

# IMiS<sup>®</sup> /StorageConnector Services REST Manual

Version 9.9.2210

**IMAGING  
SYSTEMS**  
Imaging Systems Inc.  
Brnciceva 41 G  
Ljubljana  
Slovenia

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# 1 INTRODUCTION

## 1.1 About this guide

The IMiS®/Storage Connector Services Manual describe the REST and SOAP API operations and provide examples of use.

## 1.2 Target audience

This IMiS®/Storage Connector Services manual is intended for administrators and application developers with adequate prior knowledge who require information about installing, configuring and administering the IMiS®/Storage Connector Services interface. It is also intended for integrating applications with IMiS®/ARChive Server.

## 1.3 Conventions

Various styles and methods for writing important information are used in the documentation. They are summarized in the table below.

| Types of writing         | Purpose of use  |
|--------------------------|---|
| Normal                   | Basic text in the documentation   |
| <b>Normal bold</b>       | Chapter headings in the documentation (levels 1 to 4)                       |
| <u>Normal underlined</u> | Examples  |
| “Normal”                 | The names of functions or actions in the framework of the selection options |
| <i>Normal italic</i>     | Definitions and fields of the REST interface object                         |

Table 1: Different styles used in the documentation

## 1.4 Abbreviations

The table below describes abbreviations used in the texts and illustrations:

| Abbreviation | Description   |
|--------------|---|
| API          | Application Programming Interface<br>(set of subroutine definitions, protocols and tools for building application software)           |
| BPM          | Business Process Management<br>(improving business performance outcomes and operational agility)                                      |
| CMIS         | Content Management Interoperability Services<br>(a system for customer relationship management)                                       |
| CRM          | Customer Relationship Management<br>(a system for customer relationship management)   |
| DMS          | Document Management System<br>(a system for document management)  |
| ERP          | Enterprise Resource Planning<br>(a business information system)   |
| HTTP         | Hyper Text Transfer Protocol<br>(hypertext transfer protocol)   |
| JSON         | JavaScript Object Notation<br>(data exchange format)  |
| REST         | Representational State Transfer<br>(architecture for data exchange between web services)  |
| SOAP         | Simple Object Access Protocol<br>(protocol specification for exchanging structured information in the implementation of web services) |
| URI          | Uniform Resource Identifier<br>(a string of characters that identifies a logical or physical source)                                  |
| XML          | Extensible Markup Language<br>(a markup language for hierarchically structuring data in the form of text files)                       |
| WSDL         | Web Service Description Language<br>(a document intended for describing available web services)                                       |
| OIDC         | OpenID Connect<br>(a standard for exchanging authentication identities)   |
| SAML         | Security Assertion Markup Language<br>(a standard for exchanging authentication identities)   |

Table 2: Abbreviation usage in the documentation



## 2 GENERAL

IMiS®/Storage Connector Services provide a powerful, convenient, and simple Web services API for interacting with digital archive IMiS®/ARChive Server. The advantages include ease of integration and development.

### 2.1 Integration with applications

IMiS®/Storage Connector Services API is a service layer of IMiS®/Storage Connector. IMiS®/Storage Connector is built around the widely used Java EE software environment. It contains a wealth of data objects with an easy-to-use interface (API). This makes it possible to quickly design functionally advanced applications for accessing IMiS®/ARChive Server.

A binary protocol is used for communication between the IMiS®/Storage Connector and the archive server.

IMiS®/Storage Connector Services REST lets you integrate archive server with your application using simple HTTP methods in JSON format: create (POST), retrieve/read (GET), update (PUT) and delete (DELETE).

This ensures high responsiveness and throughput of the system.

While REST API is based on open standards, you can use any web development language to access the RESTful API. It is ideal for developing mobile applications (e.g. IMiS®/mClient) or web clients (e.g. IMiS®/wClient).

The operations are performed within applications on Apache Tomcat application server and accessed via HTTP/HTTPS protocol.

IMiS®/Storage Connector Services is widely open to support another program interface (REST, CMIS, ...).

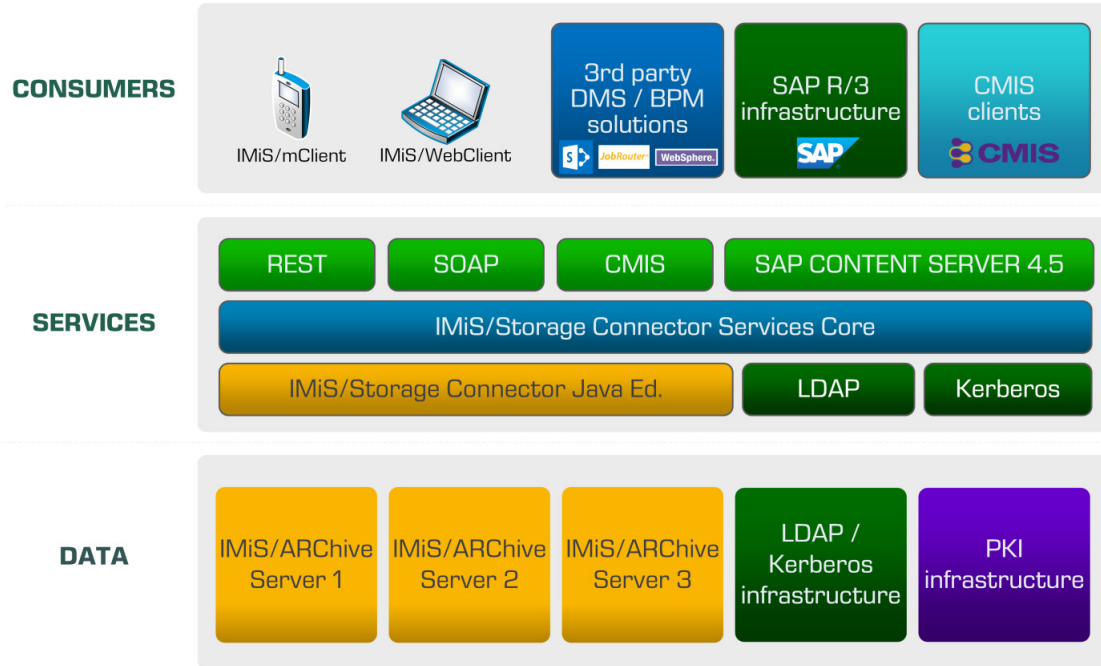


Image 1: IMiS®/Storage Connector Services architecture

IMiS®/Storage Connector Services ensure that highly loaded application servers are responsive and permeable by using advanced session pulling algorithms for archive systems. The object model ensures all necessary implementation components for applications that require streaming functionalities.

The use of advanced caching algorithms reduces the communication needs between the application and archive server, thus contributing to the greater system permeability.

## 2.2 Security

To make data exchange safe, we need to use HyperText Transfer Protocol Secure (HTTPS), which ensures application server authentication and protection of exchanged data to IMiS®/Storage Connector Services REST. System administrator implements the settings on the Apache Tomcat server.

The security of the IMiS®/ARChive Server access is set by the administrator in the application settings (see chapter [Archives settings](#)) on the individual archive.

To establish a secure connection with the IMiS®/ARChive server, the administrator sets:

- Trusted issuers of digital certificates, which the framework uses to determine the validity of remote digital certificates.
- A digital certificate with which the IMiS®/Storage Connector Services presents itself to the remote service.

More detailed information on Kerberos authentication you can find in the chapter [Kerberos in the IMiS®/ARChive Server Manual](#).

## 2.3 Product versions

Product version labeling is based on a scheme that includes the following:

- An identifier for the installation package edition (EDITION).
- Four separate numerical identifiers (MAJOR, MINOR, RELEASE, BUILD).

The example of the scheme:

*IMiS.StorageConnector.Services.EDITION.MAJOR.MINOR.RELEASE.BUILD.war*

The example of installation package names for the REST interface:

**IMiS.StorageConnector.Services.REST.9.9.2210.112.war**

The scheme consists of the name of the IMiS®/Storage Connector Services product and the following elements:

- **EDITION:** This identifier represents the product interface version. The possible values are REST and SOAP.
- **MAJOR:** This identifier represents the major product version or product generation. It rarely changes in terms of changes in the system and features. A change indicates a considerable difference in the product compared to the previously released version. This identifier has a range of values from 1 to n; it is continuous and the values can only increase.
- **MINOR:** This identifier indicates a minor version of the product. It changes more frequently than the main version in terms of changes to the system, features and fixes. A change in the minor version represents smaller changes and fixes in the framework of the same product generation (indicated by the main or major version). The range of values is from 1 to n. This number is not continuous. It resets to its base value (1) with each new MAJOR version.
- **RELEASE:** This identifier represents the time component of the product release in accordance with the YYMM scheme. MM indicates the month of the release (range of values from 01 to 12), and YY indicates the last two digits of the year.

*Example: The RELEASE identifier for a product released in October 2022 will read 2210.*

- **BUILD:** The identifier in this position indicates the unique serial number of the product build; this number never repeats. If smaller changes are made to the product within a single month, this identifier may change. In this case, all other identifiers remain the same. The range of values is from 1 to n. This number is not continuous and can only increase.

## 2.4 Functionality

The basic functionalities of the IMiS®/Storage Connector Services REST programming interface are the following:

- Access to objects on the archive server and communication via the HTTP protocol. Servers and firewalls have been optimized for traffic via HTTP/HTTPS.
- The application communicates with the IMiS®/ARChive Server via a standardized REST protocol.
- Use of web services (Web services API) for connecting applications to the IMiS®/ARChive Server.
- Use of smaller message formats that require less bandwidth and resources.
- Faster implementation of large-scale processing.
- High capacity, reliability of operation and scalability using the REST method for web services.
- A simple, efficient and customizable interface suitable for developing web and mobile applications.
- Implementation of changes during operation as they do not affect the operation of the system as a whole.
- Implementation on any platform; can be developed in any programming language.

## 2.5 New functionalities in this version

In version 9.9.2210, we have implemented the following new functionalities and improvements to the previous version 9.7.2110 of the IMiS®/Storage Connector Services REST module:

### New functionalities:

- Filtering the collection of directory entities with the option of whether the directory entity is enabled and deleted.
  - The parameters “enabled” and “deleted” have been added in GET `/archives/{archiveId}/directory.json` and GET `/archives/{archiveId}/directory/{id}/members.json`
- The parameter “filter” has been removed from the draft read.
  - The parameter “filter” is no longer applied to the callback GET `/archives/{archiveId}/drafts.json`
- The parameter “handle” has been added to reading the collection of log records for entity import and export.
  - The parameter “handle” has been added in GET `/archives/{archiveId}/log/export.json` and GET `/archives/{archiveId}/log/import.json`
- New authentication types OIDC and SAML 2.0 have been added for opening a session.
- Operations for connecting an external identity to the user profile have been added.
- Checking the service load.
  - The operation “GET `/load.json`” has been added, which returns a value from 0 to 100 that defines the index of the value available.
  - The operation “GET `/health`” has been added, which returns a response in an amount of time that depends on the service load.
- Validation of the server certificate, which is set as an address in the Proxy mode.
- The parameter “staged” has been added in the unstructured storage object.

- The parameter “exact\_match” has been added in the search.
  - The parameter “exact\_match” has been added in GET  
/archives/{archiveId}/search.json, GET  
/archives/{archiveId}/entities/{idType}:{id}/search.json and GET  
/archives/{archiveId}/entities/{id}/search.json

#### Improvements:

- Improved creation of an entity from email.
- Improved entity collection read with an identifier in Base64 format.
- Improved OpenAPI documentation.
- Improved reading of the parameter “fields”.
- Improved checking of the content size in the request for modifying the review page.
- Localization of error messages, applying the “Accept-Language” value.
  - “Accept-Language” supports the values “en” and “sl”.
- Improved opening of an entity in creation mode with a parent entity identifier in Base64 format.
- Improved localization of keys for selecting the value in entity details and templates.
  - “Accept-Language” applies the localization where suitable value keys are returned.

## 3 SYSTEM REQUIREMENTS

For successful installation and execution, the IMiS®/Storage Connector Services have the following hardware and software requirements.

### 3.1 Hardware

Practically all computers currently available on the market meet the hardware requirements for running IMiS®/Storage Connector Services.

Minimum and recommended requirements are listed below.

#### 3.1.1 Minimum requirements

Minimum requirements for IMiS®/Storage Connector Services:

- 266 MHz Intel Pentium 2 processor\*
- 200 MB RAM\*
- 150 MB of unused hard disk space \*
- Network access using the TCP/IP protocol (IPv4 or IPv6).

*Notes:*

*\* This is a brief summary of the minimum hardware requirements for Java 8 Runtime Environment as listed on Oracle's website:*

<https://www.java.com/en/download/help/sysreq.xml>

#### 3.1.2 Recommended requirements

Recommended requirements for IMiS®/Storage Connector Services:

- Intel Pentium 1 GHz processor (or faster)
- 2 GB RAM (or more)
- 250 MB of unused hard disk space
- Network access using the TCP/IP protocol (IPv4 or IPv6).



## 3.2 Software

Requirements for IMiS®/Storage Connector Services:

- Java 8 Runtime Environment version 1.8.0\_172,
- Apache Tomcat 9.0.x
- Supported operating systems: \*
  - Windows 11, 10, 8, 7 SP1, Vista SP2;
  - Windows Server 2022, 2019, 2016, 2012, 2008 R2 SP1;
  - Oracle Linux 9, 8, 7, 6, 5,5;
  - Red Hat Enterprise Linux 9, 8, 7, 6, 5,5;
  - Suse Linux Enterprise Linux 15, 12, 11, 10 SP2;
  - Ubuntu Linux 22.x, 21.x, 20.x, 19.x, 18.x, 17.x, 16.x, 15.x, ...

*Notes:*

*\* This is a brief summary of the minimum hardware requirements for Java 8 Runtime Environment as listed on Oracle's website:*

<http://www.oracle.com/technetwork/java/javase/certconfig-2095354.html>

## 4 ADMINISTRATION

The IMiS®/Storage Connector Services interface can be administered by administrators and/or application developers. Administration encompasses installation, start up, and shut down, upgrading and removal of the software.

### 4.1 Installation

Installation is performed by an administrator in an environment that meets the minimum installation requirements. The minimum requirements can be upgraded if the need to do so is foreseen.

IMiS®/Storage Connector Services REST is available as a WAR package. Installation of the package is performed manually and requires the installation of libraries to the appropriate location. To install the IMiS®/Storage Connector Services, administrator can use the Apache Tomcat server application manager (<https://tomcat.apache.org/tomcat-8.0-doc/manager-howto.html>).

#### 4.1.1 Installation process

IMiS®/Storage Connector Services installation can be performed by an administrator.

Before the beginning of the installation, administrator must shut down the Apache Tomcat server and complete the following steps:

1. Extract WAR file in the directory located at `.../webapps/<project name>/WEB-INF/config/config.xml` in the temporary directory (`.../webapps/<project name>/` if accessible from the outside).
2. Add the project to the `.../conf/server.xml` file.
3. Configure archives `.../webapps/<project name>/WEB-INF/config/config.xml`.
4. Run the Apache Tomcat server.

## 4.1.2 Archives settings

To access archive servers from the IMiS®/Storage Connector Services REST interface, the settings need to be defined. Archives are defined in the config.xml file.

The archive collection is defined in the configuration file in the XML format.

The default location of the configuration file: .../webapps/.../WEB-INF/config/config.xml

The location of the configuration file is defined in WEB-INF/web.xml with the parameter com.imis.storageconnector.services.config.

*Example of setting the location of configuration in web.xml*

```
<web-app ...>
  <context-param>
    <param-name>com.imis.storageconnector.services.config</param-name>
    <param-value>/etc/isc/config.xml</param-value>
  </context-param>
  ...
</web-app>
```

*Definition of the configuration: services / config / storage - Attributes*

|                         |         |  |
|-------------------------|---------|--|
| Id                      | String  | The unique identifier of the archive.  |
| Name                    | String  | The unique name of the archive.  |
| Description             | String  | A description of the archive (optional).   |
| Host                    | String  | The address of the archive server.   |
| Port                    | Integer | Archive server port.   |
| linksIdType             | String  | Entity identifier type (optional; default value: I).<br>The set of types<br>- C<br>- I.                    |
| defaultEntityIdEncoding | String  | Entity identifier encoding (optional). The set of values:<br>- BASE16<br>- BASE64<br>- BASE85.             |
| idleTimeout             | Integer | Session timeout (in ms). After a certain time the session is deleted (optional, default value is 300.000). |

|                                 |         |  |
|---------------------------------|---------|--|
| trustStoreFilePath              | String  | Absolute path to the jks. Sets the trust anchors used for remote certificate verification that can be set in session initialization stage (optional).          |
| trustStorePassword              | String  | Password of the trustStore (optional).   |
| remoteCertificateFingerprint    | String  | Fingerprint certificate of the archive server (optional).  |
| keyStoreFilePath                | String  | Absolute path to the jks. Sets the local certificate used for establishing an SSL connection in the local certificate selection stage (optional).              |
| keyStorePassword                | String  | Password of the keyStore (optional).   |
| certificateAlias                | String  | The alias name in the keyStore (optional).   |
| certificatePassword             | String  | Password of the localCertificateAlias (optional).  |
| defaultEntityIdType             | String  | Entity identifier type (optional; default value: ID192).<br>The set of types:<br>- ID192<br>- ID265.   |
| maxSessionsPerUser              | Integer | Maximum number of sessions per user (optional; default value: 10).   |
| maxStorageSessionsPerUser       | Integer | Maximum number of sessions per user from the service to the archive (optional; default value: 10).   |
| entityCollectionPageCount       | Integer | The number of the entity collection pages. (optional).   |
| entityCollectionPageSize        | Integer | The size of the entity collection page (optional).   |
| defaultObjectRangeSize          | Long    | Default response size when reading a part of the object (optional, default value: 2 MB).   |
| signingCertificateAlias         | String  | The alias name in the keyStore which is used for XML signatures when exporting entities (optional).  |
| signingCertificateAliasPassword | String  | The alias password which is used for XML signatures when exporting entities (optional).  |
| workDirectory                   | String  | Absolute path to the directory which is used for importing and exporting entities (optional, default value is the temporary directory).                        |
| maxIOPayloadSize                | Integer | The required maximum size of data used to communicate with the archive (optional).   |
| includeLinksInResponses         | Boolean | Specifies whether links are generated in responses; for REST only (optional, default value is true).   |
| deferredCollectionFiltering     | Boolean | Deferred collection filtering specifies that the elements in the collection are loaded on read (optional, default value: true). IMiS®/ARC 9.10.1910 or higher. |
| objectStagingEnabled            | Boolean | Specifies whether object staging is enabled (optional, default value: true).   |

|                                |         |   |
|--------------------------------|---------|---|
| defaultObjectStage             | String  | Default profile for object staging (optional).  |
| maxCollectionSize              | Integer | Defines the maximum number of elements that are returned in the reply when reading a collection (default value: 100000).  |
| bufferSize                     | Integer | The size of the temporary buffer for reading object content (optional).   |
| collectionsIdleTimeout         | Integer | Defines the time before closing collections in ms (optional). Default value: 72000000). After a specific inactivity period the collection will close automatically.   |
| defaultObjectStagingIdEncoding | String  | Encoding object identifiers (optional, default value: BASE64). The set of values:<br>- BASE16,<br>- BASE64,<br>- BASE85.  |
| defaultObjectStagingIdType     | String  | Type of object identifier (optional, default value: ID192). The set of values:<br>- ID192,<br>- ID265.  |
| maxConnectionsPerArchive       | Integer | Defines the maximum number of sockets to the archive (optional).  |
| Type                           | String  | Archive configuration type (optional, default value: ARCHIVE). The set of values:<br>- ARCHIVE,<br>- PROXY.<br>By defining the PROXY type, the restEndpoint attribute represents the REST service address to which all requests will be sent.                     |
| restEndpoint                   | String  | Defines the REST service address to which the requests will be sent. This value is required if the configuration type is PROXY. Example of a value: <a href="https://apps.imis.eu/isc/api/archives/iarc_102">https://apps.imis.eu/isc/api/archives/iarc_102</a> . |
| allowSessionOpenAddress        | Boolean | Defines whether sending the address when opening a session is allowed (optional, default value: true).  |
| restrictSessionToSingleAddress | Boolean | Defines whether session use is restricted to the IP address with which it was opened (optional, default value: false).  |

*Definition of the configuration: services/config/storage/security*

|       |        |  |
|-------|--------|--|
| entry | String | The unique identifier of the directory entity to which the permission applies. |
|-------|--------|--|

*Definition of the configuration: services/config/storage/security attributes*

|                   |         |  |
|-------------------|---------|--|
| sessionManagement | Boolean | Specifies whether the permission to read and manage the sessions of other users is enabled (default value: false). |
|-------------------|---------|--|

*Example of configuration in config.xml*

```
<services>
  <config>
    <storage
      id="IARC"
      defaultEntityIdType="ID256"
      host="iarc.imis.si:16807"
      name="iarc.imis.si"
      description="Corporate archive server"
      idleTimeout="3600000" />
    <storage
      id="IARC01"
      defaultEntityIdType="ID256"
      name="iarc01.imis.si"
      description="Corporate archive server"
      host="iarc01.imis.si:16807"
      idleTimeout="3600000" >
      <security>
        <entry sessionManagement="true">admin</entry>
      </security>
    </storage>
  </config>
</services>
```

*Definition of the configuration: services/config/storage/address*

|       |        |   |
|-------|--------|---|
| allow | String | Collection of addresses that can access the service.    |
| deny  | String | Collection of addresses that cannot access the service. |

*Definition of the configuration: services/config/storage/identityProvider attributes*

|                             |        |   |
|-----------------------------|--------|---|
| id                          | String | Unique identifier of the identity provider.   |
| name                        | String | Name of the identity provider.  |
| description                 | String | Description of the identity provider.   |
| pluginId                    | String | Unique identifier of the plug-in defined in the archive (see wAdmin / Authentication / Connectors).   |
| type                        | String | The type of identity provider.<br>The set of values:<br>- oidc,<br>- saml.  |
| clientId                    | String | Unique identifier of the client. This attribute is required when the type is "oidc".  |
| clientSecret                | String | Client key. This attribute is required when the type is "oidc".   |
| icon                        | String | The URL of the identity provider icon.  |
| authUrl                     | String | The URL for starting the external identity retrieval.<br><br><u>Example:</u><br><a href="https://accounts.google.com/o/oauth2/auth">https://accounts.google.com/o/oauth2/auth</a>   |
| tokenUrl                    | String | The URL for retrieving authentication data. This attribute is required when the type is "oidc".<br><br><u>Example:</u><br><a href="https://oauth2.googleapis.com/token">https://oauth2.googleapis.com/token</a>   |
| sessionOpenAuthorizationUrl | String | The URL called by the external identity provider during the authorization process when opening a session.<br><br><u>Example:</u><br><a href="https://apps.imis.eu/api/archives/iarc/session/google/open">https://apps.imis.eu/api/archives/iarc/session/google/open</a> |
| sessionOpenRedirectUrl      | String | The URL of the web client that gets the external identity when opening a session.<br><br><u>Example:</u><br><a href="https://apps.imis.eu/wclient/#/login">https://apps.imis.eu/wclient/#/login</a>   |

|                                    |        |  |
|------------------------------------|--------|--|
| userProfileConnectAuthorizationUrl | String | The URL called by the external identity provider during the authorization process when connecting the external identity to the user profile.<br><br><u>Example:</u><br>https://apps.imis.eu/api/archives/api/account/identity/google/link.json |
| userProfileConnectRedirectUrl      | String | The URL of the web client that gets the external identity when connecting the external identity to the user profile.<br><br><u>Example:</u><br>https://apps.imis.eu/wclient/#/archive/iarc/profile   |
| responseType                       | String | The authorization process mode.<br>The set of values:<br>- code.   |
| scope                              | String | The collection of required external identity data.<br><br><u>Example:</u> openid   |
| prompt                             | String | Defines whether an authentication and confirmation dialog appears on the external identity provider's page.  |
| grantType                          | String | The parameter value when retrieving the external identity.<br>The set of values:<br>- authorization_code   |
| audience                           | String | The unique identifier of the application that is using the external identity.  |
| issuerEntityId                     | String | The unique identifier of the SAML 2.0 external identity provider.  |
| wellKnownConfigUrl                 | String | The URL of the configuration of the external identity provider.  |
| wellKnownConfigFile                | String | The path to the configuration file of the external identity provider.  |
| wellKnownKeysFile                  | String | The path to the keys configuration file of the external identity provider.   |



|                               |         |   |
|-------------------------------|---------|---|
| hmacSecret                    | String  | The HMAC key for verifying the OIDC external identity.  |
| stateSecret                   | String  | The key for verifying the OIDC external identity, sent in the "state" parameter.  |
| clockSkew                     | Integer | Defines the value of the clock skew in the validity of the external identity in seconds.  |
| issuer                        | String  | The unique identifier of the external identity, which is used to verify the OIDC external identity.<br><br><u>Example:</u><br><a href="https://accounts.google.com">https://accounts.google.com</a>                                   |
| keyStoreFilePath              | String  | The path to the jks keyStore for signing the SAML 2.0 request for external identity authorization.  |
| keyStorePassword              | String  | The password to the jks keyStore for signing the SAML 2.0 request for external identity authorization.  |
| certificateAlias              | String  | The alias in the keyStore for signing the SAML 2.0 request for external identity authorization.   |
| certificatePassword           | String  | The certificateAlias password for signing the SAML 2.0 request for external identity authorization.   |
| certificateSignatureAlgorithm | String  | The algorithm for signing the SAML 2.0 request for external identity authorization.<br><br><u>Default value:</u><br><a href="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256">http://www.w3.org/2001/04/xmldsig-more#rsa-sha256</a> |

*Definition of the configuration: services/loadMonitor/availability attributes*

|                     |         |   |
|---------------------|---------|---|
| details             | Boolean | Defines whether the details of the load index are returned. |
| maxHealthResponseMs | Integer | The maximum response time in determining the service load.  |
| securityToken       | String  | The access key to checking the service load (optional).     |

*Definition of the configuration: services/loadMonitor/availability/index attributes*

|        |         |  |
|--------|---------|--|
| id     | String  | <p>Unique identifier of the index. The set of values:</p> <ul style="list-style-type: none"> <li>- CPU_USAGE_5S,</li> <li>- CPU_USAGE_10S,</li> <li>- CPU_USAGE_30S,</li> <li>- CPU_USAGE_1M,</li> <li>- CPU_USAGE_5M,</li> <li>- CPU_USAGE_30M,</li> <li>- CPU_USAGE_1H,</li> <li>- MEMORY_USAGE_5S,</li> <li>- MEMORY_USAGE_10S,</li> <li>- MEMORY_USAGE_30S,</li> <li>- MEMORY_USAGE_1M,</li> <li>- MEMORY_USAGE_5M,</li> <li>- MEMORY_USAGE_30M,</li> <li>- MEMORY_USAGE_1H,</li> <li>- REQUEST_COUNT_5S,</li> <li>- REQUEST_COUNT_10S,</li> <li>- REQUEST_COUNT_30S,</li> <li>- REQUEST_COUNT_1M,</li> <li>- REQUEST_COUNT_5M,</li> <li>- REQUEST_COUNT_30M,</li> <li>- REQUEST_COUNT_1H,</li> <li>- REQUEST_DURATION_5S,</li> <li>- REQUEST_DURATION_10S,</li> <li>- REQUEST_DURATION_30S,</li> <li>- REQUEST_DURATION_1M,</li> <li>- REQUEST_DURATION_5M,</li> <li>- REQUEST_DURATION_30M,</li> <li>- REQUEST_DURATION_1H.</li> </ul> |
| weight | Integer | Defines the weight when calculating the load index.  |
| min    | Integer | Defines the minimum value of the number of requests when calculating the load index.   |

*Example of configuration in config.xml*

```

<services>
  <config>
    <storage
      id="IARC"
      defaultEntityIdType="ID256"
      host="iarc.imis.si:16807"
      name="iarc.imis.si"
      description="Corporate archive server"
      idleTimeout="3600000" />
    <storage
      id="IARC01"
      defaultEntityIdType="ID256"
      name="iarc01.imis.si"
      description="Corporate archive server"
      host="iarc01.imis.si:16807"
      idleTimeout="3600000" >
      <security>
        <entry sessionManagement="true">admin</entry>
      </security>
      <address>
        <allow>127.0.0.1</allow>
        <allow>127.0.0.2</allow>
        <deny>127.0.0.3</deny>
        <deny>127.0.0.4</deny>
      </address>
      <identityProvider
        id="google.com-oidc"
        type="oidc"
        name="Google (OpenID Connect)"
        description="Google Inc. via OpenID Connect"
        pluginId="24fd1468-c867-4257-8ab2-6cf5cbea960a"
        issuer="https://accounts.google.com"
        authUrl="https://accounts.google.com/o/oauth2/auth"
        tokenUrl="https://oauth2.googleapis.com/token"
        clientId="71.googleusercontent.com"
        clientSecret="MUHyTtpMjaK"

        sessionOpenAuthorizationUrl="https://apps.imis.eu/api/archives/IARC01/session/google.com-oidc/open"
        sessionOpenRedirectUrl="https://apps.imis.eu/wclient/ #/login"
        userProfileConnectAuthorizationUrl="https://apps.imis.eu/api/archives/IARC01/account/identity/google.com-oidc/link.json"
        userProfileConnectRedirectUrl="https://apps.imis.eu/wclient/#/archive/IARC01/profile"
        responseType="code"
        scope="openid"
        prompt=""
        grantType="authorization_code"
        audience="71.googleusercontent.com"
        icon="https://lh3.googleusercontent.com/COxitqgJrlsJnIDe8-jiKhxDx1FrYbtRHKJ9z_hELisAlapwE9LUPh6fcXIfb5vwpbM14x19H9TRFPc5N008Sb3VSgIBrFRyW6cUA"
        wellKnownConfigUrl="https://accounts.google.com/.well-known/openid-configuration"
        hmacSecret="5f0774732d88"
        stateSecret="a7ab-109b070a1f09"
        clockSkew="60" />
      </storage>
    </config>
  <loadMonitor>
    <availability details="true" maxHealthResponseMs="5000" securityToken="5f0884732d88">
      <index id="CPU_USAGE_30S" weight="1"/>
      <index id="MEMORY_USAGE_30S" weight="1"/>
      <index id="REQUEST_COUNT_5S" weight="5" min="1"/>
      <index id="REQUEST_DURATION_5s" weight="1"/>
    </availability>
  </loadMonitor>
</services>

```

## 4.2 Start up and shut down

IMiS®/Storage Connector Services start through the start of the Apache Tomcat server. The interface shuts down by the Apache Tomcat server shut down.

## 4.3 Upgrading

If an administrator would like to upgrade a past version of the IMiS®/Storage Connector Services interface to a newer version, follow the upgrade process described below or use the Apache Tomcat server application manager (<https://tomcat.apache.org/tomcat-8.0-doc/manager-howto.html>).

### 4.3.1 Upgrading process

Before starting upgrading the administrator must shut down the Apache Tomcat server.

When using the project configuration:

1. Make a copy of the current configuration located at `.../webapps/<project name>/WEB-INF/config/config.xml` in the temporary directory `.../webapps/<project name>/` (if accessible from the outside).
2. Remove directory `.../webapps/<project name>`.
3. Expand `.war` file in the directory `.../webapps/<project name>`.
4. Replace `.../webapps/<project name>/WEB-INF/config/config.xml` with the previous file (see Step 1).
5. Run the server.

When using the path to the configuration file:

1. As administrator save the path to the configuration located at `.../webapps/<project name>/WEB-INF/web.xml`
2. Delete directory `.../webapps/<project name>`.
3. Expand `.war` file in the directory `.../webapps/<project name>`.
4. In `.../webapps/<project name>/WEB-INF/web.xml` set the path to the configuration file.
5. Run the server.

## 4.4 Removal

Before removal the IMiS®/Storage Connector Services administrator must shut down the Apache Tomcat server and complete the following steps:

1. Remove directory `.../webapps/<project name>`.
2. Remove project from the `.../conf/server.xml` file.
3. Run the Apache Tomcat server.

## 5 OBJECTS

REST (Representational State Transfer) is a set of architectural principles for designing web applications. Each resource (data entity) in the application is presented as a web service with a unique URL address.

For accessing and modifying resources, RESTful Web services use a uniform and predefined set of standard HTTP stateless methods: create (POST), retrieve/read (GET), update (PUT) and delete (DELETE). HTTP requests made to resources (data entries) via URI paths, will elicit a response that may be in JSON or some other defined format.

REST is often used in mobile applications, social networking web sites, mashup tools, APIs and automated business processes. It is also chosen as the architecture for services that are exposed to the internet (most cloud providers).

### 5.1 Operations

All supported REST operations are described below.

#### Authentication

[POST archives/{archiveld}/session/open.json](#)

[POST archives/{archiveld}/session/close.json](#)

#### Read archives

[GET archives.json](#)

[GET archives/{archiveld}.json](#)

#### Read directory

[GET archives/{archiveld}/directory.json](#)

[GET archives/{archiveld}/directory/{id}.json](#)

[GET archives/{archiveld}/directory/{id}/avatar](#)

[GET archives/{archiveld}/directory/{id}/members.json](#)

## Entity management

[GET archives/{archiveld}/create.json](#)

[GET archives/{archiveld}/entities.json](#)

[GET archives/{archiveld}/entities/{id}.json](#)

[GET archives/{archiveld}/entities/{id}/audit\\_log.csv](#)

[GET archives/{archiveld}/entities/{id}/audit\\_log.json](#)

[GET archives/{archiveld}/entities/{id}/audit\\_log.xml](#)

[GET archives/{archiveld}/entities/{id}/close.json](#)

[GET archives/{archiveld}/entities/{id}/create.json](#)

[GET archives/{archiveld}/entities/{id}/edit.json](#)

[GET archives/{archiveld}/entities/{id}/entities.json](#)

[GET archives/{archiveld}/entities/{id}/export.asice](#)

[GET archives/{archiveld}/entities/{id}/nonrepudiation.json](#)

[GET archives/{archiveld}/entities/{id}/nonrepudiation.zip](#)

[GET archives/{archiveld}/entities/{id}/open.json](#)

[GET archives/{archiveld}/entities/{id}/property/{propertyId}.json](#)

[GET archives/{archiveld}/entities/{id}/property/{propertyId}](#)

[GET archives/{archiveld}/entities/{id}/property/{propertyId}/index](#)

[GET archives/{archiveld}/entities/{id}/save\\_log.json](#)

[GET archives/{archiveld}/entities/{id}/save\\_log.zip](#)

[GET archives/{archiveld}/entities/{id}/stub.json](#)

[GET archives/{archiveld}/entities/{id}/stub/property/{propertyId}.json](#)

[GET archives/{archiveld}/entities/{id}/stub/property/{propertyId}](#)

[GET archives/{archiveld}/entities/{id}/stub/property/{propertyId}/index](#)

[GET archives/{archiveld}/entities/{id}/transfer\\_details/audit\\_log](#)

[GET archives/{archiveld}/entities/{id}/transfer\\_details/evidence](#)

[POST archives/{archiveld}.json](#)

[POST archives/{archiveld}/entities/{id}.json](#)

[POST archives/{archiveld}/entities/{id}/create/email.json](#)

[POST archives/{archiveld}/entities/{id}/email.json](#)

[POST archives/{archiveld}/entities/{id}/export.zip](#)

[POST archives/{archiveld}/entities/{id}/property/{propertyId}](#)

[POST archives/{archiveld}/entities/{id}/retention/policies.json](#)

[POST archives/{archiveld}/entities/{id}/retention/disposition\\_holds.json](#)

[PUT archives/{archiveld}/entities/{id}.json](#)

[PUT archives/{archiveld}/entities/{id}/classification\\_code.json](#)

[PUT archives/{archiveld}/entities/{id}/move.json](#)

[PUT archives/{archiveld}/entities/{id}/move/{parentId}.json](#)

[PUT archives/{archiveld}/entities/{id}/property/{propertyId}/index](#)

[PUT archives/{archiveld}/entities/{id}/retention/policies.json](#)

[PUT archives/{archiveld}/entities/{id}/retention/policies/{idRetentionPolicy}.json](#)

[PUT archives/{archiveld}/entities/{id}/status.json](#)

[PUT archives/{archiveld}/entities/{id}/security\\_class.json](#)

[DELETE archives/{archiveld}/entities/{id}.json](#)

[DELETE archives/{archiveld}/entities/{id}/property/{propertyId}/index](#)

[DELETE archives/{archiveld}/entities/{id}/retention/disposition\\_holds/{idDispositionHold}.json](#)

[DELETE archives/{archiveld}/entities/{id}/retention/policies/{idRetentionPolicy}.json](#)

**Entity content management**

[GET archives/{archiveId}/entities/{id}/object](#)  
[GET archives/{archiveId}/entities/{id}/object/stream](#)  
[GET archives/{archiveId}/entities/H:{id}/object/stream/open.json](#)  
[GET archives/{archiveId}/entities/H:{id}/object/stream/{objectHandle}](#)  
[GET archives/{archiveId}/entities/H:{id}/object/stream/{objectHandle}/close.json](#)  
[GET archives/{archiveId}/entities/{id}/object.json](#)  
[GET archives/{archiveId}/entities/{id}/objects.json](#)  
[GET archives/{archiveId}/entities/{id}/objects/{objectId}](#)  
[GET archives/{archiveId}/entities/{id}/objects/{objectId}/stream](#)  
[GET archives/{archiveId}/entities/H:{id}/objects/{objectId}/stream/open.json](#)  
[GET archives/{archiveId}/entities/H:{id}/objects/{objectId}/stream/{objectHandle}](#)  
[GET archives/{archiveId}/entities/H:{id}/objects/{objectId}/stream/{objectHandle}/close.json](#)  
[GET archives/{archiveId}/entities/{id}/objects/{objectId}.json](#)  
[GET archives/{archiveId}/entities/{id}/objects/{id}/objects.json](#)  
[POST archives/{archiveId}/entities/{entityIdKind}:{id}/objects](#)  
[POST archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{id}/detach.json](#)  
[POST archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{id}/manage.json](#)  
[PUT archives/{archiveId}/entities/{id}/object](#)  
[PUT archives/{archiveId}/entities/{id}/objects/{id}](#)  
[PUT archives/{archiveId}/entities/{id}/objects/{objectId}/move/{parentId}.json](#)  
[PUT archives/{archiveId}/entities/{id}/objects/{objectId}/copy/{parentId}.json](#)  
[DELETE archives/{archiveId}/entities/{id}/object.json](#)  
[DELETE archives/{archiveId}/entities/{id}/objects/{id}.json](#)

**Uploading content by parts**

[POST archives/{archiveId}/entities/H:{id}/create\\_sessions](#)  
[POST archives/{archiveId}/entities/H:{id}/create\\_sessions/{createSessionId}/save.json](#)  
[PUT archives/{archiveId}/entities/H:{id}/create\\_sessions/{createSessionId}](#)  
[DELETE archives/{archiveId}/entities/H:{id}/create\\_sessions/{createSessionId}.json](#)

**Entity access control management**

[GET archives/{archiveId}/entities/{id}/access.json](#)  
[GET archives/{archiveId}/entities/{id}/acl.json](#)  
[POST archives/{archiveId}/entities/{id}/acl.json](#)  
[PUT archives/{archiveId}/entities/{id}/acl/{entryId}.json](#)  
[PUT archives/{archiveId}/entities/{id}/acl/{propertyName}/{entryId}.json](#)  
[DELETE archives/{archiveId}/entities/{id}/acl/{entryId}.json](#)  
[DELETE archives/{archiveId}/entities/{id}/acl/{propertyName}/{entryId}.json](#)

**Entity search**

[GET archives/{archiveId}/entities/{id}/search.json](#)  
[GET archives/{archiveId}/search.json](#)



## Reference management

[GET archives/{archiveId}/entities/{id}/references.json](#)  
[GET archives/{archiveId}/entities/{id}/references/{referenceId}.json](#)  
[POST archives/{archiveId}/entities/{id}/references.json](#)  
[PUT archives/{archiveId}/entities/{id}/references/{referenceId}.json](#)  
[DELETE archives/{archiveId}/entities/{id}/references/{referenceId}.json](#)

## Template read

[GET archives/{archiveId}/templates.json](#)  
[GET archives/{archiveId}/templates/{id}.json](#)

## User profile management

[GET archives/{archiveId}/account.json](#)  
[GET archives/{archiveId}/account/avatar](#)  
[POST archives/{archiveId}/account/avatar](#)  
[PUT archives/{archiveId}/account.json](#)  
[PUT archives/{archiveId}/account/password.json](#)  
[GET archives/{archiveId}/account/data/{dataId}](#)  
[POST archives/{archiveId}/account/data/{dataId}](#)  
[DELETE archives/{archiveId}/account/data/{dataId}](#)  
[PUT archives/{archiveId}/account/identity/link.json](#)  
[PUT archives/{archiveId}/account/identity/unlink.json](#)

## Versioning and draft management

[GET archives/{archiveId}/drafts.json](#)  
[GET archives/{archiveId}/drafts/{id}.json](#)  
[GET archives/{archiveId}/drafts/{id}/close.json](#)  
[GET archives/{archiveId}/drafts/{id}/edit.json](#)  
[GET archives/{archiveId}/drafts/{id}/open.json](#)  
[GET archives/{archiveId}/drafts/{id}/property/{propertyId}.json](#)  
[GET archives/{archiveId}/drafts/{id}/property/{propertyId}](#)  
[GET archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}](#)  
[GET archives/{archiveId}/drafts/{id}/stub.json](#)  
[GET archives/{archiveId}/drafts/{id}/stub/property/{propertyId}.json](#)  
[GET archives/{archiveId}/drafts/{id}/stub/property/{propertyId}](#)  
[GET archives/{archiveId}/drafts/{id}/stub/property/{propertyId}/{index}](#)  
[GET archives/{archiveId}/entities/{id}/versions.json](#)  
[POST archives/{archiveId}/drafts/{id}/discard.json](#)  
[POST archives/{archiveId}/drafts/{id}/check\\_in.json](#)  
[POST archives/{archiveId}/drafts/{id}/property/{propertyId}](#)  
[POST archives/{archiveId}/entities/{id}/check\\_out.json](#)  
[PUT archives/{archiveId}/drafts/{id}.json](#)  
[PUT archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}](#)  
[DELETE archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}](#)

## Draft content management

GET archives/{archiveId}/drafts/{id}/object  
[GET archives/{archiveId}/drafts/{id}/object/stream](#)  
[GET archives/{archiveId}/drafts/H:{id}/object/stream/open.json](#)  
[GET archives/{archiveId}/drafts/H:{id}/object/stream/{objectHandle}](#)  
[GET archives/{archiveId}/drafts/H:{id}/object/stream/{objectHandle}/close.json](#)  
GET archives/{archiveId}/drafts/{id}/objects/{objectId}  
[GET archives/{archiveId}/drafts/{id}/objects/{objectId}/stream](#)  
[GET archives/{archiveId}/drafts/H:{id}/objects/{objectId}/stream/open.json](#)  
[GET archives/{archiveId}/drafts/H:{id}/objects/{objectId}/stream/{objectHandle}](#)  
[GET archives/{archiveId}/drafts/H:{id}/objects/{objectId}/stream/{objectHandle}/close.json](#)  
POST archives/{archiveId}/drafts/{id}/objects  
PUT archives/{archiveId}/drafts/{id}/object  
PUT archives/{archiveId}/drafts/{id}/objects/{objectId}  
DELETE archives/{archiveId}/drafts/{id}/object.json  
DELETE archives/{archiveId}/drafts/{id}/objects/{objectId}.json

## Draft access rights management

GET archives/{archiveId}/drafts/{id}/access.json  
GET archives/{archiveId}/drafts/{id}/acl.json  
POST archives/{archiveId}/drafts/{id}/acl.json  
PUT archives/{archiveId}/drafts/{id}/acl/{entryId}.json  
PUT archives/{archiveId}/drafts/{id}/acl/{propertyName}/{entryId}.json  
DELETE archives/{archiveId}/drafts/{id}/acl/{entryId}.json  
DELETE archives/{archiveId}/drafts/{id}/acl/{propertyName}/{entryId}.json

## Delete and dispose entity read

GET archives/{archiveId}/deleted.json  
GET archives/{archiveId}/deleted/{id}.json  
GET archives/{archiveId}/deleted/{id}/audit\_log.json  
GET archives/{archiveId}/deleted/{id}/entities.json  
GET archives/{archiveId}/disposed.json  
GET archives/{archiveId}/disposed/{id}.json  
GET archives/{archiveId}/disposed/{id}/audit\_log.json  
GET archives/{archiveId}/disposed/{id}/entities.json

## Retention policies read

GET archives/{archiveId}/disposition\_holds.json  
GET archives/{archiveId}/disposition\_holds/{id}.json  
GET archives/{archiveId}/disposition\_holds/{id}/audit\_log.json  
GET archives/{archiveId}/retention\_policies.json  
GET archives/{archiveId}/retention\_policies/{id}.json  
GET archives/{archiveId}/retention\_policies/{id}/audit\_log.json  
[GET archives/{archiveId}/retention\\_policies/{id}/objects.json](#)  
GET archives/{archiveId}/retention\_policies/{id}/objects/{objectId}  
GET archives/{archiveId}/retention\_policies/{id}/objects/{objectId}.json

## Import and export log read

GET archives/{archiveId}/log/export.json

GET archives/{archiveId}/log/import.json

## Review

GET archives/{archiveId}/reviews.json

GET archives/{archiveId}/reviews/{id}.json

GET archives/{archiveId}/reviews/{id}/audit\_log.csv

GET archives/{archiveId}/reviews/{id}/audit\_log.json

GET archives/{archiveId}/reviews/{id}/audit\_log.xml

GET archives/{archiveId}/reviews/{id}/handle/close.json

GET archives/{archiveId}/reviews/{id}/handle/edit.json

GET archives/{archiveId}/reviews/{id}/handle/open.json

GET archives/{archiveId}/reviews/{id}/items.json

GET archives/{archiveId}/reviews/{id}/items.csv

GET archives/{archiveId}/reviews/{id}/items.xml

GET archives/{archiveId}/reviews/{id}/items/{itemId}.json

GET archives/{archiveId}/reviews/{id}/items/{itemId}.csv

GET archives/{archiveId}/reviews/{id}/items/{itemId}.xml

GET archives/{archiveId}/reviews/{id}/nonrepudiation.zip

[GET archives/{archiveId}/reviews/{id}/save\\_log.json](#)

[GET archives/{archiveId}/reviews/{id}/save\\_log.zip](#)

GET archives/{archiveId}/reviews/{id}/stub.json

GET archives/{archiveId}/reviews/{id}/template.json

[POST archives/{archiveId}/reviews.json](#)

POST archives/{archiveId}/reviews/{id}/create.json

POST archives/{archiveId}/reviews/{id}/confirm\_transfer

[POST archives/{archiveId}/reviews/{id}/transfer.zip](#)

[PUT archives/{archiveId}/reviews/{id}.json](#)

[PUT archives/{archiveId}/reviews/{id}/items.json](#)

[PUT archives/{archiveId}/reviews/{id}/items.csv](#)

[PUT archives/{archiveId}/reviews/{id}/items.xml](#)

[PUT archives/{archiveId}/reviews/{id}/items/{itemId}.json](#)

[PUT archives/{archiveId}/reviews/{id}/items/{itemId}.csv](#)

[PUT archives/{archiveId}/reviews/{id}/items/{itemId}.xml](#)

[PUT archives/{archiveId}/reviews/{id}/items/{itemId}/entity/{entityId}.json](#)

## Review access control management

[GET archives/{archiveId}/reviews/{id}/access.json](#)

GET archives/{archiveId}/reviews/{id}/acl.json

POST archives/{archiveId}/reviews/{id}/acl.json

PUT archives/{archiveId}/reviews/{id}/acl/{entryId}.json

PUT archives/{archiveId}/reviews/{id}/acl/{propertyName}/{entryId}.json

DELETE archives/{archiveId}/reviews/{id}/acl/{entryId}.json

DELETE archives/{archiveId}/reviews/{id}/acl/{propertyName}/{entryId}.json

## Create entities

[POST archives/{archiveId}/batch/create.json](#)

[POST archives/{archiveId}/entities/{id}/batch/create.json](#)

## Legacy object archival management

[GET archives/{archiveId}/objects/{id}](#)

[GET archives/{archiveId}/objects/{id}.json](#)

[GET archives/{archiveId}/objects/{id}/handle/open.json](#)

[GET archives/{archiveId}/objects/{id}/handle/close.json](#)

[GET archives/{archiveId}/objects/{id}/stream](#)

[PUT archives/{archiveId}/objects/{id}.json](#)

[POST archives/{archiveId}/objects](#)

[DELETE archives/{archiveId}/objects/{id}.json](#)

## Audit log read

[POST archives/{archiveId}/audit\\_log.json](#)

[POST archives/{archiveId}/audit\\_log.csv](#)

[POST archives/{archiveId}/audit\\_log.xml](#)

## Create reports

[GET archives/{archiveId}/reports.json](#)

[GET archives/{archiveId}/entities/{id}/reports.json](#)

## User sessions management

[GET archives/{archiveId}/sessions.json](#)

[POST archives/{archiveId}/sessions/close.json](#)

## Open entities management

[GET archives/{archiveId}/cache/entities.json](#)

[POST archives/{archiveId}/cache/clear.json](#)

## External identity authentication

[GET archives/{archiveId}/session/{authId}/open](#)

[POST archives/{archiveId}/session/{authId}/open](#)

[GET archives/{archiveId}/account/identity/{authId}/link.json](#)

[POST archives/{archiveId}/account/identity/{authId}/link.json](#)

## Service load

[GET load.json](#)

[GET health](#)

## 5.2 Types

All supported REST objects in JSON format are described below.

### 5.2.1 AccessResponse

Object provides information on entity access rights.

*Definition*

```
{
  "rights" : {...}
}
```

*Fields*

|        |                              |                                 |
|--------|------------------------------|---------------------------------|
| rights | <a href="#">EntityRights</a> | Directory entity access rights. |
|--------|------------------------------|---------------------------------|

### 5.2.2 Account

Object provides information on user profile.

*Definition*

```
{
  "created" : "String - DateTime",
  "created_by" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
    "type" : "String"
  },
  "deleted" : false,
  "description" : "String",
  "description_editable" : true,
  "email" : "String",
  "email_editable" : true,
  "enabled" : true,
  "first_name" : "String",
  "first_name_editable" : true,
  "icon_editable" : true,
  "icon_url" : "String",
  "id" : "String",
  "identity_linking_enabled" : true,
  "last_name" : "String",
  "last_name_editable" : true,
  "modified" : "String - DateTime",
  "modified_by" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
    "type" : "String"
  },
  "security_class_level" : "String",
  "type" : "String - GROUP/USER"
}
```

*Fields*

|                           |  |   |
|---------------------------|--|---|
| created                   | <a href="#">String - DateTime</a>        | Date and time of the user profile creation.   |
| created_by                | <a href="#">DirectoryEntityLink</a>      | The directory entity who last created the user profile.   |
| deleted                   | Boolean                                  | Specifies whether the user profile is deleted.  |
| description               | String                                   | A description of the user profile.  |
| description_editable      | Boolean                                  | Specifies whether the description is editable.  |
| email                     | String                                   | Email address of the user profile.  |
| email_editable            | Boolean                                  | Specifies whether the email is editable.  |
| enabled                   | Boolean                                  | Specifies whether the user profile is enabled.  |
| first_name                | String                                   | First name of the user profile.   |
| first_name_editable       | Boolean                                  | Specifies whether the first name is editable.   |
| icon_editable             | Boolean                                  | Specifies whether the icon is editable.   |
| icon_url                  | String                                   | Link to the icon (optional).  |
| id                        | String                                   | The unique identifier of the user profile.  |
| identity_linking_enabled  | Boolean                                  | Specifies whether the external identities of the user profile are manageable.   |
| last_name                 | String                                   | Last name of the user profile.  |
| last_name_editable        | Boolean                                  | Specifies whether the last name is editable.  |
| modified                  | <a href="#">String - DateTime</a>        | Date and time of the user profile change.   |
| modified_by               | <a href="#">DirectoryEntityLink</a>      | The directory entity who last modified the user profile.  |
| security_class_level      | String                                   | The security class level of the directory entity.   |
| subject_issuer_identities | <a href="#">SubjectIssuerIdentity []</a> | The collection of linked external identities of the user profile.   |
| type                      | String                                   | User profile type. The set of values:<br>- GROUP: directory entity is a group.<br>- USER: directory entity is a user. |

### 5.2.3 AccountIdentityLinkRequest

Object provides information on modifications to the user profile.

#### Definition

```
{
  "id" : "String",
  "payload" : "String"
}
```

#### Fields

|         |        |  |
|---------|--------|--|
| id      | String | Unique identifier of the external identity provider. |
| payload | String | External identity.                                   |

### 5.2.4 AccountIdentityUnlinkRequest

Object provides information on modifications to the user profile.

#### Definition

```
{
  "issuer" : "String",
  "subject" : "String"
}
```

#### Fields

|         |        |                               |
|---------|--------|-------------------------------|
| issuer  | String | External identity issuer.     |
| subject | String | External identity identifier. |

### 5.2.5 AccountResponse

Object provides information on user profile.

#### Definition

```
{
  "directory_entity" : {
    "id" : "String",
    ...
  }
}
```

#### Fields

|                  |                         |  |
|------------------|-------------------------|--|
| directory_entity | <a href="#">Account</a> | Object provides information on directory entity. |
|------------------|-------------------------|--|

## 5.2.6 AccountUpdateRequest

Object provides request on the user profile update.

### Definition

```
{
  "description" : "String",
  "email" : "String",
  "first_name" : "String",
  "last_name" : "String"
}
```

### Fields

|             |        |   |
|-------------|--------|---|
| description | String | A description of the user profile (optional). |
| email       | String | Email address of the user profile (optional). |
| first_name  | String | First name of the user profile (optional).    |
| last_name   | String | Last name of the user profile (optional).     |

## 5.2.7 ACLEffective

Object provides information on effective access rights.

### Definition

```
{
  "rights" : {
    "read_access" : true,
    "write_access" : true,
    "delete_access" : true,
    ...
  }
}
```

### Fields

|        |                              |                          |
|--------|------------------------------|--------------------------|
| rights | <a href="#">EntityRights</a> | Effective access rights. |
|--------|------------------------------|--------------------------|

## 5.2.8 Archive

Object provides information on archive server.

### Definition

```
{
  "id" : "String",
  "name" : "String",
  "description" : "String",
  "host" : "String",
  "uri" : "String - URI",
  "identity_providers" : [...]
}
```



*Fields*

|                    |                                     |  |
|--------------------|-------------------------------------|--|
| id                 | String                              | The unique identifier of the archive server.             |
| name               | String                              | The name of the archive server.                          |
| description        | String                              | A description of the archive server.                     |
| host               | String                              | The address of the archive server.                       |
| uri                | String                              | The unique identifier of the link to the archive server. |
| identity_providers | <a href="#">IdentityProvider []</a> | The collection of external identity providers.           |

**5.2.9 ArchiveAdministrationAccess**

Object provides information on the access to the administration folders.

*Definition*

```
{
  "create_reviews " : true,
  "deleted_entities" : true,
  "deleted_queue" : true,
  "disposed_entities" : true,
  "export_logs" : true,
  "import_logs" : true,
  "reviews" : true
}
```

*Fields*

|                   |         |  |
|-------------------|---------|--|
| create_reviews    | Boolean | Specifies whether the creation of reviews is enabled.                          |
| deleted_entities  | Boolean | Specifies whether the access to deleted entities is enabled.                   |
| deleted_queue     | Boolean | Specifies whether the access to entities in the queue for deletion is enabled. |
| disposed_entities | Boolean | Specifies whether the access to disposed entities is enabled.                  |
| export_logs       | Boolean | Specifies whether the access to export logs is enabled.                        |
| import_logs       | Boolean | Specifies whether the access to import logs is enabled.                        |
| reviews           | Boolean | Specifies whether the access to reviews is enabled.                            |

**5.2.10 ArchiveCapabilities**

Object provides information on the user roles.

*Definition*

```
{
  "audit_query" : true,
  "content_management" : true,
  "draft_management" : true,
  "import_export" : true,
  "reports" : true
}
```

*Fields*

|                    |         |   |
|--------------------|---------|---|
| audit_query        | Boolean | Allows access to the audit log.   |
| content_management | Boolean | Enables content management.   |
| draft_management   | Boolean | Enables draft management.   |
| import_export      | Boolean | Enables import and export of the entities.  |
| reports            | Boolean | The role allows: <ul style="list-style-type: none"> <li>- Display system reports on export and import.</li> <li>- Display system reports on user access, folders, documents, content and retention policies.</li> <li>- Print information on classes, folders and documents.</li> <li>- Print classes and folders.</li> </ul> |

**5.2.11 ArchiveFeatures**

Object provides information on the archive functionalities.

*Definition*

```
{
  "content_convert" : true,
  "content_detach" : true,
  "content_index" : true,
  "content_move" : true,
  "create_drafts" : true
}
```

*Fields*

|                 |         |  |
|-----------------|---------|--|
| content_convert | Boolean | Enables conversion of the entity content object.     |
| content_detach  | Boolean | Enables detachment of the entity content object.     |
| content_index   | Boolean | Enables indexing of the entity content object.       |
| content_move    | Boolean | Enables moving content object to another entity.     |
| create_drafts   | Boolean | Specifies whether the creation of drafts is enabled. |

## 5.2.12 ArchiveResponse

Object provides information on archive.

### Definition

```
{
  "api_version": 6,
  "archive" : {
    "administration_access": {
      "create_reviews " : true,
      "deleted_entities" : true,
      "deleted_queue" : true,
      "disposed_entities" : true,
      "export_logs" : true,
      "import_logs" : true,
      "reviews" : true
    },
    "capabilities": {
      "audit_query": true,
      "content_management" : true,
      "draft_management" : true,
      "content_management": true,
      "import_export": true,
      "reports": true
    },
    "description": "String",
    "effective_rights": { // Optional
      "read_access": true,
      "write_access": true,
      "move_access": true,
      "delete_access": true,
      "change_rights": true,
      "create_sub_entities": true,
      "create_references": true,
      "change_security_class": true,
      "change_status": true,
      "change_retention": true
    },
    "features": {
      "content_convert": true,
      "content_detach": true,
      "content_index": true,
      "content_move": true,
      "create_drafts" : true
    },
    "host": "String",
    "identity_providers": [...],
    "links": [{
      "type": "deleted",
      "uri": "String - URI"
    }, {
      "type": "disposed",
      "uri": "String - URI"
    }, {
      "type": "disposition_holds",
      "uri": "String - URI"
    }, {
      "type": "directory",
      "uri": "String - URI"
    }, {
      "type": "drafts",
      "uri": "String - URI"
    }, {
      "type": "entities",
      "uri": "String - URI"
    }, {
      "type": "log:export",
      "uri": "String - URI"
    }
  ]
}
```

```

    }, {
      "uri": "String - URI"
    }, {
      "type": "retention_policies",
      "uri": "String - URI"
    }, {
      "type": "reviews",
      "uri": "String - URI"
    }, {
      "type": "search",
      "uri": "String - URI"
    }, {
      "type": "templates",
      "uri": "String - URI"
    }
  ],
  "name" : "String",
  "secure" : true,
  "service_name" : "String",
  "service_version" : 0,
  "audit_log_required" : false
}
}

```

### Fields

|                       |   |   |
|-----------------------|---|---|
| api_version           | Integer                                     | The version of the REST interface.  |
| administration_access | <a href="#">ArchiveAdministrationAccess</a> | Object provides information on the access to the administration system folders.   |
| audit_log_required    | Boolean                                     | Specifies whether the audit log reason is required.   |
| capabilities          | <a href="#">ArchiveCapabilities</a>         | Object provides information on user roles.  |
| description           | String                                      | A description of the archive server.  |
| effective_rights      | <a href="#">EntityRights</a>                | Rights of current user on the archive.  |
| features              | <a href="#">ArchiveFeatures</a>             | Object provides information on archive's functionalities.   |
| host                  | String                                      | The address of the archive server.  |
| identity_providers    | <a href="#">IdentityProvider []</a>         | The collection of external identity providers.  |
| links                 | <a href="#">Link []</a>                     | Links to the objects on archive server.<br>The set of links:<br>- disposition_holds: Link to the disposition hold.<br>- directory: Link to the directory entities.<br>- entities: Link to the archive root entities.<br>- retention_policies: Link to the retention policies.<br>- search: Link to the entities search on the archive server root.<br>- templates: Link to the templates. |
| name                  | String                                      | The name of the archive server.   |

| secure          | Boolean   | Specifies whether the iarcs secure protocol is used between the interface and archive server.   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
|-----------------|-----------|---|-------|---------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----------|
| service_name    | String    | The name of the archive service.  |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| service_version | Long      | The version of the archive service.<br>The set of values: <table border="1"> <thead> <tr> <th>Value</th> <th>Version</th> </tr> </thead> <tbody> <tr> <td>590</td> <td>9</td> </tr> <tr> <td>670</td> <td>9.7</td> </tr> <tr> <td>685</td> <td>9.8</td> </tr> <tr> <td>690</td> <td>9.9</td> </tr> <tr> <td>695</td> <td>9.10.1904</td> </tr> <tr> <td>700</td> <td>9.10.1910</td> </tr> </tbody> </table> | Value | Version | 590 | 9 | 670 | 9.7 | 685 | 9.8 | 690 | 9.9 | 695 | 9.10.1904 | 700 | 9.10.1910 |
| Value           | Version   |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 590             | 9         |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 670             | 9.7       |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 685             | 9.8       |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 690             | 9.9       |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 695             | 9.10.1904 |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |
| 700             | 9.10.1910 |   |       |         |     |   |     |     |     |     |     |     |     |           |     |           |

### 5.2.13 ArchivesResponse

Object provides information on archives.

#### Definition

```
{
  "api_version": 7,
  "archives": [{
    "id" : "String",
    "name" : "String",
    "description" : "String",
    "host" : "String",
    "uri" : "String - URI"
  }, {
    "id" : "String",
    "name" : "String",
    "description" : "String",
    "host" : "String",
    "uri" : "String - URI"
  }
],
  "version": "9.6.2010.107"
}
```

#### Fields

|             |                            |                                      |
|-------------|----------------------------|--------------------------------------|
| api_version | Integer                    | The version of the REST interface.   |
| archives    | <a href="#">Archive</a> [] | A collection of the archive servers. |
| version     | String                     | The version of the module.           |

## 5.2.14 AuditLog

Object provides information on audit log events.

### Definition

```
{
  "events" : [{
    "computer_name" : "String",
    "delegate" : {
      "email" : "String",
      "first_name" : "String",
      "icon_url" : "String",
      "id" : "String",
      "last_name" : "String",
      "uri" : "String",
      "type" : "String"
    },
    "details" : "String",
    "local_address" : "String",
    "public_address" : "String",
    "time" : "String - DateTime",
    "type" : "String",
    "user" : {
      "email" : "String",
      "first_name" : "String",
      "icon_url" : "String",
      "id" : "String",
      "last_name" : "String",
      "uri" : "String",
      "type" : "String"
    }
  }],
  "size" : 0,
  "statistic" : {}
}
```

### Fields

|           |                                   |  |
|-----------|-----------------------------------|--|
| events    | <a href="#">AuditLogEvent</a> []  | Audit log events.                            |
| size      | Integer                           | The size of the audit log events collection. |
| statistic | <a href="#">AuditLogStatistic</a> | Audit log events statistic.                  |

## 5.2.15 AuditLogCSV

Object provides information on audit log events in CSV format.

### Definition

```
Time;User;Address;Computer;InternalAddress;EventType;EventDetails;Delegate
2018-10-29T16:07:57Z;admin;192.168.50.15;apps.imis.eu;192.168.80.64;ENTITY_OPEN_READ_ONLY;;
2018-10-24T08:11:41Z;admin;192.168.50.15;apps.imis.eu;192.168.80.67;ENTITY_SAVE;;
```

*Fields*

|                 |        |                                 |
|-----------------|--------|---------------------------------|
| Time            | String | Date and time of the event.     |
| User            | String | User who carried out the event. |
| Address         | String | External IP address.            |
| Computer        | String | The name of the device.         |
| InternalAddress | String | Internal IP address.            |
| EventType       | String | The type of the event.          |
| EventDetails    | String | Event description.              |
| Delegate        | String | Delegate.                       |

**5.2.16 AuditLogEvent**

Object provides information on the audit log event.

*Definition*

```
{
  "computer_name" : "String",
  "delegate" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
    "type" : "String"
  },
  "details" : "String",
  "local_address" : "String",
  "pubic_address" : "String",
  "time" : "String - DateTime",
  "type" : "String",
  "user" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
    "type" : "String"
  }
}
```

*Fields*

|                     |                                     |   |
|---------------------|-------------------------------------|---|
| classification_code | String                              | The canonical form of the full classification code. |
| computer_name       | String                              | The name of the device.                             |
| delegate            | <a href="#">DirectoryEntityLink</a> | Delegate (optional).                                |
| details             | String                              | A detailed description of the event (optional).     |
| id                  | String                              | The unique identifier of the entity.                |

|                            |                                     |   |
|----------------------------|-------------------------------------|---|
| local_address              | String                              | Internal IP address.  |
| public_address             | String                              | External IP address.  |
| public_classification_code | String                              | Entity classification code in the classification scheme.  |
| time                       | <a href="#">String - DateTime</a>   | Date and time of the event.   |
| type                       | String                              | Event type. The set of events: <ul style="list-style-type: none"> <li>- INVALID</li> <li>- ENTITY_CREATE</li> <li>- ENTITY_OPEN_READ_ONLY</li> <li>- ENTITY_OPEN_READ_WRITE</li> <li>- ENTITY_SAVE</li> <li>- ENTITY_MOVE</li> <li>- ENTITY_DELETE</li> <li>- AUDIT_LOG_QUERY</li> <li>- CONFIGURATION_CHANGE</li> <li>- PROPERTY_VALUE_CHANGE</li> <li>- ACL_ENTRY_CHANGE</li> <li>- PHYSICAL_ENTITY_CHANGE</li> <li>- SECURITY_CLASS_CHANGE</li> <li>- STATUS_CHANGE</li> <li>- RETENTION_CHANGE</li> <li>- ENTITY_TEMPLATE_SWITCH</li> <li>- CONTENT_PART_OPEN_READ_ONLY</li> <li>- CONTENT_PART_OPEN_READ_WRITE</li> <li>- CONTENT_PART_CREATE</li> <li>- CONTENT_PART_DELETE</li> <li>- CONTENT_PART_SAVE</li> <li>- CONTENT_PART_MOV</li> <li>- CONTENT_PART_METADATA_CHANGE</li> <li>- ENTITY_DISPOSED</li> <li>- ENTITY_PERMANENT</li> <li>- ENTITY_TRANSFERRED</li> <li>- ENTITY_REVIEWED</li> <li>- ENTITY_CHECK_OUT</li> <li>- ENTITY_CHECK_IN</li> <li>- ENTITY_DISCARD.</li> </ul> |
| user                       | <a href="#">DirectoryEntityLink</a> | User who carried out the event.   |
| version                    | Integer                             | The identifier of the entity version.   |
| version_label              | String                              | The label of the entity version.  |



## 5.2.17 AuditLogRequest

Object provides request on audit log events information.

### Definition

```
{
  "address_from" : "String",
  "address_to" : "String",
  "addresses" : ["String"],
  "after" : "String - DateTime",
  "before" : "String - DateTime",
  "computer_name_from" : "String",
  "computer_name_to" : "String",
  "computer_names" : ["String"],
  "events" : [],
  "id" : "String ",
  "id_type" : "String",
  "recursive" : true,
  "refresh" : true,
  "statistic" : true,
  "sort_by_date" : "String - ASCENDING/DESCENDING",
  "types" : ["String -CLASS/DOCUMENT/FOLDER"],
  "username_from" : "String",
  "username_to" : "String",
  "usernames" : ["String"],
  "page_size" : 1,
  "page_start" : 0
}
```

### Fields

|                    |                                   |  |
|--------------------|-----------------------------------|--|
| address_from       | String                            | Start address.   |
| address_to         | String                            | End address.   |
| addresses          | String []                         | Address collection.  |
| after              | <a href="#">String - DateTime</a> | Start date.  |
| before             | <a href="#">String - DateTime</a> | End date.  |
| computer_name_from | String                            | Device start name.   |
| computer_name_to   | String                            | Device end name.   |
| computer_names     | String []                         | Collection of device names.  |
| events             | String []                         | Collection of events in the reply.                                 |
| id                 | String                            | The unique identifier of the entity.                               |
| id_type            | String                            | The entity identifier type. (optional, default value is INTERNAL). |

|               |           |   |
|---------------|-----------|---|
| recursive     | Boolean   | Specifies whether the events of subentities are returned (optional, default value is false).        |
| refresh       | Boolean   | Specifies whether the event collection is refreshed. (optional, default value is false).            |
| statistic     | Boolean   | Specifies whether the reply sends an audit log events statistic (optional, default value is false). |
| sort_by_date  | String    | Sorting by date (default value: DESCENDING).<br>The set of values:<br>- ASCENDING<br>- DESCENDING.  |
| types         | String [] | Entity types. The set of values:<br>- CLASS<br>- DOCUMENT<br>- FOLDER.                              |
| username_from | String    | Start username.   |
| username_to   | String    | End username.   |
| usernames     | String [] | Username collection.  |
| page_size     | Integer   | The size of the page.   |
| page_start    | Integer   | The beginning of the page.  |

## 5.2.18 AuditLogStatistic

Object provides information on audit log events statistic.

### Definition

```
{
  "days" : [{
    "date" : "String - Date",
    "events" : 1
  }],
  "users" : [{
    "date" : "String - Date",
    "users" : 1
  }]
}
```

### Fields

|       |  |  |
|-------|--|--|
| days  | <a href="#">AuditLogStatisticDay []</a>  | Collection of the number of events on a given day. |
| users | <a href="#">AuditLogStatisticUser []</a> | Collection of the number of users on a given day.  |

## 5.2.19 AuditLogStatisticDay

Object provides information on audit log events statistic on a specific day.

*Definition*

```
{
  "date" : "String - Date",
  "events" : 1
}
```

*Fields*

|        |                               |                   |
|--------|-------------------------------|-------------------|
| date   | <a href="#">String - Date</a> | Date.             |
| events | Integer                       | Number of events. |

## 5.2.20 AuditLogStatisticUser

Object provides information on audit log events statistic for a specific user.

*Definition*

```
{
  "date" : "String - Date",
  "users" : 1
}
```

*Fields*

|       |                               |                  |
|-------|-------------------------------|------------------|
| date  | <a href="#">String - Date</a> | Date             |
| users | Integer                       | Number of users. |

## 5.2.21 Authentication

Object provides information on user authentication.

*Definition*

```
{
  "username" : "String",
  "password" : "String",
  "ldap_password" : "String",
  "kerberos5_service_ticket" : "String - Base64",
  "external_identity" : "String",
  "external_identity_id" : "String"
}
```

*Fields*

|                          |                 |  |
|--------------------------|-----------------|--|
| username                 | String          | The name of the user.                                  |
| password                 | String          | The user password (optional).                          |
| ldap_password            | String          | LDAP password (optional).                              |
| kerberos5_service_ticket | String - Base64 | Kerberos5 service ticket (optional).                   |
| external_identity        | String          | External identity (optional).                          |
| external_identity_id     | String          | Unique identifier of the external identity (optional). |

**5.2.22 BatchEntityCreate**

Object provides information on entity create.

*Definition*

```
{
  "overwrite_objects" : true,
  "update" : true,
  "search" : "String",
  "id" : "String",
  "id_type" : "String",
  "reason" : "String",
  "entities" : [],
  "object_transfer" : [],
  "template" : "String",
  "title" : "String",
  "classification_code" : "String",
  "status" : {
    "inherited" : true,
    "value" : "String"
  },
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  },
  "child_classification_code_mode" : "String - AUTOMATIC/MANUAL/MANUAL_OPTIONAL",
  "description" : "String",
  "owner" : "String",
  "objects" : [{
    "container_id" : "String",
    "description" : "String",
    "content_type" : "String",
    "content" : "String - Base64"
  }],
  "significance" : {
    "inherited" : true,
    "value" : "String"
  },
  "external_ids" : ["String"],
  "keywords" : ["String"],
  "categories" : ["String"],
  "properties" : [{
    "id" : "String",
    "inherited" : false,
    "values" : [T]
  }],
  "retention" : {
    "policies" : [{
      "id" : "String",
      "name" : "String",

```

```

    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "folders" : true,
      "documents" : true
    }
  },
  "disposition_holds" : [{
    "id" : "String"
    "name" : "String"
  }]
},
"email_properties" : {
  "subject" : "String",
  "from" : "String",
  "to" : ["String"],
  "cc" : ["String"],
  "bcc" : ["String"],
  "date" : "String - DateTime",
  "message_id" : "String",
  "priority" : "String",
  "signed" : true
},
"physical_properties" : {
  "current_location" : "String",
  "custodian" : "String",
  "description" : "String",
  "home_location" : "String",
  "id" : "String",
  "return_due" : "String - Date",
  "status" : "String"
}
}

```

*Fields*

|                   |   |   |
|-------------------|---|---|
| overwrite_objects | Boolean   | Specifies whether existing objects are deleted and new ones are saved.  |
| update            | Boolean   | Specifies whether the entity is opened in edit mode, the fields updated, and the entity saved (default value: false). |
| search            | String  | Search string for the entity which is used to search for an existing entity.  |
| id                | String  | The unique identifier of the entity which is used to search for an existing entity.                                   |
| id_type           | String  | Type of the entity identifier which is used to search for an existing entity.   |
| reason            | String  | The reason for entity create or update.   |
| object_transfer   | <a href="#">BatchEntityCreateObject Transfer</a> [] | Collection of objects for transfer (optional).  |
| entities          | <a href="#">BatchEntityCreate</a>                   | Collection of entities for creation or modification.  |
| template          | String  | The unique identifier of the entity template.   |

|                                |  |  |
|--------------------------------|--|--|
| title                          | String                                   | The title of the entity.   |
| classification_code            | String                                   | The canonical form of the full classification code (optional).   |
| status                         | <a href="#">InheritedStringProperty</a>  | Entity status (optional).  |
| security_class                 | <a href="#">InheritedStringProperty</a>  | Entity security class (optional).  |
| child_classification_code_mode | String                                   | Child entity classification code generation (optional).<br>The set of values:<br>- AUTOMATIC<br>- MANUAL<br>- MANUAL_OPTIONAL. |
| description                    | String                                   | Entity description (optional)  |
| owner                          | String                                   | The owner of the entity (optional).  |
| objects                        | <a href="#">EntityObjectCreate</a> []    | A collection of the entity objects (optional).   |
| significance                   | <a href="#">InheritedStringProperty</a>  | The significance of the entity (optional).   |
| external_ids                   | String []                                | The external identifiers of the entity.  |
| keywords                       | String []                                | Keywords of the entity.  |
| categories                     | String []                                | Categories of the entity.  |
| properties                     | <a href="#">EntityPropertyUpdate</a> []  | Entity properties.   |
| retention                      | <a href="#">EntityRetentionCreate</a>    | Retention policies and disposition holds.  |
| email_properties               | <a href="#">EmailProperties</a>          | Email properties.<br>Compatibility: IMiS®/ARChive Server 9.10 or lower.  |
| email                          | <a href="#">EmailCreate</a>              | Email content.<br>Compatibility: IMiS®/ARChive Server 10.1 or higher.  |
| physical_properties            | <a href="#">PhysicalPropertiesUpdate</a> | Physical content properties.   |

### 5.2.23 BatchEntityCreateObjectTransfer

Object provides information on object transfer.

#### Definition

```
{
  "container_id" : "String",
  "description" : "String",
  "id" : "String",
  "transfer_id" : true
}
```

*Fields*

|              |         |   |
|--------------|---------|---|
| container_id | String  | The unique identifier of additional entity content object container of target entity (optional).  |
| description  | String  | A description of the entity which will be in the target entity (optional).  |
| id           | String  | The unique identifier of the object.  |
| transfer_id  | Boolean | The unique identifier of the transferred entity. Specifies whether the identifier of the object has been added to the collection of external identifiers of the target entity (optional, default value: false). |

**5.2.24 BatchEntityCreateRequest**

Object provides request on entity collection create.

*Definition*

```
{
  "entities" : []
}
```

*Fields*

|          |                                      |                               |
|----------|--------------------------------------|-------------------------------|
| entities | <a href="#">BatchEntityCreate</a> [] | A collection of the entities. |
|----------|--------------------------------------|-------------------------------|

**5.2.25 CacheClearRequest**

The object provides information on the request to close opened entities, reviews and drafts.

*Definition*

```
{
  "entities" : ["String"],
  "reviews" : ["String"],
  "drafts" : ["String"]
}
```

*Fields*

|          |           |   |
|----------|-----------|---|
| entities | String [] | The collection of temporary entity identifiers.       |
| reviews  | String [] | The collection of temporary review identifiers.       |
| drafts   | String [] | The collection of temporary entity draft identifiers. |

## 5.2.26 Category

Object provides information on category.

### Definition

```
{
  "name" : "String",
  "size" : 1
}
```

### Fields

|      |         |                           |
|------|---------|---------------------------|
| name | String  | The name of the category. |
| size | Integer | The category size.        |

## 5.2.27 DeletionStub

Object provides information on deleted entity.

### Definition

```
{
  "agent" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
  },
  "classification_code" : "String",
  "container" : false,
  "child_count" : 0,
  "deleted" : "String",
  "description" : "String",
  "id" : "String",
  "public_classification_code" : "String",
  "reason" : "String",
  "reference" : "String",
  "title" : "String"
}
```

### Fields

|                     |                                     |   |
|---------------------|-------------------------------------|---|
| agent               | <a href="#">DirectoryEntityLink</a> | Directory entity that deleted an entity.                |
| classification_code | String                              | The canonical form of the full classification code.     |
| container           | Boolean                             | Specifies whether an entity can contain child entities. |
| child_count         | Integer                             | The number of child entities.                           |
| deleted             | String                              | Specifies whether the directory entity is deleted.      |
| description         | String                              | A description of the deleted entity.                    |



|                            |        |   |
|----------------------------|--------|---|
| id                         | String | The unique identifier of the deleted entity.  |
| public_classification_code | String | Entity classification code in the classification scheme.                              |
| reason                     | String | The reason for entity deletion.   |
| reference                  | String | The reference to an entity (internal, external) which is relevant for deleted entity. |
| title                      | String | The title of the entity.  |
| type                       | String | Entity type. The set of values:<br>- "CLASS",<br>- "FOLDER",<br>- "DOCUMENT".         |

## 5.2.28 DeletionStubResponse

Object provides information on deleted entity.

### Definition

```
{
  "deletion_stub" : {
    "agent" : {
      "email" : "String",
      "first_name" : "String",
      "icon_url" : "String",
      "id" : "String",
      "last_name" : "String",
      "uri" : "String",
    },
    "classification_code" : "String",
    "container" : false,
    "child_count" : 0,
    "deleted " : "String",
    "description" : "String",
    "id" : "String",
    "public_classification_code" : "String",
    "reason" : "String",
    "title" : "String"
  }
}
```

### Fields

|               |                              |  |
|---------------|------------------------------|--|
| deletion_stub | <a href="#">DeletionStub</a> | Object provides information on the deleted entity. |
|---------------|------------------------------|--|

## 5.2.29 DeletionStubsResponse

Object provides information on deleted entities.

### Definition

```
{
  "entities" : [...],
  "page_size" : 1,
  "page_start" : 0,
  "size" : 1
}
```

### Fields

|            |                                 |   |
|------------|---------------------------------|---|
| Entities   | <a href="#">DeletionStub</a> [] | A collection of the deleted entities.                     |
| page_size  | Integer                         | The size of the page.                                     |
| page_start | Integer                         | The page index in the collection of the deleted entities. |
| Size       | Integer                         | The size of the collection.                               |
| handle     | String                          | Collection handle.  |

## 5.2.30 DirectoryEntity

Object provides information on directory entity.

### Definition

```
{
  "id" : "String",
  "first_name" : "String",
  "last_name" : "String",
  "email" : "String",
  "description" : "String",
  "security_class_level" : "String",
  "type" : "String - GROUP/USER",
  "deleted" : true,
  "enabled" : true,
  "icon_url" : "String",
  "members" : { // Optional
    "id" : "String",
    "uri" : "String - URI"
  },
  "created" : "String - DateTime",
  "created_by" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",
    "uri" : "String",
    "type" : "String"
  },
  "modified" : "String - DateTime",
  "modified_by" : {
    "email" : "String",
    "first_name" : "String",
    "icon_url" : "String",
    "id" : "String",
    "last_name" : "String",

```

```

    "uri" : "String",
    "type" : "String"
  }
}

```

### Fields

|                      |  |  |
|----------------------|--|--|
| id                   | String                                 | The unique identifier of the directory entity.   |
| first_name           | String                                 | First name of the directory entity.  |
| last_name            | String                                 | Last name of the directory entity.   |
| email                | String                                 | Email address of the directory entity.   |
| description          | String                                 | A description of the directory entity.   |
| security_class_level | String                                 | The security class of the directory entity.  |
| type                 | String                                 | Directory entity type. The set of values:<br>- GROUP: Directory entity is a group<br>- USER: Directory entity is a user. |
| deleted              | Boolean                                | Specifies whether the directory entity is deleted.   |
| enabled              | Boolean                                | Specifies whether the directory entity is enabled.   |
| members              | <a href="#">ObjectLink</a>             | Link to the members of the directory entity group (optional).  |
| created              | <a href="#">String - DateTime</a>      | Date and time of the directory entity creation.  |
| created_by           | <a href="#">DirectoryEntityLink</a>    | Directory entity, who created this directory entity.   |
| modified             | <a href="#">String - DateTime</a>      | Date and time of the entity change.  |
| modified_by          | <a href="#">DirectoryEntityLink</a>    | The directory entity who last modified the entity.   |
| Aliases              | String []                              | Collection of directory entity aliases.  |
| Groups               | <a href="#">DirectoryEntityLink</a> [] | Collection of groups of which the directory entity is a member.  |

## 5.2.31 DirectoryEntityLink

Object provides link to the directory entity.

### Definition

```

{
  "email" : "String",
  "first_name" : "String",
  "id" : "String",
  "icon_url" : "String",
  "last_name" : "String",
  "type" : "String - GROUP/USER",
  "uri" : "String - URI"
}

```

*Fields*

|            |        |   |
|------------|--------|---|
| email      | String | Email address of the directory entity.  |
| first_name | String | First name of the directory entity.   |
| id         | String | The unique identifier of the directory entity.  |
| icon_url   | String | Link to the user icon (optional).   |
| last_name  | String | Last name of the directory entity.  |
| type       | String | Directory entity type. The set of values:<br>- GROUP: Directory entity is a group<br>- USER: Directory entity is a user.                                |
| uri        | String | Link to the directory entity (optional).  |
| membership | String | Defines the membership level in the group (optional).<br>The set of values:<br>- EXPLICIT: membership is mentioned explicitly in this directory entity. |

**5.2.32 DirectoryEntitiesResponse**

Object provides information on directory entities.

*Definition*

```
{
  "directory_entities" : [{
    "id" : "String",
    "first_name" : "String",
    "last_name" : "String",
    "email" : "String",
    "description" : "String",
    "security_class" : "String",
    "type" : "String - GROUP/USER",
    "deleted" : true,
    "enabled" : true,
    "members" : { // Optional
      "id" : "String",
      "uri" : "String - URI"
    }
  }
  ]
}
```

*Fields*

|                    |                                    |  |
|--------------------|------------------------------------|--|
| directory_entities | <a href="#">DirectoryEntity</a> [] | Directory entities.                          |
| size               | Integer                            | The size of the directory entity collection. |
| page_size          | Integer                            | The size of the page (optional).             |
| page_start         | Integer                            | The beginning of the page (optional).        |

### 5.2.33 DirectoryEntityResponse

Object provides information on directory entity.

#### Definition

```
{
  "directory_entity" : {
    "id" : "String",
    "first_name" : "String",
    "last_name" : "String",
    "email" : "String",
    "description" : "String",
    "security_class_level" : "String",
    "type" : "String - GROUP/USER",
    ...
  }
}
```

#### Fields

|                  |                                 |                   |
|------------------|---------------------------------|-------------------|
| directory_entity | <a href="#">DirectoryEntity</a> | Directory entity. |
|------------------|---------------------------------|-------------------|

### 5.2.34 DispositionHold

Object provides information on entity disposition hold.

#### Definition

```
{
  "accessed" : "String - DateTime",
  "created" : "String - DateTime",
  "modified" : "String - DateTime",
  "description" : "String",
  "id" : "String",
  "name" : "String",
  "reason" : "String",
  "creator" : {
    "id" : "String",
    "uri" : "String - URI"
  }
}
```

#### Fields

|             |                                   |   |
|-------------|-----------------------------------|---|
| accessed    | <a href="#">String - DateTime</a> | Date and time of the disposition hold access.   |
| created     | <a href="#">String - DateTime</a> | Date and time of the disposition hold creation. |
| modified    | <a href="#">String - DateTime</a> | Date and time of the disposition hold change.   |
| description | String                            | A description of the disposition holds.         |
| id          | String                            | The unique identifier of the disposition holds. |
| name        | String                            | The name of the disposition holds.              |
| reason      | String                            | The reason for disposition holds creation.      |
| creator     | <a href="#">ObjectLink</a>        | The author of the disposition holds.            |

### 5.2.35 DispositionHoldResponse

Object provides information on entity disposition hold.

*Definition*

```
{
  "disposition_hold" : {
    "accessed" : "String - DateTime",
    "created" : "String - DateTime",
    "modified" : "String - DateTime",
    "description" : "String",
    "id" : "String",
    "name" : "String",
    "reason" : "String",
    "creator" : {
      "id" : "String",
      "uri" : "String - URI"
    }
  }
}
```

*Fields*

|                  |                                 |                          |
|------------------|---------------------------------|--------------------------|
| disposition_hold | <a href="#">DispositionHold</a> | Entity disposition hold. |
|------------------|---------------------------------|--------------------------|

### 5.2.36 DispositionHoldsResponse

Object provides information on entity disposition holds.

*Definition*

```
{
  "disposition_holds" : [{
    "accessed" : "String - DateTime",
    "created" : "String - DateTime",
    "modified" : "String - DateTime",
    "description" : "String",
    "id" : "String",
    "name" : "String",
    "reason" : "String",
    "creator" : {
      "id" : "String",
      "uri" : "String - URI"
    }
  }]
}
```

*Fields*

|                   |                                    |                           |
|-------------------|------------------------------------|---------------------------|
| disposition_holds | <a href="#">DispositionHold</a> [] | Entity disposition holds. |
|-------------------|------------------------------------|---------------------------|

### 5.2.37 Draft

Object provides information on draft.

#### Definition

```
{
  "accessed" : "String - DateTime",
  "categories" : [],
  "content_options": [],
  "created" : "String - DateTime",
  "creator" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "description" : "String ",
  "effective_rights" : {},
  "email_properties" : {},
  "id" : "String",
  "keywords" : [],
  "modified" : "String - DateTime",
  "modified_by" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "objects" : [],
  "owner" : {},
  "physical_properties" : {},
  "properties" : [],
  "source_id" : "String",
  "template" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "title" : "String",
  "type" : "String"
}
```

#### Fields

|                  |  |  |
|------------------|--|--|
| accessed         | <a href="#">String - DateTime</a>      | Date and time of the draft access.             |
| categories       | String []                              | Categories of the draft.                       |
| content_options  | <a href="#">EntityContentOption</a> [] | The properties of the content.                 |
| created          | <a href="#">String - DateTime</a>      | Date and time of the draft creation.           |
| creator          | <a href="#">ObjectLink</a>             | The author of the draft.                       |
| description      | String                                 | A description of the draft.                    |
| effective_rights | <a href="#">EntityRights</a>           | Effective rights of current user on the draft. |
| email_properties | <a href="#">EmailProperties</a>        | Email properties.                              |
| id               | String                                 | The unique identifier of a draft.              |
| keywords         | String []                              | Keywords of the draft.                         |
| modified         | <a href="#">String - DateTime</a>      | Date and time of the draft change.             |

|                     |                                     |   |
|---------------------|-------------------------------------|---|
| modified_by         | <a href="#">DirectoryEntityLink</a> | The user who last modified the draft.                   |
| objects             | <a href="#">ObjectStub</a> []       | A collection of the entity objects (optional).          |
| owner               | <a href="#">ObjectLink</a>          | The owner of the entity (draft).                        |
| physical_properties | <a href="#">PhysicalProperties</a>  | Physical content properties.                            |
| properties          | <a href="#">EntityProperty</a> []   | Entity properties.                                      |
| source_id           | String                              | Identifier of the entity from which the draft was made. |
| template            | <a href="#">ObjectLink</a>          | The unique identifier of the draft template.            |
| title               | String                              | The title of the draft.                                 |
| type                | String                              | Draft type. The set of values:<br>- DOCUMENT            |

### 5.2.38 DraftCheckInRequest

Object provides request on draft check-in information.

#### Definition

```
{
  "check_in" : {
    "position" : 0,
    "comment" : ""
  }
}
```

#### Fields

|                   |         |   |              |                            |
|-------------------|---------|---|--------------|----------------------------|
| check_in.position | Integer | The position of the entity version:<br>Set of values: | <b>Value</b> | <b>Description</b>         |
|                   |         |   | 0            | Major (e.g. 2)             |
|                   |         |   | 1            | Minor (e.g. 2.1)           |
|                   |         |   | 2            | 3rd level (e.g. 2.1.1)     |
|                   |         |   | 3            | 4th level (e.g. 2.1.1.1)   |
|                   |         |   | null         | Overwrite current version. |
| check_in.comment  | String  | The comment of the draft check in.                    |              |                            |



### 5.2.39 DraftResponse

Object provides information on draft.

#### Definition

```
{
  "draft" : {...}
}
```

#### Fields

|       |                       |                    |
|-------|-----------------------|--------------------|
| draft | <a href="#">Draft</a> | Draft information. |
|-------|-----------------------|--------------------|

### 5.2.40 DraftsResponse

Object provides public information on drafts.

#### Definition

```
{
  "categories" : [],
  "entities" : [{
    "classification_code" : "String",
    "public_classification_code" : "String",
    "id" : "String",
    "title" : "String",
    "type" : "String - CLASS/FOLDER/DOCUMENT",
  }],
  "page_size" : 1,
  "page_start" : 0,
  "size" : 1
}
```

#### Fields

|            |                              |   |
|------------|------------------------------|---|
| categories | <a href="#">Category</a> []  | Categories of the draft.  |
| entities   | <a href="#">DraftStub</a> [] | Drafts. Fields <i>id</i> , <i>title</i> , <i>description</i> , <i>classification_code</i> , <i>public_classification_code</i> and <i>type</i> are always present. |
| size       | Integer                      | The size of the draft collection.   |
| page_size  | Integer                      | The size of the page.   |
| page_start | Integer                      | The beginning of the page.  |
| handle     | String                       | Collection handle.  |

## 5.2.41 DraftStub

Object provides public information on draft.

### Definition

```
{
  "accessed" : "String - DateTime",
  "categories" : [],
  "created" : "String - DateTime",
  "creator" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "description" : "String ",
  "effective_rights" : {},
  "id" : "String",
  "keywords" : [],
  "modified" : "String - DateTime",
  "modified_by" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "owner" : {},
  "properties" : [],
  "source_id" : "String",
  "template" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "title" : "String",
  "type" : "String"
}
```

### Fields

|                  |                                     |  |
|------------------|-------------------------------------|--|
| accessed         | <a href="#">String - DateTime</a>   | Date and time of the draft access.         |
| categories       | String []                           | Categories of the draft.                   |
| created          | <a href="#">String - DateTime</a>   | Date and time of the draft creation.       |
| creator          | <a href="#">ObjectLink</a>          | The author of the draft.                   |
| description      | String                              | A description of the draft.                |
| effective_rights | <a href="#">EntityRights</a>        | Effective rights of current user on draft. |
| id               | String                              | The unique identifier of a draft.          |
| keywords         | String []                           | Keywords of the draft.                     |
| modified         | <a href="#">String - DateTime</a>   | Date and time of the draft change.         |
| modified_by      | <a href="#">DirectoryEntityLink</a> | The user who last modified the draft.      |
| owner            | <a href="#">ObjectLink</a>          | The owner of the entity (draft).           |

|            |                                   |   |
|------------|-----------------------------------|---|
| properties | <a href="#">EntityProperty</a> [] | Draft properties.                                       |
| source_id  | String                            | Identifier of the entity from which the draft was made. |
| template   | <a href="#">ObjectLink</a>        | The unique identifier of the draft template.            |
| title      | String                            | The title of the draft.                                 |
| type       | String                            | Draft type. The set of values:<br>- DOCUMENT.           |

### 5.2.42 DraftStubResponse

Object provides public information on draft.

#### Definition

```
{
  "draft_stub" : {...}
}
```

#### Fields

|            |                           |                                       |
|------------|---------------------------|---------------------------------------|
| draft_stub | <a href="#">DraftStub</a> | Object provides information on draft. |
|------------|---------------------------|---------------------------------------|

### 5.2.43 DraftUpdate

Object provides information on draft change.

#### Definition

```
{
  "categories" : [],
  "description" : "String",
  "keywords" : [],
  "owner" : "String",
  "physical_properties" : {},
  "properties" : [],
  "title" : "String",
}
```

#### Fields

|                     |  |   |
|---------------------|--|---|
| categories          | String []                                | Categories of the draft.                |
| description         | String                                   | A description of the draft.             |
| keywords            | String []                                | Keywords of the draft.                  |
| owner               | String                                   | The owner of the entity (draft).        |
| physical_properties | <a href="#">PhysicalPropertiesUpdate</a> | Physical content properties (optional). |
| properties          | <a href="#">EntityProperty</a> []        | Entity properties.                      |
| title               | String                                   | The title of the draft.                 |

## 5.2.44 DraftUpdateRequest

Object provides request on update the draft.

### Definition

```
{
  "draft_update" : {
    "title" : "String",
    "description" : "String",
    "owner" : "String",
    "categories" : [
      "String"
    ],
    "keywords" : [
      "String"
    ],
    "properties" : [{
      "id" : "String",
      "values" : [T]
    }
  ],
  "physical_properties" : {
    "current_location" : "String",
    "custodian" : "String",
    "description" : "String",
    "home_location" : "String",
    "id" : "String",
    "return_due" : "String - Date",
    "status" : "String"
  }
}
```

### Fields

|              |                             |  |
|--------------|-----------------------------|--|
| draft_update | <a href="#">DraftUpdate</a> | Object provides information on draft update. |
|--------------|-----------------------------|--|

## 5.2.45 EmailCreate

Object provides information on email content.

### Definition

```
{
  "content_type" : "String",
  "content" : "String - Base64"
}
```

### Fields

|              |        |                              |
|--------------|--------|------------------------------|
| content_type | String | Content object type.         |
| content      | String | The email content in Base64. |

## 5.2.46 EmailProperties

Object provides information on email properties.

### Definition

```
{
  "subject" : "String",
  "from" : "String",
  "to" : [
    "String"
  ],
  "cc" : [
    "String"
  ],
  "bcc" : [
    "String"
  ],
  "date" : "String - DateTime",
  "message_id" : "String",
  "priority" : "String",
  "signed" : true
}
```

### Fields

|            |                                   |  |
|------------|-----------------------------------|--|
| subject    | String                            | Email subject.   |
| from       | String                            | Email address of the sender.   |
| to         | String []                         | Email addresses of the recipients.                                     |
| cc         | String []                         | Email addresses of the carbon copy recipients.                         |
| bcc        | String []                         | Email addresses of the hidden recipients.                              |
| date       | <a href="#">String - DateTime</a> | Date and time email were sent or received.                             |
| message_id | String                            | Automatically generated message identifier.                            |
| priority   | String                            | The priority status of the email.                                      |
| signed     | Boolean                           | A value that registers if the email message was electronically signed. |

## 5.2.47 EntitiesCacheResponse

The object provides information on the collection of publicly accessible entity information.

### Definition

```
{
  "entities" : [{
    "classification_code" : "String",
    "public_classification_code" : "String",
    "id" : "String",
    "title" : "String",
    "type" : "String - CLASS/FOLDER/DOCUMENT",
  }],
  "page_size" : 1,
  "page_start" : 0,
  "size" : 1
}
```

*Fields*

|            |                           |   |
|------------|---------------------------|---|
| entities   | <a href="#">Entity</a> [] | A collection of the entities.                     |
| page_size  | Integer                   | The size of the page collection.                  |
| page_start | Integer                   | The page index in the collection of the entities. |
| size       | Integer                   | The size of the collection of the entities.       |

**5.2.48 EntitiesResponse**

Object provides public information on entities.

*Definition*

```
{
  "categories" : [],
  "entities" : [{
    "classification_code" : "String",
    "public_classification_code" : "String",
    "id" : "String",
    "title" : "String",
    "type" : "String - CLASS/FOLDER/DOCUMENT",
  }],
  "page_size" : 1,
  "page_start" : 0,
  "size" : 1
}
```

*Fields*

|            |                               |                                      |
|------------|-------------------------------|--------------------------------------|
| categories | <a href="#">Category</a> []   | Categories of the entity             |
| entities   | <a href="#">EntityStub</a> [] | Entities.                            |
| page_size  | Integer                       | The size of the page.                |
| page_start | Integer                       | The beginning of the page.           |
| size       | Integer                       | The size of the category collection. |
| handle     | String                        | Collection handle.                   |

**5.2.49 Entity**

Object provides entity information.

*Definition*

```
{
  "links" : [{
    "type" : "entity:acl",
    "uri" : "String - URI"
  }, {
    "type" : "entity:audit_log",
    "uri" : "String - URI"
  }, {
    "type" : "nonrepudiation",
    "uri" : "String - URI"
  }, {
```

```

    "type" : "objects",
    "uri" : "String - URI"
  }, {
    "type" : "search",
    "uri" : "String - URI"
  }, {
    "type" : "parent",
    "uri" : "String - URI"
  }, {
    "type" : "entity:stub",
    "uri" : "String - URI"
  }, {
    "type" : "entity#edit",
    "uri" : "String - URI"
  }, {
    "type" : "entity#delete",
    "uri" : "String - URI"
  }, {
    "type" : "entity:status#edit",
    "uri" : "String - URI"
  }, {
    "type" : "entity:security_class#edit",
    "uri" : "String - URI"
  }, {
    "type" : "entity#move",
    "uri" : "String - URI"
  }
},
"classification_code" : "String",
"public_classification_code" : "String",
"type" : "String - CLASS/FOLDER/DOCUMENT",
"created" : "String - DateTime",
"accessed" : "String - DateTime",
"modified" : "String - DateTime",
"modified_by" : {
  "email" : "String",
  "first_name" : "String",
  "id" : "String",
  "last_name" : "String",
  "type" : "String",
  "uri" : "String - URI"
},
"closed" : "String - DateTime",
"opened" : "String - DateTime",
"creator" : {
  "email" : "String",
  "first_name" : "String",
  "id" : "String",
  "last_name" : "String",
  "type" : "String",
  "uri" : "String - URI"
},
"content_options" : [{
  "container_id" : "String",
  "public" : false,
  "read_only" : false,
  "read_only_after_check_in" : false,
  "read_only_after_create " : false,
  "versionable" : false
}],
"objects" : [{
  "container_id" : "String", // Optional
  "id" : "String",
  "description" : "String",
  "size" : 0,
  "created" : "String - DateTime",
  "accessed" : "String - DateTime",
  "modified" : "String - DateTime",
  "content_type" : "String",
  "extension" : "String",
  "child_count" : 0,

```

```

    "signed" : false,
    "indexed" : false,
    "parent_id" : "String",
  ]],
  "owner" : {
    "email" : "String",
    "first_name" : "String",
    "id" : "String",
    "last_name" : "String",
    "type" : "String",
    "uri" : "String - URI"
  },
  "description" : "",
  "external_ids" : [
    "String"
  ],
  "keywords" : [
    "String"
  ],
  "categories" : [
    "String"
  ],
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  },
  "significance" : {
    "inherited" : true,
    "value" : "String"
  },
  "status" : {
    "inherited" : true,
    "value" : "String"
  },
  "title" : "String",
  "template" : {
    "entity_type" : "String",
    "id" : "String",
    "label" : "String",
    "uri" : "String - URI"
  },
  "sub_entities_templates" : [{
    "id" : "String",
    "label" : "String",
    "uri" : "String - URI"
  }
  ],
  "aip" : true,
  "has_references" : true,
  "version" : 1,
  "version_label" : "String",
  "check_in_comment" : "String",
  "draft_creator" : {},
  "has_versions" : true,
  "has_draft" : true,
  "draft_id" : "String",
  "parent_id" : "String",
  "permanent" : true,
  "child_count" : 0,
  "effective_rights" : {
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true
  },
  "properties" : [{

```



```

"name" : "String",
"description" : "String",
"type" : "String - T",
"options" : {
  "append_only" : false,
  "included_in_aip" : false,
  "inherited" : false,
  "multi_value" : false,
  "non_empty" : false,
  "pick_list" : false,
  "public" : false,
  "read_only" : false,
  "required" : false,
  "searchable" : false,
  "unique" : false
},
"values" : [
  T
],
"effective_rights" : {
  "create_access" : true,
  "delete_access" : true,
  "read_access" : true,
  "write_access" : true,
  "valid_from" : "String - DateTime",
  "valid_to" : "String - DateTime"
}
},
"retention" : {
  "policies" : [{
    "id" : "String",
    "uri" : "String - URI",
    "name" : "String",
    "description" : "String",
    "explicit_context" : {
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "documents" : true
      }
    },
    "effective" : true
  },
  "inherited_context" : [{
    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "folders" : true,
      "documents" : true
    }
  },
  "effective" : true
}
],
"links" : [{
  "type" : "retention_policy#edit",
  "uri" : "String - URI",
}, {
  "type" : "retention_policy#delete",
  "uri" : "String - URI",
}
]
}
},
"disposition_holds" : [{
  "id" : "String",
  "uri" : "String - URI",
  "name" : "String",
  "description" : "String",
  "links" : [{
    "type" : "disposition_hold#delete",
    "uri" : "String - URI",
  }
}
]
}

```

```

    }
  ]
}
},
"child_classification_code_mode" : "String - AUTOMATIC/MANUAL/MANUAL_OPTIONAL",
"email_properties" : {
  "subject" : "String",
  "from" : "String",
  "to" : [
    "String"
  ],
  "cc" : [
    "String"
  ],
  "bcc" : [
    "String"
  ],
  "date" : "String - DateTime",
  "message_id" : "String",
  "priority" : "String",
  "signed" : true
},
"physical_properties" : {
  "current_location" : "String",
  "custodian" : "String",
  "description" : "String",
  "home_location" : "String",
  "id" : "String",
  "return_due" : "String - Date",
  "status" : "String",
  "status_change" : "String - DateTime"
}
}
}

```

*Fields*

|       |                         |   |
|-------|-------------------------|---|
| links | <a href="#">Link</a> [] | <p>Links to the entity. The set of links:</p> <ul style="list-style-type: none"> <li>- entity:acl: Link to the entity access rights.</li> <li>- entity:audit_log: Link to the entity audit log.</li> <li>- nonrepudiation: Link to the entity authenticity and integrity proofs.</li> <li>- objects: Link to the entity objects.</li> <li>- search: Link to the entity search.</li> <li>- parent: Link to the parent entity.</li> <li>- entity:stub: Link to the entity information.</li> <li>- entity#edit: Link to the entity edit action.</li> <li>- entity#delete: Link to the entity delete action.</li> <li>- entity:status#edit: Link to the entity status edit action.</li> <li>- entity:security_class#edit: Link to the entity security class edit action.</li> <li>- entity#move: Link to the entity move action.</li> </ul> |
|-------|-------------------------|---|

|                            |  |  |
|----------------------------|--|--|
| classification_code        | String                                 | The canonical form of the full classification code.                  |
| public_classification_code | String                                 | Entity classification code in the classification scheme.             |
| id                         | String                                 | The unique identifier of the entity.                                 |
| type                       | String                                 | Entity type. The set of types:<br>- CLASS<br>- FOLDER<br>- DOCUMENT. |
| created                    | <a href="#">String - DateTime</a>      | Date and time of the entity creation.                                |
| accessed                   | <a href="#">String - DateTime</a>      | Date and time of the entity access.                                  |
| modified                   | <a href="#">String - DateTime</a>      | Date and time of the entity change.                                  |
| modified_by                | <a href="#">DirectoryEntityLink</a>    | The user who last modified the entity.                               |
| closed                     | <a href="#">String - DateTime</a>      | Date and time of the entity status change to Closed.                 |
| opened                     | <a href="#">String - DateTime</a>      | Date and time of the entity status change to Opened.                 |
| aip                        | Boolean                                | Specifies whether authenticity and integrity proofs exist.           |
| has_references             | Boolean                                | Specifies whether an entity has references.                          |
| version                    | Integer                                | The identifier of the entity version.                                |
| version_label              | String                                 | The label of the entity version.                                     |
| check_in_comment           | String                                 | The comment of the version.  |
| objects                    | <a href="#">ObjectStub</a> []          | A collection of the entity objects (optional).                       |
| draft_creator              | <a href="#">DirectoryEntityLink</a>    | User who created draft.  |
| has_versions               | Boolean                                | Specifies whether an entity has versions.                            |
| has_draft                  | Boolean                                | Specifies whether an entity has draft.                               |
| draft_id                   | String                                 | The identifier of draft.   |
| parent_id                  | String                                 | The unique identifier of the parent entity (optional).               |
| creator                    | <a href="#">ObjectLink</a>             | The author of the entity.  |
| content_options            | <a href="#">EntityContentOption</a> [] | The properties of the content.                                       |
| owner                      | <a href="#">ObjectLink</a>             | The owner of the entity.   |
| description                | String                                 | A description of the entity.   |
| external_ids               | String                                 | External identifier of the entity (unique value).                    |

|                                |   |   |
|--------------------------------|---|---|
| keywords                       | String                                  | Keywords of the entity.   |
| categories                     | String []                               | Categories of the entity.   |
| security_class                 | <a href="#">InheritedStringProperty</a> | The security class of the entity.   |
| significance                   | <a href="#">InheritedStringProperty</a> | The significance of the entity.   |
| status                         | <a href="#">InheritedStringProperty</a> | The status of the entity.   |
| title                          | String                                  | The title of the entity.  |
| template                       | <a href="#">ObjectLink</a>              | The type of the template.   |
| sub_entities_templates         | <a href="#">ObjectLink</a> []           | Templates for sub-entities creation.  |
| permanent                      | Boolean                                 | The permanent entity.   |
| child_count                    | Integer                                 | The number of child entities.   |
| effective_rights               | <a href="#">EntityRights</a>            | Effective rights of current user on the entity.   |
| properties                     | <a href="#">EntityProperty</a> []       | Entity properties.  |
| retention                      | <a href="#">EntityRetention</a>         | Retention policies and disposition holds.   |
| child_classification_code_mode | String                                  | Child classification code generation.   |
| email_properties               | <a href="#">EmailProperties</a>         | Email properties.   |
| physical_properties            | <a href="#">PhysicalProperties</a>      | Physical content properties.  |
| acl                            | <a href="#">EntityACL</a>               | A collection of entity access rights (this value is present only when making reports).        |
| rights                         | <a href="#">EntityRights</a> []         | A collection of entity access rights (this value is present only when making reports).        |
| error                          | <a href="#">Error</a>                   | An error when opening the entity (optional, (this value is present only when making reports). |
| transfer                       | <a href="#">EntityTransferDetails</a>   | The entity details created prior to entity import (optional).                                 |
| has_save_log                   | Boolean                                 | Specifies whether a report on saving the entity exists.                                       |
| handle                         | String                                  | The unique identifier of the open entity.   |
| mode                           | String                                  | Defines the mode of accessing the entity.<br>The set of values:<br>- READ<br>- READ_WRITE     |

## 5.2.50 EntityACL

Object provides information on access rights of the entity and its properties.

### Definition

```
{
  "entries" : [{
    "id" : "String",
    "type" : "String",
    "links" : [{
      "type" : "entity:acl:entry#edit",
      "uri" : "String - URI"
    }, {
      "type" : "entity:acl:entry#delete",
      "uri" : "String - URI"
    }
  ]
},
  "directory_entity" : {
    "email" : "String",
    "first_name" : "String",
    "id" : "String",
    "icon_url" : "String",
    "last_name" : "String",
    "uri" : "String - URI",
    "type" : "String"
  },
  "effective_rights" : {
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
  },
  "explicit_allow_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "explicit_deny_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_allow_rights" : { // Optional
```

```

    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_deny_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
},
],
"property_entries" : [{
  "property_id" : "String",
  "entries" : [{
    "id" : "String",
    "type" : "String",
    "links" : [{
      "type" : "entity:acl:property_entry#edit",
      "uri" : "String - URI"
    }, {
      "type" : "entity:acl:property_entry#delete",
      "uri" : "String - URI"
    }
  ]
},
],
"directory_entity" : {
  "email" : "String",
  "first_name" : "String",
  "id" : "String",
  "icon_url" : "String",
  "last_name" : "String",
  "uri" : "String - URI",
  "type" : "String"
},
"effective_rights" : {
  "create_access" : true,
  "delete_access" : true,
  "read_access" : true,
  "write_access" : true
},
"explicit_allow_rights" : { // Optional
  "create_access" : true,
  "delete_access" : true,
  "read_access" : true,
  "write_access" : true,
  "valid_from" : "String - DateTime", // Optional
  "valid_to" : "String - DateTime" // Optional
},
"explicit_deny_rights" : { // Optional
  "create_access" : true,
  "delete_access" : true,
  "read_access" : true,
  "valid_from" : "String - DateTime", // Optional
  "valid_to" : "String - DateTime" // Optional
},
},
},

```

```

    "inherited_allow_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    },
    "inherited_deny_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    },
  ],
}
]
}
}

```

*Fields*

|                  |                                      |  |
|------------------|--------------------------------------|--|
| entries          | <a href="#">EntityACLEntry</a> []    | The right to access the entity.          |
| property_entries | <a href="#">EntityPropertyACL</a> [] | The right to access the entity property. |

### 5.2.51 EntityACLCreate

Object creates the explicit access rights of the entity and its properties.

*Definition*

```

{
  "entries" : [{ // Optional
    "subject" : "String",
    "type" : "String",
    "explicit_allow_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "read_access" : true, // Optional
      "write_access" : true, // Optional
      "move_access" : true, // Optional
      "delete_access" : true, // Optional
      "change_rights" : true, // Optional
      "create_sub_entities" : true, // Optional
      "create_references" : true, // Optional
      "change_security_class" : true, // Optional
      "change_status" : true, // Optional
      "change_retention" : true // Optional
    },
    "explicit_deny_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "read_access" : true, // Optional
      "write_access" : true, // Optional
      "move_access" : true, // Optional
      "delete_access" : true, // Optional
      "change_rights" : true, // Optional
      "create_sub_entities" : true, // Optional
      "create_references" : true, // Optional
      "change_status" : true, // Optional
      "change_retention" : true // Optional
    }
  ]
}
]

```

```

"property_entries" : [{ // Optional
  "property_id" : "String",
  "entries" : [{ // Optional
    "subject" : "String",
    "type" : "String",
    "explicit_allow_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    },
    "explicit_deny_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    }
  ]
}
]
}
}

```

*Fields*

|                  |  |  |
|------------------|--|--|
| entries          | <a href="#">EntityACLEntryCreate</a> []    | The right to create the entity.          |
| property_entries | <a href="#">EntityPropertyACLCreate</a> [] | The right to create the entity property. |

### 5.2.52 EntityACLEntry

Object provides information on explicit and inherited access rights of the entity.

*Definition*

```

{
  "id" : "String",
  "subject" : "String",
  "type" : "String",
  "links" : [{
    "type" : "entity:acl:entry#edit",
    "uri" : "String - URI"
  }, {
    "type" : "entity:acl:entry#delete",
    "uri" : "String - URI"
  }
],
  "directory_entity" : {
    "email" : "String",
    "first_name" : "String",
    "id" : "String",
    "icon_url" : "String",
    "last_name" : "String",
    "uri" : "String - URI",
    "type" : "String"
  },
  "effective_rights" : {
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
  }
}

```



```
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true
  },
  "explicit_allow_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "explicit_deny_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_allow_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_deny_rights" : { // Optional
    "read_access" : true,
    "write_access" : true,
    "move_access" : true,
    "delete_access" : true,
    "change_rights" : true,
    "create_sub_entities" : true,
    "create_references" : true,
    "change_security_class" : true,
    "change_status" : true,
    "change_retention" : true,
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  }
}
```

*Fields*

|                        |                              |   |
|------------------------|------------------------------|---|
| id                     | String                       | The identifier of the access right.   |
| type                   | String                       | The type of the access right.<br>The set of values:<br>- DIRECTORY<br>- ATTRIBUTE (IMiS®/ARChive Server 9.9 or higher). |
| subject                | String                       | The identifier of the directory entity or an attribute.   |
| links                  | <a href="#">Link</a> []      | Links on the entity access right (optional). The set of links:<br>- entity:acl:entry#edit<br>- entity:acl:entry#delete. |
| directory_entity       | ObjectLink                   | Link to the user or group.  |
| effective_rights       | <a href="#">EntityRights</a> | Effective rights of the entity.   |
| explicit_allow_rights  | <a href="#">EntityRights</a> | Explicit allow rights to access the entity (optional).  |
| explicit_deny_rights   | <a href="#">EntityRights</a> | Explicit deny rights to access the entity (optional).   |
| inherited_allow_rights | <a href="#">EntityRights</a> | Inherited allow rights to access the entity (optional).   |
| inherited_deny_rights  | <a href="#">EntityRights</a> | Inherited deny rights to access the entity (optional).  |

**5.2.53 EntityACLEntryRequest**

Object provides request on entity explicit access rights information.

*Definition*

```
{
  "entity_acl_entry" : {
    "explicit_allow_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "read_access" : true, // Optional
      "write_access" : true, // Optional
      "move_access" : true, // Optional
      "delete_access" : true, // Optional
      "change_rights" : true, // Optional
      "create_sub_entities" : true, // Optional
      "change_security_class" : true, // Optional
      "change_status" : true, // Optional
      "change_retention" : true // Optional
    },
    "explicit_deny_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "read_access" : true, // Optional
      "write_access" : true, // Optional
      "move_access" : true, // Optional
      "delete_access" : true, // Optional
      "change_rights" : true, // Optional
      "create_sub_entities" : true, // Optional
      "change_security_class" : true, // Optional
      "change_status" : true, // Optional
      "change_retention" : true // Optional
    }
  }
}
```

*Fields*

|           |                                      |  |
|-----------|--------------------------------------|--|
| acl_entry | <a href="#">EntityACLEntryUpdate</a> | Explicit allow and deny rights to update the entity. |
|-----------|--------------------------------------|--|

**5.2.54 EntityACLRequest**

Object provides request on entity and its properties explicit access rights information.

*Definition*

```
{
  "acl" : {
    "entries" : [{ // Optional
      "subject" : "String",
      "type" : "String",
      "explicit_allow_rights" : { // Optional
        "valid_from" : "String - DateTime", // Optional
        "valid_to" : "String - DateTime", // Optional
        "read_access" : true, // Optional
        "write_access" : true, // Optional
        "move_access" : true, // Optional
        "delete_access" : true, // Optional
        "change_rights" : true, // Optional
        "create_sub_entities" : true, // Optional
        "create_references" : true, // Optional
        "change_security_class" : true, // Optional
        "change_status" : true, // Optional
        "change_retention" : true // Optional
      },
      "explicit_deny_rights" : { // Optional
        "valid_from" : "String - DateTime", // Optional
        "valid_to" : "String - DateTime", // Optional
        "read_access" : true, // Optional
        "write_access" : true, // Optional
        "move_access" : true, // Optional
        "delete_access" : true, // Optional
        "change_rights" : true, // Optional
        "create_sub_entities" : true, // Optional
        "create_references" : true, // Optional
        "change_security_class" : true, // Optional
        "change_status" : true // Optional
        "change_retention" : true // Optional
      }
    ]
  }
  "property_entries" : [{ // Optional
    "property_id" : "String",
    "entries" : [{ // Optional
      "subject" : "String",
      "type" : "String",
      "explicit_allow_rights" : { // Optional
        "valid_from" : "String - DateTime", // Optional
        "valid_to" : "String - DateTime", // Optional
        "create_access" : true, // Optional
        "delete_access" : true, // Optional
        "read_access" : true, // Optional
        "write_access" : true // Optional
      },
      "explicit_deny_rights" : { // Optional
        "valid_from" : "String - DateTime", // Optional
        "valid_to" : "String - DateTime", // Optional
        "create_access" : true, // Optional
        "delete_access" : true, // Optional
        "read_access" : true, // Optional
        "write_access" : true // Optional
      }
    ]
  }
}
```

```

    }
  ]
}
}
}
}

```

*Fields*

|     |                                 |  |
|-----|---------------------------------|--|
| Acl | <a href="#">EntityACLCreate</a> | The explicit right to create entity and entity properties. |
|-----|---------------------------------|--|

**5.2.55 EntityACLResponse**

Object provides information on entity and its properties access rights.

*Definition*

```

{
  "acl" : {
    "entries" : [],
    "property_entries" : []
  }
}

```

*Fields*

|     |                           |   |
|-----|---------------------------|---|
| Acl | <a href="#">EntityACL</a> | The right to access the entity and entity properties. |
|-----|---------------------------|---|

**5.2.56 EntityACLEntryCreate**

Object creates the explicit access rights of the entity.

*Definition*

```

{
  "subject" : "String",
  "type" : "String",
  "explicit_allow_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "read_access" : true, // Optional
    "write_access" : true, // Optional
    "move_access" : true, // Optional
    "delete_access" : true, // Optional
    "change_rights" : true, // Optional
    "create_sub_entities" : true, // Optional
    "create_references" : true, // Optional
    "change_security_class" : true, // Optional
    "change_status" : true, // Optional
    "change_retention" : true // Optional
  },
  "explicit_deny_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "read_access" : true, // Optional
    "write_access" : true, // Optional
    "move_access" : true, // Optional
    "delete_access" : true, // Optional
    "change_rights" : true, // Optional
    "create_sub_entities" : true, // Optional
    "change_security_class" : true, // Optional
  }
}

```

```

    "change_status" : true, // Optional
    "change_retention" : true // Optional
  }
}

```

### Fields

|                       |                              |  |
|-----------------------|------------------------------|--|
| subject               | String                       | The unique identifier of the directory entity or attribute.                        |
| type                  | String                       | The type of the access right.<br>The set of values:<br>- DIRECTORY<br>- ATTRIBUTE. |
| explicit_allow_rights | <a href="#">EntityRights</a> | Explicit allow rights to access the entity (optional).                             |
| explicit_deny_rights  | <a href="#">EntityRights</a> | Explicit deny rights to access the entity (optional).                              |

## 5.2.57 EntityACLEntryUpdate

Object updates an entity explicit access rights.

### Definition

```

{
  "explicit_allow_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "read_access" : true, // Optional
    "write_access" : true, // Optional
    "move_access" : true, // Optional
    "delete_access" : true, // Optional
    "change_rights" : true, // Optional
    "create_sub_entities" : true, // Optional
    "change_security_class" : true, // Optional
    "change_status" : true, // Optional
    "change_retention" : true // Optional
  },
  "explicit_deny_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "read_access" : true, // Optional
    "write_access" : true, // Optional
    "move_access" : true, // Optional
    "delete_access" : true, // Optional
    "change_rights" : true, // Optional
    "create_sub_entities" : true, // Optional
    "change_security_class" : true, // Optional
    "change_status" : true, // Optional
    "change_retention" : true // Optional
  }
}

```

### Fields

|                       |                              |  |
|-----------------------|------------------------------|--|
| explicit_allow_rights | <a href="#">EntityRights</a> | Explicit allow rights to access the entity (optional). |
| explicit_deny_rights  | <a href="#">EntityRights</a> | Explicit deny rights to access the entity (optional).  |

### 5.2.58 EntityACLEntryResponse

Object provides information on the entity access rights.

#### Definition

```
{
  "entity_acl_entry" : {
  }
}
```

#### Fields

|           |                                |  |
|-----------|--------------------------------|--|
| acl_entry | <a href="#">EntityACLEntry</a> | Explicit and inherited access right to the entity and entity properties. |
|-----------|--------------------------------|--|

### 5.2.59 EntityClassificationCodeUpdateRequest

The object provides information on the request to change the entity classification code.

#### Definition

```
{
  "classification_code" : "String",
  "reason" : "String"
}
```

#### Fields

|                     |        |   |
|---------------------|--------|---|
| classification_code | String | The canonical form of the full classification code. |
| reason              | String | The reason for classification code change.          |

### 5.2.60 EntityClassificationCodeUpdateResponse

The object provides information on the response to changing the entity classification code.

#### Definition

```
{
  "classification_code" : "String",
  "public_classification_code" : "String"
}
```

#### Fields

|                            |        |  |
|----------------------------|--------|--|
| classification_code        | String | The canonical form of the full classification code.      |
| public_classification_code | String | Entity classification code in the classification scheme. |

## 5.2.61 EntityContentOption

Object provides information on entity content properties.

### Definition

```
{
  "container_id" : "String",
  "effective_rights" : {
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
  },
  "public" : false,
  "read_only" : false,
  "read_only_after_check_in" : false,
  "read_only_after_create" : false,
  "signature_disposition" : "String",
  "versionable" : false
}
```

### Fields

|                          |                                |   |
|--------------------------|--------------------------------|---|
| container_id             | String                         | The unique identifier of additional entity content object container (optional). |
| label                    | String                         | The content label.  |
| description              | String                         | The description of the content.   |
| effective_rights         | <a href="#">PropertyRights</a> | Effective rights to access the content (optional).                              |
| append_only              | Boolean                        | The content value can only append.  |
| included_in_aip          | Boolean                        | The content value is part of the archival information package.                  |
| multi_value              | Boolean                        | The content has multiple values.  |
| public                   | Boolean                        | Specifies whether the content is public.  |
| read_only                | Boolean                        | Specifies whether the content is read-only.                                     |
| read_only_after_check_in | Boolean                        | Specifies whether the content is read-only after check in.                      |
| read_only_after_create   | Boolean                        | Specifies whether the content is read-only after create.                        |
| required                 | Boolean                        | The content is required.  |
| searchable               | Boolean                        | The content value is searchable.  |

|                       |         |   |
|-----------------------|---------|---|
| signature_disposition | String  | Status of the digitally signed content.<br>The set of values (optional):<br><br>- SIGNED: only the digitally signed content which IMiS®/ARCHive Server can verify is allowed.<br><br>- VALID: only the digitally signed content which IMiS®/ARCHive Server can verify and which is valid at the moment of verification is allowed (a valid digital signature, a certificate valid at the moment of verification, etc.). |
| versionable           | Boolean | Specifies whether the content is versionable.   |

## 5.2.62 EntityCreate

Object creates an entity.

### Definition

```
{
  "template" : "String",
  "title" : "String",
  "classification_code" : "String",
  "status" : {
    "inherited" : true,
    "value" : "String"
  },
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  },
  "child_classification_code_mode" : "String - AUTOMATIC/MANUAL/MANUAL_OPTIONAL",
  "description" : "String",
  "owner" : "String",
  "objects" : [{
    "container_id" : "String",
    "description" : "String",
    "content_type" : "String",
    "content" : "String - Base64"
  }],
  "significance" : {
    "inherited" : true,
    "value" : "String"
  },
  "external_ids" : ["String"],
  "keywords" : ["String"],
  "categories" : ["String"],
  "properties" : [{
    "id" : "String",
    "inherited" : false,
    "values" : [T]
  }],
  "retention" : {
    "policies" : [{
      "id" : "String",
      "name" : "String",
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "folders" : true,
        "documents" : true
      }
    }
  ]
},
  "disposition_holds" : [{
```



```

    "id" : "String"
    "name" : "String"
  ]]
},
"email_properties" : {
  "subject" : "String",
  "from" : "String",
  "to" : ["String"],
  "cc" : ["String"],
  "bcc" : ["String"],
  "date" : "String - DateTime",
  "message_id" : "String",
  "priority" : "String",
  "signed" : true
},
"physical_properties" : {
  "current_location" : "String",
  "custodian" : "String",
  "description" : "String",
  "home_location" : "String",
  "id" : "String",
  "return_due" : "String - Date",
  "status" : "String"
}
}

```

### Fields

|                                |   |   |
|--------------------------------|---|---|
| template                       | String                                  | The unique identifier of the template.  |
| title                          | String                                  | The title of the entity.  |
| classification_code            | String                                  | The canonical form of the full classification code (optional).  |
| status                         | <a href="#">InheritedStringProperty</a> | The status of the entity (optional).  |
| security_class                 | <a href="#">InheritedStringProperty</a> | The security class of the entity (optional).  |
| child_classification_code_mode | String                                  | Child entity classification code generation (optional). The set of values:<br>- AUTOMATIC<br>- MANUAL<br>- MANUAL_OPTIONAL. |
| description                    | String                                  | A description of the entity. (optional)   |
| owner                          | String                                  | The owner of the entity (optional).   |
| objects                        | <a href="#">EntityCreateObject</a> []   | A collection of the entity objects (optional).  |
| significance                   | <a href="#">InheritedStringProperty</a> | The significance of the entity (optional).  |
| external_ids                   | String []                               | External identifier of the entity.  |
| keywords                       | String []                               | Keywords of the entity.   |
| categories                     | String []                               | Categories of the entity.   |

|                     |  |   |
|---------------------|--|---|
| properties          | <a href="#">EntityPropertyUpdate</a> []  | Entity properties.  |
| retention           | <a href="#">EntityRetentionCreate</a>    | Retention policies and disposition holds.                               |
| email_properties    | <a href="#">EmailProperties</a>          | Email properties.<br>Compatibility: IMiS®/ARCHive Server 9.10 or lower. |
| physical_properties | <a href="#">PhysicalPropertiesUpdate</a> | Physical content properties.  |

### 5.2.63 EntityCreateObject

Object provides information on entity object create.

#### Definition

```
{
  "container_id" : "String",
  "content" : "String - Base64",
  "content_type" : "String",
  "description" : "String",
}
```

#### Fields

|              |                 |   |
|--------------|-----------------|---|
| container_id | String          | The unique identifier of the content object container (optional). |
| content      | String - Base64 | The content in Base64 format.                                     |
| content_type | String          | Content object type.  |
| description  | String          | Content description (optional).                                   |

### 5.2.64 EntityCreateRequest

Object provides request on entity create.

#### Definition

```
{
  "entity_create" : {
    "template" : "String",
    "title" : "String",
    "classification_code" : "String",
    ...
  }
}
```

#### Fields

|               |                              |                  |
|---------------|------------------------------|------------------|
| entity_create | <a href="#">EntityCreate</a> | Entity creation. |
|---------------|------------------------------|------------------|

### 5.2.65 EntityMoveRequest

Object provides request on entity move.

#### Definition

```
{
  "classification_code" : "String"
  "reason" : "String"
}
```

#### Fields

|                     |        |  |
|---------------------|--------|--|
| classification_code | String | The canonical form of the full classification code (optional). |
| reason              | String | The reason for entity move.                                    |

### 5.2.66 EntityNonrepudiation

Object provides information on entity authenticity and integrity proofs (AIP and ERS).

#### Definition

```
{
  "archival_information_package" : "String - Base64",
  "evidence_records" : [
    "String - Base64",
    "String - Base64"
  ]
}
```

#### Fields

|                              |                    |                                     |
|------------------------------|--------------------|-------------------------------------|
| archival_information_package | String - Base64    | Archival information package (AIP). |
| evidence_records             | String - Base64 [] | Evidence records (ERS).             |

### 5.2.67 EntityNonrepudiationResponse

Object provides information on entity authenticity and integrity proofs (AIP and ERS).

#### Definition

```
{
  "nonrepudiation" : {
    "archival_information_package" : "String - Base64",
    "evidence_records" : [
      "String - Base64",
      "String - Base64"
    ]
  }
}
```

*Fields*

|                |                                      |   |
|----------------|--------------------------------------|---|
| nonrepudiation | <a href="#">EntityNonrepudiation</a> | Entity authenticity and integrity proofs (AIP and ERS). |
|----------------|--------------------------------------|---|

**5.2.68 EntityOpenResponse**

Object provides information on entity open.

*Definition*

```
{
  "handle" : "String"
}
```

*Fields*

|        |        |   |
|--------|--------|---|
| handle | String | The unique identifier of the open entity. |
|--------|--------|---|

**5.2.69 EntityProperty**

Object provides information on entity property.

*Definition*

```
{
  "id" : "String",
  "description" : "String",
  "type" : "String - T",
  "options" : {...},
  "values" : [T],
  "effective_rights" : {...},
  "inherited" : false,
  "label" : "String"
}
```

*Fields*

|                  |                                 |   |
|------------------|---------------------------------|---|
| id               | String                          | The unique name of the entity property.   |
| description      | String                          | A description of the entity property.   |
| type             | String                          | Entity property type.   |
| options          | <a href="#">PropertyOptions</a> | Entity property options.  |
| values           | T                               | The attribute property value. The value is dynamic based on the type of metadata. |
| effective_rights | <a href="#">PropertyRights</a>  | Effective entity property access rights (optional).                               |
| inherited        | Boolean                         | Specifies whether the metadata value is inherited.                                |
| label            | String                          | The property label.   |

## 5.2.70 EntityPropertyACL

Object provides information on entity property access rights.

### Definition

```

{
  "property_id" : "String",
  "entries" : [{
    "id" : "String",
    "type" : "String",
    "directory_entity" : {
      "email" : "String",
      "first_name" : "String",
      "id" : "String",
      "icon_url" : "String",
      "last_name" : "String",
      "uri" : "String - URI",
      "type" : "String"
    },
    "effective_rights" : {
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
    },
    "explicit_allow_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    },
    "explicit_deny_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    },
    "inherited_allow_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    },
    "inherited_deny_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
      "valid from" : "String - DateTime", // Optional
      "valid to" : "String - DateTime" // Optional
    }
  ],
}
]
}

```

*Fields*

|             |   |   |
|-------------|---|---|
| property_id | String                                    | The unique identifier of the entity property. |
| entries     | <a href="#">EntityPropertyACLEntry</a> [] | Entity property access right.                 |

**5.2.71 EntityPropertyACLCreate**

Object creates and entity property access rights.

*Definition*

```
{
  "property_id" : "String",
  "entries" : [{ // Optional
    "directory_entity_id" : "String",
    "explicit_allow_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    },
    "explicit_deny_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    }
  ]
}
```

*Fields*

|             |   |   |
|-------------|---|---|
| property_id | String  | The unique identifier of the entity property. |
| entries     | <a href="#">EntityPropertyACLEntryCreate</a> [] | The right to create entity property.          |

**5.2.72 EntityPropertyACLEntry**

Object provides information on entity property explicit and inherited access rights.

*Definition*

```
{
  "id" : "String",
  "subject" : "String",
  "type" : "String",
  "links" : [{
    "type" : "entity:acl:property_entry#edit",
    "uri" : "String - URI"
  }, {
    "type" : "entity:acl:property_entry#delete",
    "uri" : "String - URI"
  }
  ],
  "direcory_entity" : {
    "email" : "String",
    "first_name" : "String",
  }
}
```

```

    "id" : "String",
    "icon_url" : "String",
    "last_name" : "String",
    "uri" : "String - URI",
    "type" : "String"
  },
  "effective_rights" : {
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
  },
  "explicit_allow_rights" : { // Optional
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "explicit_deny_rights" : { // Optional
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_allow_rights" : { // Optional
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
  "inherited_deny_rights" : { // Optional
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime" // Optional
  },
}

```

*Fields*

|         |                         |  |
|---------|-------------------------|--|
| id      | String                  | The identifier of the entity access right.   |
| type    | String                  | The type of entity access right. The set of values:<br>- DIRECTORY<br>- ATTRIBUTE (IMiS®/ARChive Server 9.9 or higher).                  |
| subject | String                  | The unique identifier of the directory entity or attribute.  |
| links   | <a href="#">Link</a> [] | Links to the entity property (optional).<br>The set of links:<br>- entity:acl:property_entry#edit<br>- entity:acl:property_entry#delete. |

|                        |                                     |  |
|------------------------|-------------------------------------|--|
| directory_entity       | <a href="#">DirectoryEntityLink</a> | The unique identifier of the directory entity.                   |
| effective_rights       | <a href="#">PropertyRights</a>      | Directory entity effective rights to access the entity property. |
| explicit_allow_rights  | <a href="#">PropertyRights</a>      | Explicit allow rights to access entity property (optional).      |
| explicit_deny_rights   | <a href="#">PropertyRights</a>      | Explicit deny rights to access entity property (optional).       |
| inherited_allow_rights | <a href="#">PropertyRights</a>      | Inherited allow rights to access entity property (optional).     |
| inherited_deny_rights  | <a href="#">PropertyRights</a>      | Inherited deny rights to access entity property (optional).      |

### 5.2.73 EntityPropertyACLEntryResponse

Object provides information on entity property explicit and inherited access rights.

#### Definition

```
{
  "property_acl_entry" : {...}
}
```

#### Fields

|                    |  |  |
|--------------------|--|--|
| property_acl_entry | <a href="#">EntityPropertyACLEntry</a> | The right to access the entity property. |
|--------------------|--|--|

### 5.2.74 EntityPropertyACLEntryRequest

Object provides request on entity property explicit access rights information.

#### Definition

```
{
  "property_acl_entry" : {
    "explicit_allow_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    },
    "explicit_deny_rights" : { // Optional
      "valid_from" : "String - DateTime", // Optional
      "valid_to" : "String - DateTime", // Optional
      "create_access" : true, // Optional
      "delete_access" : true, // Optional
      "read_access" : true, // Optional
      "write_access" : true // Optional
    }
  }
}
```



*Fields*

|                    |  |  |
|--------------------|--|--|
| property_acl_entry | <a href="#">EntityPropertyACLEntryUpdate</a> | The right to update the entity property. |
|--------------------|--|--|

**5.2.75 EntityPropertyACLEntryCreate**

Object creates an entity property access rights.

*Definition*

```
{
  "subject" : "String",
  "type" : "String",
  "explicit_allow_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "create_access" : true, // Optional
    "delete_access" : true, // Optional
    "read_access" : true, // Optional
    "write_access" : true // Optional
  },
  "explicit_deny_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "create_access" : true, // Optional
    "delete_access" : true, // Optional
    "read_access" : true, // Optional
    "write_access" : true // Optional
  }
}
```

*Fields*

|                       |                                |   |
|-----------------------|--------------------------------|---|
| subject               | String                         | The unique identifier of the directory entity or attribute.                           |
| type                  | String                         | The type of entity access right.<br>The set of values:<br>- DIRECTORY<br>- ATTRIBUTE. |
| explicit_allow_rights | <a href="#">PropertyRights</a> | Explicit allow rights to access entity property.                                      |
| explicit_deny_rights  | <a href="#">PropertyRights</a> | Explicit deny rights to access entity property.                                       |

## 5.2.76 EntityPropertyACLEntryUpdate

Object updates an entity property access rights.

### Definition

```
{
  "explicit_allow_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "create_access" : true, // Optional
    "delete_access" : true, // Optional
    "read_access" : true, // Optional
    "write_access" : true // Optional
  },
  "explicit_deny_rights" : { // Optional
    "valid_from" : "String - DateTime", // Optional
    "valid_to" : "String - DateTime", // Optional
    "create_access" : true, // Optional
    "delete_access" : true, // Optional
    "read_access" : true, // Optional
    "write_access" : true // Optional
  }
}
```

### Fields

|                       |                                |  |
|-----------------------|--------------------------------|--|
| explicit_allow_rights | <a href="#">PropertyRights</a> | Explicit allow rights to update entity property. |
| explicit_deny_rights  | <a href="#">PropertyRights</a> | Explicit deny rights to update entity property.  |

## 5.2.77 EntityPropertyUpdate

Object updates an entity property.

### Definition

```
{
  "id" : "String",
  "inherited" : false,
  "values" : [T]
}
```

*Fields*

|           |           |   |
|-----------|-----------|---|
| id        | String    | The unique identifier of the entity property.       |
| inherited | Boolean   | Specifies whether the entity property is inherited. |
| value     | String [] | The attribute property value. The value is dynamic. |

**5.2.78 EntityReference**

Object provides information on entity reference.

*Definition*

```
{
  "created" : "",
  "creator" : {},
  "description" : "",
  "effective_rights" : {},
  "entities" : [ ... ],
  "id" : "",
  "title" : ""
}
```

*Fields*

|                  |                                     |   |
|------------------|-------------------------------------|---|
| created          | String                              | Date and time of the entity reference creation.           |
| creator          | <a href="#">DirectoryEntityLink</a> | The author of the entity reference.                       |
| description      | String                              | The description of the reference (optional).              |
| effective_rights | <a href="#">EntityRights</a>        | Effective rights of current user on the entity reference. |
| entities         | <a href="#">EntityStub</a> []       | The collection of entities.                               |
| id               | String                              | The unique identifier of the entity reference.            |
| title            | String                              | The title of the entity reference (optional).             |

**5.2.79 EntityReferenceCreateEntry**

Object provides information on entity reference identifier.

*Definition*

```
{
  "id_type" : "",
  "value" : ""
}
```

*Fields*

|         |        |   |
|---------|--------|---|
| id_type | String | The entity reference identifier type.<br>The set of values:<br>- C<br>- E<br>- I. |
| value   | String | The identifier value.   |

**5.2.80 EntityReferenceCreateRequest**

Object provides request on entity reference create.

*Definition*

```
{
  "description" : "",
  "entries" : [ ... ],
  "title" : ""
}
```

*Fields*

|             |   |   |
|-------------|---|---|
| description | String  | The description of the entity reference (optional). |
| entries     | <a href="#">EntityReferenceCreateEntry</a> [] | The collection of entity references identifiers.    |
| title       | String  | The title of the entity reference (optional).       |

**5.2.81 EntityReferenceResponse**

Object provides information on entity reference.

*Definition*

```
{
  "reference" : {...}
}
```

*Fields*

|           |                                 |                                   |
|-----------|---------------------------------|-----------------------------------|
| reference | <a href="#">EntityReference</a> | The entity reference information. |
|-----------|---------------------------------|-----------------------------------|

**5.2.82 EntityReferencesResponse**

Object provides information on entity references.

*Definition*

```
{
  "references" : [...]
}
```

*Fields*

|            |                                    |                                      |
|------------|------------------------------------|--------------------------------------|
| references | <a href="#">EntityReference</a> [] | The collection of entity references. |
|------------|------------------------------------|--------------------------------------|

**5.2.83 EntityResponse**

Object provides entity information.

*Definition*

```
{
  "entity" : {...},
  "save_report" : "String"
}
```

*Fields*

|             |                        |                     |
|-------------|------------------------|---------------------|
| entity      | <a href="#">Entity</a> | Entity information. |
| save_report | String                 | Entity save log.    |

**5.2.84 EntityRetention**

Object provides information on entity retention policies and disposition holds.

*Definition*

```
{
  "policies" : [{
    "id" : "String",
    "uri" : "String - URI",
    "name" : "String",
    "description" : "String",
    "explicit_context" : {
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "folders" : true,
        "documents" : true
      }
    },
    "effective" : true
  }],
  "inherited_context" : [{
    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "folders" : true,
      "documents" : true
    },
    "effective" : true
  }],
  "links" : [{
    "type" : "retention_policy#edit",
    "uri" : "String - URI",
  }, {
    "type" : "retention_policy#delete",
    "uri" : "String - URI",
  }
]
}
```

```

    ],
    "disposition_holds" : [{
      "id" : "String",
      "uri" : "String - URI",
      "name" : "String",
      "description" : "String",
      "links" : [{
        "type" : "disposition_hold#delete",
        "uri" : "String - URI",
      }]
    }]
  }
]
}

```

*Fields*

|                   |  |                            |
|-------------------|--|----------------------------|
| polices           | <a href="#">EntityRetentionPolicyEntry</a> []          | Entity retention policies. |
| disposition_holds | <a href="#">EntityRetentionDispositionHoldEntry</a> [] | Entity disposition holds.  |

### 5.2.85 EntityRetentionCreate

Object creates the entity retention policies and disposition holds.

*Definition*

```

{
  "polices" : [],
  "disposition_holds" : []
}

```

*Fields*

|                   |   |                            |
|-------------------|---|----------------------------|
| polices           | <a href="#">EntityRetentionPolicyEntryCreate</a> []     | Entity retention policies. |
| disposition_holds | <a href="#">EntityRetentionDispositionHoldCreate</a> [] | Entity disposition holds.  |

### 5.2.86 EntityRetentionDispositionHoldCreate

Object creates an entity disposition hold.

*Definition*

```

{
  "id" : "String",
  "name" : "String"
}

```

*Fields*

|      |        |   |
|------|--------|---|
| id   | String | The unique identifier of the entity disposition hold (optional, if field <i>name</i> is defined). |
| name | String | The name of the entity disposition hold (optional if field <i>id</i> is defined).                 |

## 5.2.87 EntityRetentionDispositionHoldEntry

Object provides information on entity disposition hold.

### Definition

```
{
  "id" : "String",
  "uri" : "String - URI",
  "name" : "String",
  "description" : "String",
  "inherited" : false,
  "links" : [{
    "type" : "disposition_hold#delete",
    "uri" : "String - URI",
  }]
}
```

### Fields

|             |                         |  |
|-------------|-------------------------|--|
| id          | String                  | The unique identifier of the disposition hold.                             |
| uri         | String                  | The unique identifier of the link to the disposition hold.                 |
| name        | String                  | The unique name of the disposition hold.                                   |
| description | String                  | A description of the disposition hold.                                     |
| inherited   | Boolean                 | Specifies whether the disposition hold is inherited.                       |
| links       | <a href="#">Link</a> [] | Links on disposition hold. The set of links:<br>- disposition_hold#delete. |

## 5.2.88 EntityRetentionDispositionHoldsRequest

Object provides request on entity disposition holds.

### Definition

```
{
  "disposition_holds" : [{
    "id" : "String",
    "name" : "String"
  }]
}
```

### Fields

|                   |   |                           |
|-------------------|---|---------------------------|
| disposition_holds | <a href="#">EntityRetentionDispositionHoldCreate</a> [] | Entity disposition holds. |
|-------------------|---|---------------------------|

### 5.2.89 EntityRetentionDispositionHoldsResponse

Object provides information on entity disposition holds.

#### Definition

```
{
  "disposition_holds" : []
}
```

#### Fields

|                   |  |                           |
|-------------------|--|---------------------------|
| disposition_holds | <a href="#">EntityRetentionDispositionHoldEntry</a> [] | Entity disposition holds. |
|-------------------|--|---------------------------|

### 5.2.90 EntityRetentionPoliciesRequest

Object provides request on the entity retention policies.

#### Definition

```
{
  "retention_policies" : [{
    "id" : "String",
    "name" : "String",
    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "documents" : true,
      "folders" : true
    }
  }]
}
```

#### Fields

|                    |   |   |
|--------------------|---|---|
| retention_policies | <a href="#">EntityRetentionPolicyEntryCreate</a> [] | The information on entity retention policies. |
|--------------------|---|---|

### 5.2.91 EntityRetentionPoliciesResponse

Object provides information on entity retention policies.

#### Definition

```
{
  "retention_policies" : []
}
```

#### Fields

|                    |   |   |
|--------------------|---|---|
| retention_policies | <a href="#">EntityRetentionPolicyEntry</a> [] | The information on entity retention policies. |
|--------------------|---|---|



## 5.2.92 EntityRetentionPolicyContext

Object provides information on entity retention policy context.

### Definition

```
{
  "scope" : "String - ALLOW/DENY",
  "filter" : {
    "classes" : true,
    "folders" : true,
    "documents" : true
  },
  "effective" : true
}
```

### Fields

|           |  |  |
|-----------|--|--|
| scope     | String   | Scope of the entity explicit retention policy.<br>The set of values:<br>- ALLOW<br>- DENY. |
| filter    | <a href="#">EntityRetentionPolicyContextFilter</a> | Entity types that apply to the retention policy.   |
| effective | Boolean  | Entity effective retention policy.   |

## 5.2.93 EntityRetentionPolicyContextFilter

Object provides information on entity retention policy context filter.

### Definition

```
{
  "classes" : true,
  "folders" : true,
  "documents" : true
}
```

### Fields

|           |         |                       |
|-----------|---------|-----------------------|
| classes   | Boolean | CLASS entity type.    |
| folders   | Boolean | FOLDER entity type.   |
| documents | Boolean | DOCUMENT entity type. |

## 5.2.94 EntityRetentionPolicyEntry

Object provides information on entity retention policy.

### Definition

```
{
  "id" : "String",
  "uri" : "String - URI",
  "name" : "String",
  "description" : "String",
  "explicit_context" : {
    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "folders" : true,
      "documents" : true
    },
    "effective" : true
  },
  "inherited_context" : [{
    "scope" : "String - ALLOW/DENY",
    "filter" : {
      "classes" : true,
      "folders" : true,
      "documents" : true
    },
    "effective" : true
  }
],
  "links" : [{
    "type" : "retention_policy#edit",
    "uri" : "String - URI",
  }, {
    "type" : "retention_policy#delete",
    "uri" : "String - URI",
  }
]
}
```

### Fields

|                   |   |   |
|-------------------|---|---|
| id                | String  | The unique identifier of the entity retention policy.   |
| uri               | String  | The unique identifier of the link to the entity retention policy.   |
| name              | String  | The name of the entity retention policy.  |
| description       | String  | A description of the entity retention policy.   |
| explicit_context  | <a href="#">EntityRetentionPolicyContext</a>    | Explicit context of the retention policy.   |
| inherited_context | <a href="#">EntityRetentionPolicyContext</a> [] | Inherited context of the retention policy.  |
| links             | <a href="#">Link</a> []                         | Links to the entity retention policy.<br>The set of links:<br>- retention_policy#edit<br>- retention_policy#delete. |

### 5.2.95 EntityRetentionPolicyEntryCreate

Object creates an entity retention policy.

#### Definition

```
{
  "id" : "String",
  "name" : "String",
  "scope" : "String - ALLOW/DENY",
  "filter" : {
    "classes" : true,
    "documents" : true,
    "folders" : true
  }
}
```

#### Fields

|        |  |   |
|--------|--|---|
| id     | String   | The unique identifier of the entity retention policy.                             |
| name   | String   | The name of the entity retention policy.  |
| filter | <a href="#">EntityRetentionPolicyContextFilter</a> | Entity types that apply to the retention policy.                                  |
| scope  | String   | Scope of the entity retention policy.<br>The set of values:<br>- ALLOW<br>- DENY. |

### 5.2.96 EntityRetentionPolicyEntriesUpdateRequest

Object provides request on update the collection of retention policies.

#### Definition

```
{
  "retention_policies": [{
    "id": "String ",
    "scope": "String - ALLOW/DENY",
    "filter": {
      "classes": true,
      "folders": true,
      "documents": true
    }
  }
]
```

#### Fields

|                    |   |  |
|--------------------|---|--|
| retention_policies | <a href="#">EntityRetentionPolicyEntryUpdate</a> [] | The information on retention policies. |
|--------------------|---|--|

## 5.2.97 EntityRetentionPolicyEntriesUpdateResponse

Object provides information on entity retention policy update.

### Definition

```
{
  "retention_policies": [{
    "id": "String",
    "uri": "String - URI",
    "name": "String",
    "description": "String",
    "explicit_context": {
      "scope": "String - ALLOW/DENY",
      "filter": {
        "classes": true,
        "folders": true,
        "documents": true
      },
      "effective": true
    },
    "inherited_context": [{
      "scope": "String - ALLOW/DENY",
      "filter": {
        "classes": true,
        "folders": true,
        "documents": true
      },
      "effective": true
    }
  ],
  "links": [{
    "type": "retention_policy#edit",
    "uri": "String - URI",
  }, {
    "type": "retention_policy#delete",
    "uri": "String - URI",
  }
]
}
}
```

### Fields

|                    |   |  |
|--------------------|---|--|
| retention_policies | <a href="#">EntityRetentionPolicyEntry</a> [] | The information on retention policies. |
|--------------------|---|--|

### 5.2.98 EntityRetentionPolicyEntryUpdate

Object updates an entity retention policy.

*Definition*

```
{
  "id": "String",
  "scope": "String - ALLOW/DENY",
  "filter": {
    "classes" : true,
    "folders" : true,
    "documents" : true
  }
}
```

*Fields*

|        |  |   |
|--------|--|---|
| id     | String   | The unique identifier of the retention policy.  |
| scope  | String   | The scope of the entity retention policy context.<br>The set of values:<br>- ALLOW<br>- DENY. |
| filter | <a href="#">EntityRetentionPolicyContextFilter</a> | Entity types that apply to the retention policy.  |

### 5.2.99 EntityRetentionPolicyEntryRequest

Object provides request to the entity retention policy.

*Definition*

```
{
  "retention_policy": {
    "scope": "String - ALLOW/DENY",
    "filter": {
      "classes" : true,
      "folders" : true,
      "documents" : true
    }
  }
}
```

*Fields*

|                  |  |                          |
|------------------|--|--------------------------|
| retention_policy | <a href="#">EntityRetentionPolicyEntryUpdate</a> | Entity retention policy. |
|------------------|--|--------------------------|

## 5.2.100 EntityRetentionPolicyEntryResponse

Object provides information on entity retention policy.

### Definition

```
{
  "retention_policy": {
    "id" : "String",
    "uri" : "String - URI",
    "name" : "String",
    "description" : "String",
    "explicit_context" : {
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "folders" : true,
        "documents" : true
      },
      "effective" : true
    },
    "inherited_context" : [{
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "folders" : true,
        "documents" : true
      },
      "effective" : true
    }
  ],
  "links" : [{
    "type" : "retention_policy#edit",
    "uri" : "String - URI",
  }, {
    "type" : "retention_policy#delete",
    "uri" : "String - URI",
  }
]
}
```

### Fields

|                  |  |                          |
|------------------|--|--------------------------|
| retention_policy | <a href="#">EntityRetentionPolicyEntry</a> | Entity retention policy. |
|------------------|--|--------------------------|

## 5.2.101 EntityRights

Object provides information on entity access rights.

### Definition

```
{
  "read_access" : true,
  "write_access" : true,
  "move_access" : true,
  "delete_access" : true,
  "change_rights" : true,
  "create_sub_entities" : true,
  "create_references" : true,
  "change_security_class" : true,
  "change_status" : true,
  "change_retention" : true,
  "valid_from" : "String - DateTime",
  "valid_to" : "String - DateTime",
  "delegate_context" : true,
  "enabled_for_subtree" : true,
  "enabled_for_this" : true,
  "directory_entity" : {
    "id": "String"
    ...
  }
}
```

### Fields

|                       |                                     |  |
|-----------------------|-------------------------------------|--|
| read_access           | Boolean                             | The right to read the entity.  |
| write_access          | Boolean                             | The right to write the entity.   |
| move_access           | Boolean                             | The right to move the entity.  |
| delete_access         | Boolean                             | The right to delete the entity.  |
| change_rights         | Boolean                             | The right to change entity access rights.  |
| create_sub_entities   | Boolean                             | The right to create sub-entities.  |
| create_references     | Boolean                             | The right to create references.  |
| change_security_class | Boolean                             | The right to change entity security class.   |
| change_status         | Boolean                             | The right to change entity status.   |
| change_retention      | Boolean                             | The right to change entity retention policies and disposition holds.   |
| directory_entity      | <a href="#">DirectoryEntityLink</a> | The directory entity to which the access permission applies (this value is present only when reading reports). |
| valid_from            | <a href="#">String - DateTime</a>   | The validity of the access rights from a given date and time (optional).                                       |
| valid_to              | <a href="#">String - DateTime</a>   | The validity of the access rights until a given date and time (optional).                                      |

|                     |         |  |
|---------------------|---------|--|
| delegate_context    | Boolean | Specifies whether the access right applies to the user who will log in on behalf of a delegated user (optional). IMiS®/ARChive Server 9.10.1910 or higher. |
| enabled_for_subtree | Boolean | Specifies whether the inheritance of access right on contained entities is enabled (optional). IMiS®/ARChive Server 9.10.1910 or higher.                   |
| enabled_for_this    | Boolean | Specifies whether the access right on the current entity is enabled (optional). IMiS®/ARChive Server 9.10.1910 or higher.                                  |

### 5.2.102 EntityStatusUpdateRequest

Object provides request to update the entity status.

#### Definition

```
{
  "status" : {
    "inherited" : true,
    "value" : "String"
  },
  "reason" : "String"
}
```

#### Fields

|        |   |                               |
|--------|---|-------------------------------|
| status | <a href="#">InheritedStringProperty</a> | The status value.             |
| reason | String                                  | The reason for status change. |

### 5.2.103 EntityStatusUpdateResponse

Object provides information on entity status update.

#### Definition

```
{
  "status" : {
    "inherited" : true,
    "value" : "String"
  }
}
```

#### Fields

|        |   |               |
|--------|---|---------------|
| status | <a href="#">InheritedStringProperty</a> | Status value. |
|--------|---|---------------|



### 5.2.104 EntitySecurityClassUpdateRequest

Object provides request to update the entity security class.

#### Definition

```
{
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  },
  "reason" : "String"
}
```

#### Fields

|                |   |                                       |
|----------------|---|---------------------------------------|
| security_class | <a href="#">InheritedStringProperty</a> | Value of the security class.          |
| reason         | String                                  | The reason for security class update. |

### 5.2.105 EntitySecurityClassUpdateResponse

Object provides information on entity security class update.

#### Definition

```
{
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  }
}
```

#### Fields

|                |   |                              |
|----------------|---|------------------------------|
| security_class | <a href="#">InheritedStringProperty</a> | Value of the security class. |
|----------------|---|------------------------------|

### 5.2.106 EntityStub

Object provides public entity information.

#### Definition

```
{
  "links" : [{
    "type" : "entity:acl",
    "uri" : "String - URI"
  }, {
    "type" : "entity:audit_log",
    "uri" : "String - URI"
  }, {
    "type" : "nonrepudiation",
    "uri" : "String - URI"
  }, {
    "type" : "objects",
    "uri" : "String - URI"
  }, {
    "type" : "search",
    "uri" : "String - URI"
  }
]
```

```

    }, {
      "type" : "parent",
      "uri" : "String - URI"
    }, {
      "type" : "entity:stub",
      "uri" : "String - URI"
    }, {
      "type" : "entity#edit",
      "uri" : "String - URI"
    }, {
      "type" : "entity#delete",
      "uri" : "String - URI"
    }, {
      "type" : "entity:status#edit",
      "uri" : "String - URI"
    }, {
      "type" : "entity:security_class#edit",
      "uri" : "String - URI"
    }, {
      "type" : "entity#move",
      "uri" : "String - URI"
    }
  ],
  "classification_code" : "String",
  "public_classification_code" : "String",
  "id" : "String",
  "type" : "String - CLASS/FOLDER/DOCUMENT",
  "created" : "String - DateTime",
  "accessed" : "String - DateTime",
  "modified" : "String - DateTime",
  "modified_by" : {...},
  "closed" : "String - DateTime",
  "opened" : "String - DateTime",
  "creator" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "owner" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "description" : "",
  "external_ids" : [
    "String"
  ],
  "keywords" : [
    "String"
  ],
  "categories" : [
    "String"
  ],
  "security_class" : {
    "inherited" : true,
    "value" : "String"
  },
  "significance" : {
    "inherited" : true,
    "value" : "String"
  },
  "status" : {
    "inherited" : true,
    "value" : "String"
  },
  "title" : "String",
  "template" : {
    "id" : "String",
    "uri" : "String - URI"
  },
  "sub_entities_templates" : [{
    "id" : "String",
    "uri" : "String - URI"
  }

```

```

    }],
    "aip" : true,
    "has_references" : true,
    "version" : 1,
    "version_label" : "String",
    "check_in_comment" : "String",
    "draft_creator" : {},
    "has_versions" : true,
    "has_draft" : true,
    "draft_id" : "String",
    "parent_id" : "String",
    "child_classification_code_mode" : "String - AUTOMATIC/MANUAL/MANUAL_OPTIONAL",
    "permanent" : true,
    "child_count" : 0,
    "effective_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_sub_entities" : true,
      "create_references" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "properties" : [{
      "id" : "String",
      "description" : "String",
      "type" : "String - T",
      "options" : {...},
      "values" : [T],
      "effective_rights" : {
        "create_access" : true,
        "delete_access" : true,
        "read_access" : true,
        "write_access" : true
      }
    }
  ],
  "retention" : {
    "policies" : [{
      "id" : "String",
      "uri" : "String - URI",
      "name" : "String",
      "description" : "String",
      "explicit_context" : {
        "scope" : "String - ALLOW/DENY",
        "filter" : {
          "classes" : true,
          "folders" : false,
          "documents" : false
        }
      },
      "effective" : true
    }],
    "inherited_context" : [{
      "scope" : "String - ALLOW/DENY",
      "filter" : {
        "classes" : true,
        "folders" : false,
        "documents" : false
      },
      "effective" : true
    }],
    "links" : [{
      "type" : "retention_policy#edit",
      "uri" : "String - URI",
    }, {
      "type" : "retention_policy#delete",
      "uri" : "String - URI",
    }
  ]
}

```

```

    ]],
    "disposition_holds" : [{
      "id" : "String",
      "uri" : "String - URI",
      "name" : "String",
      "description" : "String",
      "links" : [{
        "type" : "disposition_hold#delete",
        "uri" : "String - URI",
      }]
    }]
  }
}

```

### Fields

|                            |                                     |   |
|----------------------------|-------------------------------------|---|
| links                      | <a href="#">Link</a> []             | Links to the entity.<br>The set of links: <ul style="list-style-type: none"> <li>- entity:acl</li> <li>- entity:audit_log</li> <li>- nonrepudiation</li> <li>- objects</li> <li>- search</li> <li>- parent</li> <li>- entity#edit</li> <li>- entity#delete</li> <li>- entity:status#edit</li> <li>- entity:security_class#edit</li> <li>- entity#move</li> <li>- entity.</li> </ul> |
| classification_code        | String                              | The canonical form of the full classification code.   |
| public_classification_code | String                              | Entity classification code in the classification scheme.  |
| id                         | String                              | The unique identifier of the entity.  |
| type                       | String                              | Entity type. The set of types: <ul style="list-style-type: none"> <li>- CLASS</li> <li>- FOLDER</li> <li>- DOCUMENT.</li> </ul>   |
| created                    | <a href="#">String - DateTime</a>   | Date and time of the entity creation.   |
| accessed                   | <a href="#">String - DateTime</a>   | Date and time of the entity access.   |
| modified                   | <a href="#">String - DateTime</a>   | Date and time of the entity change.   |
| modified_by                | <a href="#">DirectoryEntityLink</a> | The last entity modifier.   |

|                      |   |  |
|----------------------|---|--|
| closed               | <a href="#">String - DateTime</a>       | Date and time of the entity status change to Closed.       |
| opened               | <a href="#">String - DateTime</a>       | Date and time of the entity status change to Opened.       |
| creator              | <a href="#">ObjectLink</a>              | The author of the entity.                                  |
| owner                | <a href="#">ObjectLink</a>              | The owner of the entity.                                   |
| description          | String                                  | A description of the entity.                               |
| external_ids         | String                                  | External identifier of the entity (unique value).          |
| keywords             | String                                  | Keywords of the entity.                                    |
| categories           | String []                               | Categories of the entity.                                  |
| security_class       | <a href="#">InheritedStringProperty</a> | The security class of the entity.                          |
| significance         | <a href="#">InheritedStringProperty</a> | The significance of the entity.                            |
| status               | <a href="#">InheritedStringProperty</a> | The status of the entity.                                  |
| title                | String                                  | The title of the entity.                                   |
| template             | <a href="#">ObjectLink</a>              | Template type.   |
| sub_entity_templates | <a href="#">ObjectLink</a> []           | Templates for sub-entities creation.                       |
| parmanent            | Boolean                                 | Permanent entity.  |
| child_count          | Int                                     | Number of child entities.                                  |
| effective_rights     | <a href="#">EntityRights</a>            | Effective rights of current user on the entity.            |
| properties           | <a href="#">EntityProperty</a> []       | Entity properties.   |
| retention            | <a href="#">EntityRetention</a>         | Retention policies and disposition holds.                  |
| aip                  | Boolean                                 | Specifies whether authenticity and integrity proofs exist. |
| has_references       | Boolean                                 | Specifies whether an entity has references.                |
| version              | Integer                                 | The identifier of the entity version.                      |
| version_label        | String                                  | The label of the Entity version.                           |
| check_in_comment     | String                                  | The comment of the version.                                |
| draft_creator        | <a href="#">DirectoryEntityLink</a>     | User who created draft.                                    |
| has_versions         | Boolean                                 | Specifies whether an entity has versions.                  |
| has_draft            | Boolean                                 | Specifies whether an entity has draft.                     |
| draft_id             | String                                  | The identifier of draft.                                   |

|                                |        |  |
|--------------------------------|--------|--|
| parent_id                      | String | Child entity classification code generation (optional).<br>The set of values:<br>- AUTOMATIC<br>- MANUAL<br>- MANUAL_OPTIONAL. |
| child_classification_code_mode | String | Child entity classification code generation.   |

### 5.2.107 EntityStubResponse

Object provides entity public information.

#### Definition

```
{
  "entity_stub" : {
    "classification_code" : "String",
    "public_classification_code" : "String",
    "id" : "String",
    "type" : "String - CLASS/FOLDER/DOCUMENT",
    ... (SEE DEFINITION OF ENTITYSTUB OBJECT)
  }
}
```

#### Fields

|             |                            |                            |
|-------------|----------------------------|----------------------------|
| entity_stub | <a href="#">EntityStub</a> | Public entity information. |
|-------------|----------------------------|----------------------------|

### 5.2.108 EntityTransferDetails

The object provides the entity information created prior to the entity import.

#### Definition

```
{
  "audit_log" : true,
  "classification_code" : "String",
  "date" : "String - DateTime",
  "evidence" : true,
  "moved" : [],
  "system_id" : "String"
}
```

*Fields*

|                     |  |   |
|---------------------|--|---|
| audit_log           | Boolean                                      | Specifies whether the audit log of imported entity exist.                         |
| classification_code | String                                       | The canonical form of the full classification code.                               |
| date                | String                                       | Date of the entity import.  |
| evidence            | Boolean                                      | Specifies whether the authenticity and integrity proofs of imported entity exist. |
| moved               | <a href="#">EntityTransferDetailsMove</a> [] | A collection of details regarding the moves of the imported entity.               |
| system_id           | String                                       | System identifier.  |

**5.2.109 EntityTransferDetailsMove**

The object provides information on entity moves created prior to the entity import.

*Definition*

```
{
  "agent" : true,
  "classification_code" : "String",
  "date" : "String - DateTime",
  "reason" : "String"
}
```

*Fields*

|                     |        |   |
|---------------------|--------|---|
| agent               | String | Directory entity that moved an entity.              |
| classification_code | String | The canonical form of the full classification code. |
| date                | String | Date of the entity move.                            |
| reason              | String | The reason for entity move.                         |

## 5.2.110 EntityUpdate

Object provides information on entity update.

### Definition

```
{
  "title" : "String",
  "child_classification_code_mode" : "String - AUTOMATIC/MANUAL/MANUAL_OPTIONAL",
  "description" : "String",
  "owner" : "String",
  "significance" : {
    "inherited" : true,
    "value" : "String"
  },
  "external_ids" : [
    "String"
  ],
  "keywords" : [
    "String"
  ],
  "categories" : [
    "String"
  ],
  "properties" : [{
    "id" : "String",
    "values" : [T]
  }
  ],
  "physical_properties" : {
    "current_location" : "String",
    "custodian" : "String",
    "description" : "String",
    "home_location" : "String",
    "id" : "String",
    "return_due" : "String - Date",
    "status" : "String"
  }
}
```

### Fields

|                                |   |  |
|--------------------------------|---|--|
| title                          | String                                  | The title of the entity (optional).  |
| child_classification_code_mode | String                                  | Child entity classification code generation (optional).<br>The set of values:<br>- AUTOMATIC<br>- MANUAL<br>- MANUAL_OPTIONAL. |
| description                    | String                                  | A description of the entity (optional).  |
| owner                          | String                                  | The owner of the entity (optional).  |
| significance                   | <a href="#">InheritedStringProperty</a> | The significance of the entity (optional).   |
| external_ids                   | String []                               | External identifiers of the entity (optional).   |



|                     |  |  |
|---------------------|--|--|
| keywords            | String []                                | Keywords of the entity (optional).   |
| categories          | String []                                | Categories of the entity (optional).   |
| properties          | <a href="#">EntityPropertyUpdate</a> []  | Entity properties (optional).  |
| email_properties    | <a href="#">EmailProperties</a>          | Email properties (optional).<br>Compatibility: IMiS®/ARChive Server 9.10 or lower. |
| physical_properties | <a href="#">PhysicalPropertiesUpdate</a> | Physical content properties (optional).  |

### 5.2.111 EntityUpdateRequest

Object provides request to update the entity.

#### Definition

```
{
  "entity_update" : {
    "title" : "String",
    "description" : "String",
    "owner" : "String",
    ...
  }
}
```

#### Fields

|               |                              |                |
|---------------|------------------------------|----------------|
| entity_update | <a href="#">EntityUpdate</a> | Entity update. |
|---------------|------------------------------|----------------|

### 5.2.112 Error

Object provides information on error.

#### Definition

```
{
  "status" : 500
  "message" : "String",
  "details" : "String"
}
```

#### Fields

|         |         |   |
|---------|---------|---|
| status  | Integer | The status of an error.<br>The set of values:<br>- 400: Invalid request.<br>- 401: Invalid authentication.<br>- 404: Object does not exist.<br>- 500: Server error. |
| message | String  | The message of an error.  |
| details | String  | A detailed description of an error.   |

### 5.2.113 HandleOpenResponse

The object provides information on opening the object.

#### Definition

```
{
  "handle" : "String"
}
```

#### Fields

|        |        |   |
|--------|--------|---|
| Handle | String | The unique identifier of the open object. |
|--------|--------|---|

### 5.2.114 IdentityProvider

Object provides information on the external identity provider.

#### Definition

```
{
  "id" : "String",
  "name" : "String",
  "description" : "String",
  "type" : "String",
  "icon" : "String"
}
```

#### Fields

|             |        |  |
|-------------|--------|--|
| id          | String | Unique identifier of the external identity provider. |
| name        | String | Name of the external identity provider.              |
| description | String | Description of the external identity provider.       |
| type        | String | The type of external identity provider.              |
| icon        | String | The icon URL.  |

### 5.2.115 InheritedStringProperty

Object provides information on entity property with the inherited value.

#### Definition

```
{
  "inherited" : true,
  "value" : String
}
```

*Fields*

|           |         |   |
|-----------|---------|---|
| inherited | Boolean | Information on whether entity property is inherited (optional). |
| value     | String  | Inherited property value (optional).                            |

**5.2.116 Link**

Object provides the link to entities.

*Definition*

```
{
  "type" : String,
  "uri" : String
}
```

*Fields*

|      |        |   |
|------|--------|---|
| type | String | Entity type. The set of the possible types: <ul style="list-style-type: none"> <li>- entity:acl: Link to the entity access rights.</li> <li>- entity:audit_log: Link to the entity audit log.</li> <li>- nonrepudiation: Link to the proofs of the authenticity of the entity object.</li> <li>- objects: Link to the entity objects.</li> <li>- search: Link to the entity search.</li> <li>- parent: Link to the parent entity.</li> <li>- entity:stub: Link to entity properties.</li> <li>- entity#edit: Link to edit the entity.</li> <li>- entity#delete: Link to delete the entity.</li> <li>- entity:status#edit: Link to edit the entity status.</li> <li>- entity:security_class#edit: Link to edit the security class.</li> <li>- entity#move: Link to move the entity.</li> </ul> |
| uri  | String | The unique identifier of the link to the entity in the archive server.  |

**5.2.117 ObjectLink**

Identifier of the content object linked to the entity.

*Definition*

```
{
  "id" : "String",
  "uri" : "String - URI"
}
```

*Fields*

|     |        |                            |
|-----|--------|----------------------------|
| id  | String | Identifier of the content. |
| uri | String | Link to the content.       |

## 5.2.118 ObjectManageRequest

Object provides request on marking the entity content object.

### Definition

```
{
  "manage": {
    "queue_for_indexing": true,
    "queue_for_conversion": true
  }
}
```

### Fields

|                      |         |  |
|----------------------|---------|--|
| queue_for_indexing   | Boolean | Specifies whether the object is marked for indexing.   |
| queue_for_conversion | Boolean | Specifies whether the object is marked for conversion. |

## 5.2.119 ObjectsResponse

Object provides information on entity content objects.

### Definition

```
{
  "objects": [{
    "id": "String",
    "container_id": "String", // Optional
    "description": "String",
    "size": 0,
    "created": "String",
    "accessed": "String",
    "modified": "String",
    "content_type": "String",
    "extension": "String",
    "effective_rights": { // Optional
      "create_access": true,
      "delete_access": true,
      "read_access": true,
      "write_access": true
    },
    "links": [{
      "type": "content",
      "uri": "String - URI"
    }, {
      "type": "content_with_metadata",
      "uri": "String - URI"
    }
  ],
  "child_count": 0,
  "signed": false,
  "indexed": false,
  "children": [{
    "id": "String",
    "container_id": "String", // Optional
    "description": "String",
    "size": 0,
    "created": "String",
    "accessed": "String",
    "modified": "String",
    "content_type": "String",
    "extension": "String",
    "effective_rights": { // Optional
```

```

        "create_access": true,
        "delete_access": true,
        "read_access": true,
        "write_access": true
    },
    "links": [{
        "type": "content",
        "uri": "String - URI"
    }, {
        "type": "content_with_metadata",
        "uri": "String - URI"
    }
    ],
    "child_count": 0,
    "signed": false,
    "indexed": false,
    "children": [],
    "parent_id": "String"
  },
  "parent_id": "String"
}
]
}

```

*Fields*

|         |                               |                         |
|---------|-------------------------------|-------------------------|
| objects | <a href="#">ObjectStub</a> [] | Entity content objects. |
|---------|-------------------------------|-------------------------|

**5.2.120 ObjectStage**

Object provides information on object properties.

*Definition*

```

{
  "id" : "String",
  "size" : 0,
  "content_type" : "String",
  "extension" : "String",
  "staged" : true
}

```

*Fields*

|              |         |  |
|--------------|---------|--|
| id           | String  | The unique identifier of the content object                    |
| size         | Integer | The content object size (in bytes).                            |
| content_type | String  | Content object type.   |
| extension    | String  | Extension of the content object file.                          |
| staged       | Boolean | Defines whether the object is located in unstructured storage. |

### 5.2.121 ObjectStageResponse

Object provides information on object properties.

#### Definition

```
{
  "object" : {
    "id" : "String",
    "size" : 0,
    "content_type" : "String"
    ...
  }
}
```

#### Fields

|        |                             |  |
|--------|-----------------------------|--|
| object | <a href="#">ObjectStage</a> | Provides information on object properties. |
|--------|-----------------------------|--|

### 5.2.122 ObjectStub

Object provides public information on entity object properties.

#### Definition

```
{
  "container_id" : "String", // Optional
  "id" : "String",
  "description" : "String",
  "size" : 0,
  "created" : "String - DateTime",
  "accessed" : "String - DateTime",
  "modified" : "String - DateTime",
  "content_type" : "String",
  "extension" : "String",
  "effective_rights" : { // Optional
    "create_access" : true,
    "delete_access" : true,
    "read_access" : true,
    "write_access" : true
  },
  "child_count" : 0,
  "signed" : false,
  "indexed" : false,
  "parent_id" : "String",
  "children" : []
}
```

#### Fields

|              |        |   |
|--------------|--------|---|
| container_id | String | The unique identifier of the content object container (optional). |
| id           | String | The unique identifier of the object.                              |
| description  | String | A description of the content.                                     |

|                  |                                   |   |
|------------------|-----------------------------------|---|
| size             | Integer                           | The content object size (in bytes).                                     |
| created          | <a href="#">String - DateTime</a> | Date and time of the object creation.                                   |
| accessed         | <a href="#">String - DateTime</a> | Date and time of the object access.                                     |
| modified         | <a href="#">String - DateTime</a> | Date and time of the object change.                                     |
| content_type     | String                            | Content object type.  |
| extension        | String                            | Extension of the content object file.                                   |
| effective_rights | <a href="#">PropertyRights</a>    | Effective rights to access the content object (optional).               |
| child_count      | Integer                           | Number of child objects.  |
| signed           | Boolean                           | Value that shows whether the physical content is electronically signed. |
| indexed          | Boolean                           | Value that shows whether the physical content is indexed.               |
| parent_id        | String                            | The unique identifier of the parent physical content (optional).        |
| children         | ObjectStub []                     | A collection of child objects.  |

### 5.2.123 ObjectStubResponse

Object provides information on entity object properties.

#### Definition

```
{
  "object" : {
    "container_id" : "String", // Optional
    "id" : "String",
    "description" : "String",
    "size" : 0,
    "created" : "String - datetime",
    "accessed" : "String - datetime",
    "modified" : "String - datetime",
    "content_type" : "String",
    "extension" : "String",
    "effective_rights" : { // Optional
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true
    },
    "child_count" : 0,
    "signed" : false,
    "indexed" : false,
    "parent_id" : "String"
  }
}
```

#### Fields

|        |                            |  |
|--------|----------------------------|--|
| Object | <a href="#">ObjectStub</a> | Provides information on object properties. |
|--------|----------------------------|--|

### 5.2.124 ObjectUploadSession

Object provides information on object for creating a content upload session.

#### Definition

```
{
  "id" : "String",
  "parts": 0
}
```

#### Fields

|       |         |  |
|-------|---------|--|
| Id    | String  | Identifier of a content upload session.                  |
| parts | Integer | Number of content parts that were uploaded successfully. |

### 5.2.125 ObjectUploadSessionCreateRequest

Object provides information on object for creating a content upload session.

#### Definition

```
{
  "content_type" : "String"
}
```

#### Fields

|              |        |                      |
|--------------|--------|----------------------|
| content_type | String | Content object type. |
|--------------|--------|----------------------|

### 5.2.126 ObjectUploadSessionCreateResponse

Object provides information on object for creating a content upload session.

#### Definition

```
{
  "session" : {
    "id" : "String",
    "parts": 0
  }
}
```

#### Fields

|         |                     |                                |
|---------|---------------------|--------------------------------|
| Session | ObjectUploadSession | Session for uploading content. |
|---------|---------------------|--------------------------------|



### 5.2.127 ObjectUploadSessionSaveRequest

Object provides information on object for saving a content upload session.

#### Definition

```
{
  "description" : "String",
  "container_id" : "String"
}
```

#### Fields

|              |        |   |
|--------------|--------|---|
| description  | String | A description of the content.   |
| container_id | String | The unique identifier of additional entity content object container (optional). |

### 5.2.128 PasswordChangeRequest

Object provides information on password change.

#### Definition

```
{
  "new_password" : "String",
  "old_password" : "String"
}
```

#### Fields

|              |        |                   |
|--------------|--------|-------------------|
| new_password | String | New password.     |
| old_password | String | Current password. |

### 5.2.129 PhysicalProperties

Object provides information on entity physical content properties.

#### Definition

```
{
  "current_location" : "String",
  "custodian" : "String",
  "description" : "String",
  "home_location" : "String",
  "id" : "String",
  "return_due" : "String - Date",
  "status" : "String",
  "status_change" : "String - DateTime"
}
```

*Fields*

|                  |                                   |   |
|------------------|-----------------------------------|---|
| current_location | String                            | Current location of the physical content.   |
| custodian        | String                            | The custodian of the content.               |
| description      | String                            | A description of the content.               |
| home_location    | String                            | The home location of the content.           |
| id               | String                            | The identifier of the physical content.     |
| return_due       | <a href="#">String - Date</a>     | The return date of the issued content.      |
| status           | String                            | The status of the content.                  |
| status_change    | <a href="#">String - DateTime</a> | Date and time of the content status change. |

**5.2.130 PhysicalPropertiesUpdate**

Object updates an entity physical properties.

*Definition*

```
{
  "current_location" : "String",
  "custodian" : "String",
  "description" : "String",
  "home_location" : "String",
  "id" : "String",
  "return_due" : "String - Date",
  "status" : "String"
}
```

*Fields*

|                  |                               |   |
|------------------|-------------------------------|---|
| current_location | String                        | The current location of the physical content. |
| custodian        | String                        | The custodian of the content.                 |
| description      | String                        | A description of the content.                 |
| home_location    | String                        | The home location of the content.             |
| id               | String                        | The identifier of the physical content.       |
| return_due       | <a href="#">String - Date</a> | The return date of the issued content.        |
| status           | String                        | The status of the content.                    |

### 5.2.131 Property

Object provides information on entity property.

*Definition*

```
{
  "description" : "String",
  "label" : "String",
  "id" : "String",
  "options" : {...},
  "type" : "String - T",
  "values" : [T]
}
```

*Fields*

|             |                                 |  |
|-------------|---------------------------------|--|
| description | String                          | A description of the attribute property.   |
| label       | String                          | The property label.  |
| id          | String                          | The unique identifier of the attribute property.   |
| options     | <a href="#">PropertyOptions</a> | The attribute property options.  |
| type        | String                          | Attribute property type. The set of types: <ul style="list-style-type: none"> <li>- BINARY</li> <li>- BOOL</li> <li>- DATE</li> <li>- DATE_TIME</li> <li>- DECIMAL1</li> <li>- DECIMAL2</li> <li>- DECIMAL3</li> <li>- DECIMAL4</li> <li>- DECIMAL5</li> <li>- DECIMAL6</li> <li>- DECIMAL7</li> <li>- DECIMAL8</li> <li>- DECIMAL9</li> <li>- DECIMAL10</li> <li>- DIRECTORY_ENTITY</li> <li>- DOUBLE</li> <li>- INT8</li> <li>- INT16</li> <li>- INT32</li> <li>- INT64</li> <li>- INT128</li> <li>- STRING10</li> <li>- STRING20</li> <li>- STRING30</li> </ul> |

|   |                                     | <ul style="list-style-type: none"> <li>- STRING40</li> <li>- STRING50</li> <li>- STRING100</li> <li>- STRING200</li> <li>- STRINGMAX</li> <li>- TIME</li> <li>- UINT8</li> <li>- UINT16</li> <li>- UINT32</li> <li>- UINT64</li> <li>- UINT128.</li> </ul>   |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
|---|-------------------------------------|--|---------------|---|--------|-------------------------------------|------|---------|------|-------------------------------|-----------|-----------------------------------|---|--------|------------------|---------------------|---|-----|---|--------|------|-------------------------------|
| values  | T []                                | <p>The set of values is dynamic and depends on type and properties (optional). If <i>options.pick_list</i> is <i>true</i> see chapter <a href="#">PropertyValue</a>, otherwise the set of values depend on the <i>type</i>.</p> <table border="1"> <thead> <tr> <th>Metadata type</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>BINARY</td> <td><a href="#">PropertyBinaryValue</a></td> </tr> <tr> <td>BOOL</td> <td>Boolean</td> </tr> <tr> <td>DATE</td> <td><a href="#">String - Date</a></td> </tr> <tr> <td>DATE_TIME</td> <td><a href="#">String - DateTime</a></td> </tr> <tr> <td>DECIMAL1, DECIMAL2, DECIMAL3, DECIMAL4, DECIMAL5, DECIMAL6, DECIMAL7, DECIMAL8, DECIMAL9, DECIMAL10, DOUBLE</td> <td>Double</td> </tr> <tr> <td>DIRECTORY_ENTITY</td> <td>DirectoryEntityLink</td> </tr> <tr> <td>INT8, INT16, INT32, INT64, INT128, UINT8, UINT16, UINT32, UINT64, UINT128</td> <td>Int</td> </tr> <tr> <td>STRING10, STRING20, STRING30, STRING40, STRING50, STRING100, STRING200, STRINGMAX</td> <td>String</td> </tr> <tr> <td>TIME</td> <td><a href="#">String - Time</a></td> </tr> </tbody> </table> | Metadata type | T | BINARY | <a href="#">PropertyBinaryValue</a> | BOOL | Boolean | DATE | <a href="#">String - Date</a> | DATE_TIME | <a href="#">String - DateTime</a> | DECIMAL1, DECIMAL2, DECIMAL3, DECIMAL4, DECIMAL5, DECIMAL6, DECIMAL7, DECIMAL8, DECIMAL9, DECIMAL10, DOUBLE | Double | DIRECTORY_ENTITY | DirectoryEntityLink | INT8, INT16, INT32, INT64, INT128, UINT8, UINT16, UINT32, UINT64, UINT128 | Int | STRING10, STRING20, STRING30, STRING40, STRING50, STRING100, STRING200, STRINGMAX | String | TIME | <a href="#">String - Time</a> |
| Metadata type   | T                                   |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| BINARY  | <a href="#">PropertyBinaryValue</a> |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| BOOL  | Boolean                             |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| DATE  | <a href="#">String - Date</a>       |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| DATE_TIME   | <a href="#">String - DateTime</a>   |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| DECIMAL1, DECIMAL2, DECIMAL3, DECIMAL4, DECIMAL5, DECIMAL6, DECIMAL7, DECIMAL8, DECIMAL9, DECIMAL10, DOUBLE | Double                              |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| DIRECTORY_ENTITY  | DirectoryEntityLink                 |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| INT8, INT16, INT32, INT64, INT128, UINT8, UINT16, UINT32, UINT64, UINT128                                   | Int                                 |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| STRING10, STRING20, STRING30, STRING40, STRING50, STRING100, STRING200, STRINGMAX                           | String                              |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |
| TIME  | <a href="#">String - Time</a>       |  |               |   |        |                                     |      |         |      |                               |           |                                   |   |        |                  |                     |   |     |   |        |      |                               |

### 5.2.132 PropertyBinaryValue

Object provides information on Binary property value.

#### Definition

```
{
  "content_type" : "String",
  "extension" : "String",
  "size" : 1
}
```

#### Fields

|              |         |                                       |
|--------------|---------|---------------------------------------|
| content_type | String  | The content type.                     |
| Extension    | String  | Extension of the content object file. |
| Size         | Integer | The size of the content.              |

### 5.2.133 PropertyOptions

Object provides information on entity property options.

#### Definition

```
{
  "append_only" : false,
  "included_in_aip" : false,
  "inherited" : false,
  "multi_value" : false,
  "non_empty" : false,
  "pick_list" : false,
  "public" : false,
  "read_only" : false,
  "read_only_after_check_in" : false,
  "read_only_after_create" : false,
  "required" : false,
  "searchable" : false,
  "unique" : false,
  "versionable" : false
}
```

#### Fields

|                 |         |  |
|-----------------|---------|--|
| append_only     | Boolean | Entity property values can only append.                              |
| included_in_aip | Boolean | Entity property values are part of the archival information package. |
| inherited       | Boolean | Entity property values are inherited from the parent entity.         |
| multi_value     | Boolean | Entity property has multiple values.                                 |
| non_empty       | Boolean | Entity property value can't be empty.                                |
| pick_list       | Boolean | Entity property has multiple values.                                 |

|                          |         |  |
|--------------------------|---------|--|
| public                   | Boolean | Entity property is publicly accessible to all users.     |
| read_only                | Boolean | Entity property value cannot be changed.                 |
| read_only_after_check_in | Boolean | Entity property is read only after new version creation. |
| read_only_after_create   | Boolean | Entity property is read only after entity creation.      |
| required                 | Boolean | Entity property value is mandatory.                      |
| searchable               | Boolean | Entity property is searchable.                           |
| unique                   | Boolean | Entity property value must be unique.                    |
| versionable              | Boolean | Entity property is versionable.                          |

### 5.2.134 PropertyResponse

Object provides information on entity property.

#### Definition

```
{
  "property" : {
    "id" : "String"
    ...
  }
}
```

#### Fields

|          |          |  |
|----------|----------|--|
| property | Property | Object provides information on metadata. |
|----------|----------|--|

### 5.2.135 PropertyRights

Object provides information on entity property access rights.

#### Definition

```
{
  "create_access" : true,
  "delete_access" : true,
  "read_access" : true,
  "valid_from" : "String - DateTime",
  "valid_to" : "String - DateTime",
  "write_access" : true,
  "delegate_context" : true,
  "enabled_for_subtree" : true,
  "enabled_for_this" : true
}
```

#### Fields

|               |         |  |
|---------------|---------|--|
| create_access | Boolean | The right to create attributes property. |
| delete_access | Boolean | The right to delete attributes property. |
| read_access   | Boolean | The right to read attributes property.   |

|                     |                                   |   |
|---------------------|-----------------------------------|---|
| write_access        | Boolean                           | The right to write attributes property.   |
| valid_to            | <a href="#">String - DateTime</a> | The validity of the attribute property access rights from a given date and time (optional).   |
| valid_from          | <a href="#">String - DateTime</a> | The validity of the attribute property access rights until a given date and time (optional).  |
| delegate_context    | Boolean                           | Specifies whether the access right applies to the user who will log in on behalf of a delegated user (optional). Compatibility: IMiS®/ARChive Server 9.10.1910 or higher. |
| enabled_for_subtree | Boolean                           | Specifies whether the inheritance of access right on contained entities is enabled (optional). Compatibility: IMiS®/ARChive Server 9.10.1910 or higher.                   |
| enabled_for_this    | Boolean                           | Specifies whether the access right on the current entity is enabled (optional). Compatibility: IMiS®/ARChive Server 9.10.1910 or higher.                                  |

## 5.2.136 PropertyValue

Object provides information on attribute property value.

### Definition

```
{
  "key" : "String"
  "value" : T
}
```

### Fields

|       |        |   |
|-------|--------|---|
| key   | String | The key attribute property value.   |
| value | T      | Attribute property value is dynamic. Set of the possible values based on the property type: <ul style="list-style-type: none"> <li>- BINARY: See chapter <a href="#">PropertyBinaryValue</a></li> <li>- BOOL: Boolean</li> <li>- DATE: See chapter <a href="#">String - Date</a></li> <li>- DATE_TIME: See chapter <a href="#">String - DateTime</a></li> <li>- DECIMAL1, DECIMAL2, DECIMAL3, DECIMAL4, DECIMAL5, DECIMAL6, DECIMAL7, DECIMAL8, DECIMAL9, DECIMAL10, DOUBLE: Double</li> <li>- DIRECTORY_ENTITY: See chapter <a href="#">ObjectLink</a></li> <li>- INT8, INT16, INT32, INT64, INT128, UINT8, UINT16, UINT32, UINT64, UINT128: Int</li> <li>- STRING10, STRING20, STRING30, STRING40, STRING50, STRING100, STRING200, STRINGMAX: String</li> <li>- TIME: See chapter <a href="#">String - Time</a>.</li> </ul> |

## 5.2.137 ReportsResponse

The object defines the collection of retention policies.

### Definition

```
{
  "entities" : [],
  "page_size" : 10,
  "page_start" : 0,
  "size" : 10
}
```

### Fields

|            |                           |   |
|------------|---------------------------|---|
| entities   | <a href="#">Entity</a> [] | A collection of the entities.                   |
| page_size  | Integer                   | The size of the page.                           |
| page_start | Integer                   | The page index in the entire entity collection. |
| size       | Integer                   | The size of the collection.                     |
| handle     | String                    | Collection handle.                              |

## 5.2.138 RetentionPoliciesResponse

Object provides information on retention policies.

### Definition

```
{
  "retention_policies" : [{
    "id" : "String",
    "name" : "String",
    "accessed" : "String - DateTime",
    "created" : "String - DateTime",
    "modified" : "String - DateTime",
    "action" : "String",
    "creator" : {
      "id" : "String",
      "uri" : "String - URI"
    },
    "description" : "String",
    "detailed_description" : "String",
    "reason" : "String",
    "trigger" : "String"
  }
]
```

### Fields

|                    |                                    |  |
|--------------------|------------------------------------|--|
| retention_policies | <a href="#">RetentionPolicy</a> [] | The information on retention policies. |
|--------------------|------------------------------------|--|



## 5.2.139 RetentionPolicy

Object provides information on retention policy.

### Definition

```
{
  "id" : "String",
  "name" : "String",
  "accessed" : "String - DateTime",
  "created" : "String - DateTime",
  "modified" : "String - DateTime",
  "action" : "String",
  "creator" : {
    "id" : "String",
    ...
  },
  "description" : "String",
  "detailed_description" : "String",
  "reason" : "String",
  "trigger" : "String",
  "mandates" : [{
    "id" : "String",
    "description" : "String",
    "size" : 1,
    ...
  }]
}
```

### Fields

|                      |                                   |   |
|----------------------|-----------------------------------|---|
| id                   | String                            | The unique identifier of the entity retention policy.                 |
| name                 | String                            | The name of the entity retention policy.                              |
| accessed             | <a href="#">String - DateTime</a> | Date and time of the entity retention policy access.                  |
| created              | <a href="#">String - DateTime</a> | Date and time of the entity retention policy creation.                |
| modified             | <a href="#">String - DateTime</a> | Date and time of the entity retention policy update.                  |
| action               | String                            | Default action of the entity retention policy.                        |
| creator              | <a href="#">ObjectLink</a>        | The author of the entity retention policy.                            |
| description          | String                            | A description of the entity retention policy.                         |
| detailed_description | String                            | A detailed description of the entity retention policy.                |
| reason               | String                            | The reason for entity retention policy creation.                      |
| trigger              | String                            | Search string to determine a time frame of a entity retention period. |
| mandates             | <a href="#">ObjectStub []</a>     | The information on retention policy mandate.                          |

## 5.2.140 RetentionPolicyResponse

Object provides information on retention policy.

### Definition

```
{
  "retention_policy" : {
    "id" : "String",
    "name" : "String",
    "accessed" : "String - DateTime",
    "created" : "String - DateTime",
    "modified" : "String - DateTime",
    "action" : "String",
    "creator" : {
      "id" : "String",
      "uri" : "String - URI"
    },
    "description" : "String",
    "detailed_description" : "String",
    "reason" : "String",
    "trigger" : "String",
    "links" : [{
      "type" : "objects",
      "uri" : "String - URI"
    }]
  }
}
```

### Fields

|                  |                                 |                                      |
|------------------|---------------------------------|--------------------------------------|
| retention_policy | <a href="#">RetentionPolicy</a> | Entity retention policy information. |
|------------------|---------------------------------|--------------------------------------|

## 5.2.141 Review

Object provides information on review.

### Definition

```
{
  "accessed" : "String - DateTime",
  "action" : "String",
  "aip" : true,
  "comments" : "String",
  "closed" : "String - DateTime",
  "created" : "String - DateTime",
  "creator" : {
    "id" : "String",
    ...
  },
  "description" : "String",
  "documents" : [...],
  "effective_rights" : {...},
  "id" : "String",
  "items" : [...],
  "keywords" : ["String"],
  "members" : ["String"],
  "message" : "String",
  "modified" : "String - DateTime",
  "modified_by" : {
    "id" : "String",
    ...
  },
  "opened" : "String - DateTime",
  "owner" : {
```

```

    "id" : "String",
    ...
  },
  "retention_policies" : [],
  "status " : {...},
  "state" : "String",
  "title" : "String",
  "scope" : {...}
}

```

### Fields

|                    |                                     |  |
|--------------------|-------------------------------------|--|
| accessed           | <a href="#">String - DateTime</a>   | Date and time of the review access.                        |
| action             | String                              | Default action of the review.                              |
| aip                | Boolean                             | Specifies whether authenticity and integrity proofs exist. |
| comments           | String                              | The comment of the review.                                 |
| closed             | <a href="#">String - DateTime</a>   | Date and time of the entity status update to Closed.       |
| created            | <a href="#">String - DateTime</a>   | Date and time of the review creation.                      |
| creator            | <a href="#">DirectoryEntityLink</a> | The author of the review.                                  |
| description        | String                              | A description of the review (optional).                    |
| documents          | <a href="#">EntityStub</a> []       | Documents of the review (optional).                        |
| effective_rights   | <a href="#">EntityRights</a>        | Effective rights of the current user on the review.        |
| Has_save_log       | Boolean                             | Specifies whether review save log exist.                   |
| id                 | String                              | The unique identifier of the review.                       |
| items              | <a href="#">ReviewItemEntry</a> []  | The pages of the review (optional).                        |
| keywords           | String []                           | Keywords of the review (optional).                         |
| members            | String []                           | The review members (optional).                             |
| message            | String                              | The review message.  |
| modified           | <a href="#">String - DateTime</a>   | Date and time of the review modification.                  |
| opened             | <a href="#">String - DateTime</a>   | Date and time of the review open.                          |
| owner              | <a href="#">DirectoryEntityLink</a> | The owner of the review.                                   |
| retention_policies | <a href="#">RetentionPolicy</a> []  | The retention policies of the review.                      |
| state              | String                              | The review state.  |
| title              | String                              | The title of the review.                                   |

## 5.2.142 ReviewCreate

Object creates a review.

### Definition

```
{
  "action" : "String",
  "comments" : "String",
  "description" : "String",
  "keywords" : ["String",],
  "members" : ["String",],
  "owner" : "String",
  "retention_policies" : ["String"],
  "scope_id" : "String",
  "scope_id_type" : "String",
  "status" : {...},
  "title" : "String",
  "query_expression" : "String"
}
```

### Fields

|                    |   |  |
|--------------------|---|--|
| action             | String                                  | Default action of the review.  |
| comments           | String                                  | The comments of the review (optional).   |
| description        | String                                  | A description of the review (optional).  |
| keywords           | String []                               | Keywords of the review (optional).   |
| members            | String []                               | The review members (optional).   |
| owner              | String                                  | The owner of the review (optional).  |
| retention_policies | String []                               | The retention policies identifier (optional; if query_expression is present, this field must not be sent). |
| scope_id           | String                                  | The identifier of the entity (optional).   |
| scope_id_type      | String                                  | Entity identifier type (optional).<br>The set of values:<br>- C<br>- I (default value)<br>- E.             |
| status             | <a href="#">InheritedStringProperty</a> | The status of the review (optional).   |
| title              | String                                  | The title of the review.   |
| query_expression   | String                                  | The query expression (optional; if retention_policies is present, this field must not be sent).            |

### 5.2.143 ReviewCreateRequest

Object provides request to create the review.

#### Definition

```
{
  "review" : {
    "action" : "String",
    "comments" : "String",
    "description" : "String",
    "keywords" : [],
    "members" : [],
    "owner" : "String",
    "retention_policies" : [],
    "scope_id" : "String",
    "scope_id_type" : "String",
    "status" : {},
    "title" : "String",
    "query_expression" : "String"
  }
}
```

#### Fields

|        |                              |                      |
|--------|------------------------------|----------------------|
| review | <a href="#">ReviewCreate</a> | The review creation. |
|--------|------------------------------|----------------------|

### 5.2.144 ReviewCreateHandleRequest

Object provides request to create the review.

#### Definition

```
{
  "retention_policies" : [],
  "scope_id" : "String",
  "scope_id_type" : "String",
  "query_expression" : "String"
}
```

#### Fields

|                    |           |   |
|--------------------|-----------|---|
| retention_policies | String [] | A collection of retention policies identifiers (optional; if query_expression is present, this field must not be sent). |
| scope_id           | String    | The identifier of the entity (optional).  |
| scope_id_type      | String    | The type of the entity identifier (optional).<br>The set of values:<br>- C<br>- I (default value)<br>- E.               |
| query_expression   | String    | The query expression (optional; if retention_policies is present, this field must not be sent).                         |

## 5.2.145 ReviewEntitiesUpdateRequest

Object provides information on changing the entity of the review page.

### Definition

```
{
  "entities" : [{
    "action" : "String ",
    "classification_code" : "String ",
    "comment" : "String ",
    "reason" : "String",
    "transfer_id" : "String",
    "transferred" : true
  }]
}
```

### Fields

|          |   |                            |
|----------|---|----------------------------|
| entities | <a href="#">ReviewEntityStubUpdate</a> [] | Collection of entity data. |
|----------|---|----------------------------|

## 5.2.146 ReviewEntityStub

Object provides information on entity of the review page.

### Definition

```
{
  "action" : "String ",
  "classification_code" : "String ",
  "id" : "String ",
  "reason" : "String",
  "title" : "String",
  "transfer_id" : "String",
  "transferred" : true,
  "type" : "String"
}
```

### Fields

|                            |        |   |
|----------------------------|--------|---|
| action                     | String | The entity action.  |
| classification_code        | String | The canonical form of the full classification code.         |
| id                         | String | The unique identifier of the entity.                        |
| public_classification_code | String | Entity classification code in the classification scheme.    |
| reason                     | String | The reason for review.                                      |
| title                      | String | The title of the entity.                                    |
| transfer_id                | String | The unique identifier of the transferred entity (optional). |

|             |         |   |
|-------------|---------|---|
| transferred | Boolean | Specifies whether the entity was transferred (optional).              |
| type        | String  | Entity type. The set of values:<br>- CLASS<br>- DOCUMENT<br>- FOLDER. |

### 5.2.147 ReviewEntityStubUpdate

Object updates entity of the review page.

#### Definition

```
{
  "action" : "String",
  "classification_code" : "String",
  "comment" : "String",
  "reason" : "String",
  "transfer_id" : "String",
  "transferred" : true
}
```

#### Fields

|                     |         |   |
|---------------------|---------|---|
| action              | String  | The entity action (optional).                               |
| classification_code | String  | The classification code of the entity (optional).           |
| comment             | String  | The comment for the review (optional).                      |
| reason              | String  | The reason for review (optional).                           |
| transfer_id         | String  | The unique identifier of the transferred entity (optional). |
| transferred         | Boolean | Specifies whether the entity was transferred (optional).    |

### 5.2.148 ReviewEntityStubUpdateRequest

Object provides request to update the entity of the review page.

#### Definition

```
{
  "entity" : {
    "action" : "String ",
    "comment" : "String ",
    "reason" : "String",
    "transfer_id" : "String",
    "transferred" : true
  }
}
```

#### Fields

|        |  |  |
|--------|--|--|
| entity | <a href="#">ReviewEntityStubUpdate</a> | The entity of the review page information. |
|--------|--|--|

### 5.2.149 ReviewEntityStubResponse

Object provides information on entity of the review page.

*Definition*

```
{
  "entity" : {
    "action" : "String ",
    "classification_code" : "String ",
    "id" : "String ",
    "reason" : "String",
    "title" : "String",
    "transfer_id" : "String",
    "transferred" : true,
    "type" : "String"
  }
}
```

*Fields*

|        |                                  |  |
|--------|----------------------------------|--|
| entity | <a href="#">ReviewEntityStub</a> | The entity of the review page information. |
|--------|----------------------------------|--|

### 5.2.150 ReviewUpdate

Object provides information on entity update.

*Definition*

```
{
  "action" : "String",
  "comments" : "String",
  "description" : "String",
  "keywords" : [],
  "members" : [],
  "owner" : "String",
  "status" : {},
  "title" : "String"
}
```

*Fields*

|             |   |  |
|-------------|---|--|
| action      | String                                  | Default action of the review.                              |
| comments    | String                                  | The comments of the review (optional).                     |
| description | String                                  | A description of the review (optional).                    |
| keywords    | String []                               | Keywords of the review (optional).                         |
| members     | String []                               | The review members (optional).                             |
| owner       | String                                  | The owner of the review (optional).                        |
| status      | <a href="#">InheritedStringProperty</a> | The status of the review (optional, only in editing mode). |
| title       | String                                  | The title of the review.                                   |



## 5.2.151 ReviewUpdateRequest

Object provides request to update the review.

### Definition

```
{
  "review" : {
    "action" : "String",
    "comments" : "String",
    "description" : "String",
    "keywords" : [],
    "members" : [],
    "owner" : "String",
    "status" : {},
    "title" : "String"
  }
}
```

### Fields

|        |                              |                         |
|--------|------------------------------|-------------------------|
| review | <a href="#">ReviewUpdate</a> | The review information. |
|--------|------------------------------|-------------------------|

## 5.2.152 ReviewItem

Object provides information on review page.

### Definition

```
{
  "accessed" : "String - DateTime",
  "created" : "String - DateTime",
  "id" : "String",
  "modified" : "String - DateTime",
  "title" : "String"
}
```

### Fields

|          |                                     |   |
|----------|-------------------------------------|---|
| actions  | String []                           | The actions of the review page.           |
| entities | <a href="#">ReviewEntityStub</a> [] | The entities of the review page.          |
| id       | String                              | The unique identifier of the review page. |
| title    | String                              | The title of the review page.             |

### 5.2.153 ReviewItemEntry

Object provides information on review page.

#### Definition

```
{
  "accessed" : "String - DateTime",
  "created" : "String - DateTime",
  "id" : "String",
  "modified" : "String - DateTime",
  "title" : "String"
}
```

#### Fields

|          |                                   |   |
|----------|-----------------------------------|---|
| accessed | <a href="#">String - DateTime</a> | Date and time of the review access.       |
| created  | <a href="#">String - DateTime</a> | Date and time of the review creation.     |
| id       | String                            | The unique identifier of the review page. |
| modified | <a href="#">String - DateTime</a> | Date and time of the review modification. |
| title    | String                            | The title of the review page.             |

### 5.2.154 ReviewItemResponse

Object provides information on review page.

#### Definition

```
{
  "item" : {
    "actions" : [],
    "entities" : [],
    "id" : "String",
    "title" : "String"
  }
}
```

#### Fields

|      |                            |                                 |
|------|----------------------------|---------------------------------|
| item | <a href="#">ReviewItem</a> | The information on review page. |
|------|----------------------------|---------------------------------|

### 5.2.155 ReviewsResponse

Object provides information on reviews.

#### Definition

```
{
  "categories" : [],
  "reviews" : [],
  "page_size" : 1,
  "page_start" : 0,
  "size" : 1
}
```

*Fields*

|            |                               |                             |
|------------|-------------------------------|-----------------------------|
| categories | <a href="#">Category</a> []   | Categories of the entity.   |
| reviews    | <a href="#">ReviewStub</a> [] | The information on reviews. |
| page_size  | Integer                       | The review page size.       |
| page_start | Integer                       | The beginning of the page.  |
| size       | Integer                       | The size of the reviews.    |
| handle     | String                        | Collection handle.          |

**5.2.156 ReviewResponse**

Object provides information on review.

*Definition*

```
{
  "review" : {
    "accessed" : "String - DateTime",
    "aip" : true,
    "comments" : "String",
    "created" : "String - DateTime",
    ...
  }
}
```

*Fields*

|        |                        |                         |
|--------|------------------------|-------------------------|
| review | <a href="#">Review</a> | The review information. |
|--------|------------------------|-------------------------|

**5.2.157 ReviewStub**

Operation reads an entity save log.review.

*Definition*

```
{
  "accessed" : "String - DateTime",
  "aip" : true,
  "closed" : "String - DateTime",
  "created" : "String - DateTime",
  "creator" : {
    "id" : "String",
    ...
  },
  "description" : "String",
  "effective_rights" : {...},
  "id" : "String",
  "keywords" : ["String"],
  "message" : "String",
  "modified" : "String - DateTime",
  "modified_by" : {
    "id" : "String",
    ...
  },
  "opened" : "String - DateTime",
  "owner" : {
    "id" : "String",

```

```

    }, ...
  },
  "retention_policies" : [],
  "status " : {...},
  "state" : "String",
  "title" : "String",
  "scope" : {...}
}

```

### Fields

|                  |   |  |
|------------------|---|--|
| accessed         | <a href="#">String - DateTime</a>       | Date and time of the review access.                        |
| aip              | Boolean                                 | Specifies whether authenticity and integrity proofs exist. |
| closed           | <a href="#">String - DateTime</a>       | Date and time of the review status update to Closed.       |
| created          | <a href="#">String - DateTime</a>       | Date and time of the review creation.                      |
| creator          | <a href="#">DirectoryEntityLink</a>     | The author of the review.                                  |
| description      | String                                  | A description of the review (optional).                    |
| effective_rights | <a href="#">EntityRights</a>            | Effective rights of the current user on the review.        |
| id               | String                                  | The unique identifier of the review.                       |
| keywords         | String []                               | Keywords of the review (optional).                         |
| message          | String                                  | The review message.  |
| modified         | <a href="#">String - DateTime</a>       | Date and time of the review modification.                  |
| modified_by      | <a href="#">DirectoryEntityLink</a>     | The directory entity who last modified the review.         |
| opened           | <a href="#">String - DateTime</a>       | Date and time of the review open.                          |
| owner            | <a href="#">DirectoryEntityLink</a>     | The owner of the review.                                   |
| state            | String                                  | The review state.  |
| status           | <a href="#">InheritedStringProperty</a> | The status of the review.                                  |
| title            | String                                  | The title of the review.                                   |
| scope            | <a href="#">EntityStub</a>              | The scope of the review (optional).                        |

## 5.2.158 SaveLogResponse

Object provides information on entity save log.

### Definition

```

{
  "save_logs" : []
}

```

### Fields

|           |           |                       |
|-----------|-----------|-----------------------|
| save_logs | String [] | The entity save logs. |
|-----------|-----------|-----------------------|

## 5.2.159 SearchEntity

Object provides information on entity search.

### Definition

```
{
  "classification_code" : "String",
  "public_classification_code" : "String",
  "objects" : [{
    "description" : "String"
  }],
  "id" : "String",
  "links" : [],
  "title" : "String",
  "type" : "String - CLASS/FOLDER/DOCUMENT"
}
```

### Fields

|                            |                                       |  |
|----------------------------|---------------------------------------|--|
| classification_code        | String                                | The canonical form of the full classification code.  |
| public_classification_code | String                                | Entity classification code in the classification scheme.   |
| objects                    | <a href="#">SearchEntityObject</a> [] | Content objects in the entity search result.   |
| id                         | String                                | The unique identifier of the entity.   |
| links                      | <a href="#">Link</a> []               | Links to the entity (optional).  |
| title                      | String                                | The title of the entity.   |
| type                       | String                                | Entity types. The set of types: <ul style="list-style-type: none"> <li>- CLASS</li> <li>- FOLDER</li> <li>- DOCUMENT.</li> </ul> |

## 5.2.160 SearchEntityObject

Object provides information on entity content objects search.

### Definition

```
{
  "container_id" : "String",
  "id" : "String",
  "description" : "String",
  "size" : 0,
  "created" : "String - DateTime",
  "accessed" : "String - DateTime",
  "modified" : "String - DateTime",
  "content_type" : "String",
  "extension" : "String",
  "signed" : false,
  "indexed" : false,
  "version" : 1,
  "version_label" : "String"
}
```

*Fields*

|               |                                   |  |
|---------------|-----------------------------------|--|
| container_id  | String                            | The unique identifier of additional entity content object container of target entity (optional). |
| Id            | String                            | The unique identifier of the object.   |
| Description   | String                            | A description of the entity content.   |
| Size          | Integer                           | The size of the content (in bytes).  |
| Created       | <a href="#">String - DateTime</a> | Date and time of the object creation.  |
| Accessed      | <a href="#">String - DateTime</a> | Date and time of the entity object access.   |
| Modified      | <a href="#">String - DateTime</a> | Date and time of the object update.  |
| content_type  | String                            | The content type.  |
| Extension     | String                            | Extension of the content object file.  |
| Signed        | Boolean                           | Value that shows whether the content is electronically signed.                                   |
| Indexed       | Boolean                           | Value that shows whether the content is indexed.   |
| Version       | Integer                           | The entity version, where the content is located (optional).                                     |
| version_label | String                            | The label of the entity version. Where the content is located (optional).                        |

**5.2.161 SearchResponse**

Object provides information on entity search.

*Definition*

```
{
  "categories" : [],
  "max_elements" : 0,
  "page_size " : 0,
  "page_start" : 0,
  "results" : [{
    "classification_code" : "String",
    "public_classification_code" : "String",
    "objects" : [{
      "description" : "String"
    }],
    "id" : "String",
    "links" : [],
    "title" : "String",
    "type" : "String - CLASS/FOLDER/DOCUMENT"
  }],
  "size" : 0,
  "truncated " : false
}
```

*Fields*

|              |                                 |   |
|--------------|---------------------------------|---|
| categories   | <a href="#">Category</a> []     | Categories of the entity.                                 |
| max_elements | Integer                         | Maximum number of search elements (optional).             |
| page_size    | Integer                         | The size of the page (optional).                          |
| page_start   | Integer                         | The beginning of the page (optional).                     |
| results      | <a href="#">SearchEntity</a> [] | Entities in the search result.                            |
| size         | Integer                         | The size of the collection.                               |
| truncated    | Boolean                         | Specifies whether the collection is truncated (optional). |
| handle       | String                          | Collection handle.  |

**5.2.162 SessionCloseRequest**

Object provides request to close the session.

*Definition*

```
{
  "token" : "String"
}
```

*Fields*

|       |        |   |
|-------|--------|---|
| token | String | The unique identifier of the session (token). |
|-------|--------|---|

**5.2.163 SessionOpenOptions**

Object provides information on additional settings when opening a session.

*Definition*

```
{
  "entity_id_encoding" : "String",
  "entity_id_type" : "String",
  "object_id_encoding" : "String",
  "object_id_type" : "String",
  "object_staging_id_encoding" : "String",
  "object_staging_id_type" : "String"
}
```

*Fields*

|                            |        |  |
|----------------------------|--------|--|
| entity_id_encoding         | String | Encoding entity identifiers. The set of values:<br>- BASE16,<br>- BASE64.        |
| entity_id_type             | String | Type of entity identifier. The set of values:<br>- ID192,<br>- ID256.            |
| object_id_encoding         | String | Encoding entity object identifiers. The set of values:<br>- BASE16,<br>- BASE64. |
| object_id_type             | String | Type of entity object identifier. The set of values:<br>- ID192,<br>- ID256.     |
| object_staging_id_encoding | String | Encoding object identifiers. The set of values:<br>- BASE16,<br>- BASE64.        |
| object_staging_id_type     | String | Type of object identifier. The set of values:<br>- ID192,<br>- ID256.            |

**5.2.164 SessionOpenRequest**

Object provides request to open the session.

*Definition*

```
{
  "authentication" : {
    "username" : "String",
    "password" : "String",
    "ldap_password" : "String",
    "kerberos5_service_ticket" : "String - Base64"
  },
  "api_version" : 0,
  "computer_name" : "String",
  "application_name" : "String",
  "impersonate" : "String"
}
```



*Fields*

|                  |                                    |   |
|------------------|------------------------------------|---|
| authentication   | <a href="#">Authentication</a>     | The user authentication information.                    |
| api_version      | Int                                | API version (optional).                                 |
| computer_name    | String                             | The name of the computer (optional).                    |
| application_name | String                             | The name of the application (optional).                 |
| impersonate      | String                             | The username of the user being impersonated (optional). |
| options          | <a href="#">SessionOpenOptions</a> | Collection of additional settings.                      |
| address          | String                             | IP address of session.                                  |

**5.2.165 SessionOpenResponse**

Object provides information on opening the session.

*Definition*

```
{
  "api_version" : 6,
  "service_name" : "String",
  "service_version" : 700,
  "token" : "String"
}
```

*Fields*

|                 |         |   |
|-----------------|---------|---|
| api_version     | Int     | API version.                                  |
| service_name    | String  | The name of the archive service.              |
| service_version | Integer | The version of the archive service.           |
| token           | String  | The unique identifier of the session (token). |

**5.2.166 SessionsCloseRequest**

Object provides information on the request to close the session.

*Definition*

```
{
  "id" : "String",
  "ids" : ["String"]
}
```

*Fields*

|     |           |  |
|-----|-----------|--|
| Id  | String    | The unique identifier of the session (optional). |
| ids | String [] | A collection of session identifiers (optional).  |

## 5.2.167 SessionsResponse

Object provides response to the request to read the collection of user sessions.

### Definition

```
{
  "sessions" : {
    "id" : "String",
    "username" : "String",
    ...
  },
  "page_size" : 10,
  "page_start" : 0,
  "size" : 20
}
```

### Fields

|            |  |                              |
|------------|--|------------------------------|
| Sessions   | <a href="#">SessionsResponseSession</a> [] | Collection of user sessions. |
| page_size  | Integer                                    | The size of the page.        |
| page_start | Integer                                    | The beginning of the page.   |
| Size       | Integer                                    | The size of the collection.  |

## 5.2.168 SessionsResponseSession

Object provides information on the user session.

### Definition

```
{
  "id " : "String",
  "username" : "String",
  "last_active" : "String - DateTime",
  "computer_name" : "String",
  "address" : "String",
  "account" : {
    "email" : "String",
    "id" : "String",
    ...
  },
  "status" : 1
}
```

*Fields*

| id            | String                              | The unique identifier of the template.   |                  |             |         |                  |        |                 |        |                 |
|---------------|-------------------------------------|--|------------------|-------------|---------|------------------|--------|-----------------|--------|-----------------|
| username      | String                              | The name of the user.  |                  |             |         |                  |        |                 |        |                 |
| impersonate   | String                              | The username of the user that the session is impersonating (optional).   |                  |             |         |                  |        |                 |        |                 |
| last_active   | String – DateTime                   | Date and time of the last active session.  |                  |             |         |                  |        |                 |        |                 |
| computer_name | String                              | The name of the device.  |                  |             |         |                  |        |                 |        |                 |
| address       | String                              | The address of the device.   |                  |             |         |                  |        |                 |        |                 |
| account       | <a href="#">DirectoryEntityLink</a> | The user profile (optional).   |                  |             |         |                  |        |                 |        |                 |
| status        | Integer                             | The status of the session. The set of values:  |                  |             |         |                  |        |                 |        |                 |
|               |                                     | <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CURRENT</td> <td>Current session.</td> </tr> <tr> <td>ACTIVE</td> <td>Active session.</td> </tr> <tr> <td>CLOSED</td> <td>Closed session.</td> </tr> </tbody> </table> | Value            | Description | CURRENT | Current session. | ACTIVE | Active session. | CLOSED | Closed session. |
|               |                                     | Value  | Description      |             |         |                  |        |                 |        |                 |
|               |                                     | CURRENT  | Current session. |             |         |                  |        |                 |        |                 |
| ACTIVE        | Active session.                     |  |                  |             |         |                  |        |                 |        |                 |
| CLOSED        | Closed session.                     |  |                  |             |         |                  |        |                 |        |                 |
|               |                                     |  |                  |             |         |                  |        |                 |        |                 |
|               |                                     |  |                  |             |         |                  |        |                 |        |                 |

**5.2.169 String - Date**

Object represents a set of values: Date and time zone.

Format: "yyyy-MM-ddZ".

*Example:* "2019-10-01+02:00", "2019-10-01Z".

**5.2.170 String - DateTime**

Object represents a set of values: Date, time and time zone.

Format: "yyyy-MM-ddTHH:mm:ss.SSSZ".

*Example:* "2019-10-01T12:30:01.000+02:00", "2019-10-01T10:30:01.000Z".

**5.2.171 String - Time**

Object represents a set of values: Time and time zone.

Format: "HH:mm:ss.SSSZ".

*Example:* "12:30:01.000+02:00", "12:30:01.000Z".

## 5.2.172 SubjectIssuerIdentity

Object provides information on the user's external identity.

### Definition

```
{
  "subject" : "String",
  "issuer" : "String",
  "active" : true
}
```

### Fields

|         |         |  |
|---------|---------|--|
| subject | String  | External identity identifier.                    |
| issuer  | String  | External identity issuer.                        |
| active  | Boolean | Defines whether the external identity is active. |

## 5.2.173 SystemProperties

Object provides information on system properties.

### Definition

```
"system_properties": {
  "title": {...},
  "description": {...},
  "keywords": {...},
  "status": {...},
  "security_class": {...},
  "owner": {...},
  "external_ids": {...},
  "opened": {...},
  "closed": {...},
  "creator": {...},
  "physical_properties": {...},
  "email_properties": {...},
  "significance": {...}
}
```

### Fields

|                |                          |                                   |
|----------------|--------------------------|-----------------------------------|
| title          | <a href="#">Property</a> | The title of the entity.          |
| description    | <a href="#">Property</a> | A description of the entity.      |
| keywords       | <a href="#">Property</a> | Keywords of the entity.           |
| status         | <a href="#">Property</a> | The status of the entity.         |
| security_class | <a href="#">Property</a> | The security class of the entity. |

|                     |  |  |
|---------------------|--|--|
| owner               | <a href="#">Property</a>                   | The owner of the entity.                             |
| external_ids        | <a href="#">Property</a>                   | The external identifiers of the entity.              |
| opened              | <a href="#">Property</a>                   | Date and time of the entity status update to Opened. |
| closed              | <a href="#">Property</a>                   | Date and time of the entity status update to Closed. |
| creator             | <a href="#">Property</a>                   | The author of the entity                             |
| physical_properties | <a href="#">TemplatePhysicalProperties</a> | Physical content properties.                         |
| email_properties    | <a href="#">TemplateEmailProperties</a>    | Email properties.                                    |
| significance        | <a href="#">Property</a>                   | The significance of the entity.                      |

## 5.2.174 Template

Object provides information on template.

### Definition

```
{
  "template": {
    "id": "String",
    "label": "String",
    "description": "String",
    "entity_count": 0,
    "entity_type": "String - CLASS/DOCUMENT/FOLDER ",
    "properties": [{
      "name": "String",
      "description": "String",
      ...
    }],
    "physical_properties": true,
    "email_properties": true,
    "versionable": true,
    "system_properties": {...}
  }
}
```

### Fields

|              |         |   |
|--------------|---------|---|
| id           | String  | The unique identifier of the template.  |
| label        | String  | The label of the template (optional).   |
| description  | String  | A description of the template.  |
| entity_count | Integer | The number of entities where template is used.  |
| entity_type  | String  | Entity type. The set of types: <ul style="list-style-type: none"> <li>- CLASS</li> <li>- FOLDER</li> <li>- DOCUMENT.</li> </ul> |

|                     |                                  |   |
|---------------------|----------------------------------|---|
| properties          | <a href="#">Property</a> []      | Properties linked to the template.  |
| physical_properties | Boolean                          | Specifies whether the template provides information on physical properties. |
| email_properties    | Boolean                          | Specifies whether the template provides information on email properties.    |
| versionable         | Boolean                          | Specifies whether template is versionable.                                  |
| system_properties   | <a href="#">SystemProperties</a> | Set of system properties.   |

## 5.2.175 TemplateLink

Object provides information on template link.

### Definition

```
{
  "entity_type" : "String",
  "id" : "String",
  "label" : "String",
  "uri" : "String"
}
```

### Fields

|             |        |  |
|-------------|--------|--|
| entity_type | String | Entity type. The set of the entity types: <ul style="list-style-type: none"> <li>- CLASS</li> <li>- FOLDER</li> <li>- DOCUMENT.</li> </ul> |
| id          | String | The unique identifier of the template.   |
| label       | String | The label of the template (optional).  |
| uri         | String | The link to the template (optional).   |

## 5.2.176 TemplateEmailProperties

Object provides information on email properties.

### Definition

```
{
  "subject": {...},
  "from": {...},
  "to": {...},
  "cc": {...},
  "bcc": {...},
  "date": {...},
  "message_id": {...},
  "priority": {...},
  "signed": {...}
}
```

*Fields*

|            |                          |  |
|------------|--------------------------|--|
| subject    | <a href="#">Property</a> | Email subject.   |
| from       | <a href="#">Property</a> | Email address of the sender.   |
| to         | <a href="#">Property</a> | Email addresses of the recipients.                                     |
| cc         | <a href="#">Property</a> | Email addresses of the carbon copy recipients.                         |
| bcc        | <a href="#">Property</a> | Email addresses of the hidden recipients.                              |
| date       | <a href="#">Property</a> | Date and time email was sent or received.                              |
| message_id | <a href="#">Property</a> | Automatically generated message identifier.                            |
| priority   | <a href="#">Property</a> | The priority status of the email.                                      |
| signed     | <a href="#">Property</a> | A value that registers if the email message was electronically signed. |

**5.2.177 TemplatePhysicalProperties**

Object provides information on physical properties.

*Definition*

```
{
  "id": {...},
  "description": {...},
  "status": {...},
  "status_change": {...},
  "home_location": {...},
  "current_location": {...},
  "custodian": {...},
  "return_due": {...}
}
```

*Fields*

|                  |                          |   |
|------------------|--------------------------|---|
| id               | <a href="#">Property</a> | The identifier of the physical content.     |
| description      | <a href="#">Property</a> | A description of the content.               |
| status           | <a href="#">Property</a> | The status of the content.                  |
| status_change    | <a href="#">Property</a> | Date and time of the content status change. |
| home_location    | <a href="#">Property</a> | Home location of the content.               |
| current_location | <a href="#">Property</a> | Current location of the physical content.   |
| custodian        | <a href="#">Property</a> | The custodian of the content.               |
| return_due       | <a href="#">Property</a> | The return date of the issued content.      |

## 5.2.178 TemplateResponse

Object provides information on template.

### Definition

```
{
  "template": {
    "id": "String",
    "description": "String",
    "entity_count": 0,
    "entity_type": "String - CLASS/DOCUMENT/FOLDER/UNKNOWN",
    ...
  }
}
```

### Fields

|          |                          |                           |
|----------|--------------------------|---------------------------|
| template | <a href="#">Template</a> | The template information. |
|----------|--------------------------|---------------------------|

## 5.2.179 TemplatesResponse

Object provides information on templates.

### Definition

```
{
  "templates": [{
    "id": "String",
    "description": "String",
    "entity_count": 0,
    "entity_type": "String - CLASS/DOCUMENT/FOLDER/UNKNOWN",
    "properties": [{
      "name": "String",
      "description": "String",
      "type": "String - T",
      ...
    }],
    "physical_properties": true,
    "email_properties": true,
    "system_properties": {...}
  ]
}
```

### Fields

|           |                             |                               |
|-----------|-----------------------------|-------------------------------|
| templates | <a href="#">Template</a> [] | The information on templates. |
|-----------|-----------------------------|-------------------------------|



## 5.2.180 VersionsResponse

Object provides information on entity versions.

### *Definition*

```
{  
  "versions": [ ... ]  
}
```

### *Fields*

|          |                               |                              |
|----------|-------------------------------|------------------------------|
| versions | <a href="#">EntityStub</a> [] | The information on versions. |
|----------|-------------------------------|------------------------------|

## 5.3 Start page

IMiS®/Storage Connector Services REST enables integrating IMiS®/ARChive Server with applications via the HTTP 1.1 or 2.0 protocol. The start page is shown below.

### IMiS/StorageConnector Services REST

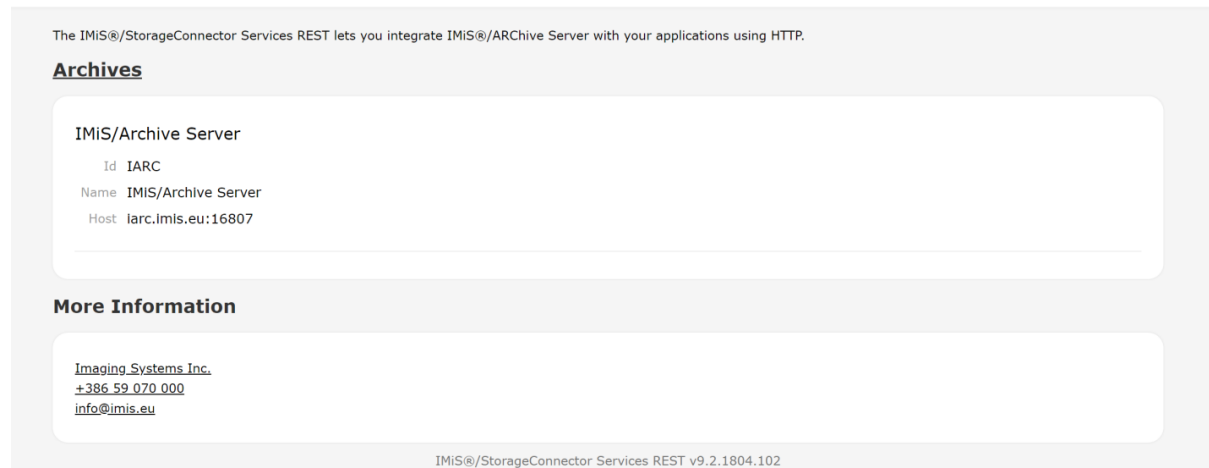


Image 2: Start page of REST interface

## 5.4 Web.xml configuration

An example of web.xml configuration is given below.

### Definition

```
<web-app>
  <context-param>
    <param-name>com.imis.storageconnector.services.config</param-name>
    <param-value>/etc/isc/config.xml</param-value>
  </context-param>
  <context-param>
    <param-name>com.imis.storageconnector.services.CORS.enabled</param-name>
    <param-value>>true</param-value>
  </context-param>
</web-app>
```

### Parameters

|   |         |  |
|---|---------|--|
| com.imis.storageconnector.services.config       | String  | Path to the configuration file (optional).<br>Default value<br>"/WEB-INF/config/config.xml". |
| com.imis.storageconnector.services.CORS.enabled | Boolean | Specifies whether CORS is enabled (optional). The default value is <i>true</i> .             |

## 5.5 Archive management

Archive is an archive server that allows structured archiving of electronic content or content digitalized through scanning. At the same time, it enables storing metadata of archived content through structured attributes, connected in metadata schemes and defined in the frame of hierarchical entity templates.

All sets and objects that describe the operation with the archive server are classified under the REST interface »Archive«.

Operation with the archive is described below.

### 5.5.1 Archives read

Operation reads archive servers available to the user.

#### Request

**GET archives.json**

#### Response

See chapter [ArchivesResponse](#)

#### Response status

200 – Archives read successfully.

500 – Server error.

#### **Example of the archive servers available to the user**

#### Request

GET <https://apps.imis.eu/scsvc/archives.json>

## Response

```
{
  "api_version" : 7,
  "archives" : [{
    "id" : "IARC",
    "name" : "Archive",
    "description" : "Company main archive",
    "host" : "iarc.imis.si:16807",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC.json"
  }, {
    "id" : "IARC01",
    "name" : "Archive 01",
    "description" : "Company main archive",
    "host" : "iarc01.imis.si:16807",
    "uri" : " https://apps.imis.eu/scsvc/archives/IARC01.json"
  }
  ],
  "version" : "9.6.2010.107"
}
```

## 5.5.2 Archive read

Operation reads archive server, user roles and links to significant archive operations.

### Request

#### GET archives/{archiveId}.json

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token] – See chapter [Session](#)

### Response

See chapter [ArchiveResponse](#)

### Response status

200 – Archive read successfully.

401 – Invalid session.

404 –Archive does not exist.

500 – Server error.

**Example of the archive read**Request

GET https://apps.imis.eu/scsvc/archives/IARC.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response*Definition*

```

{
  "api_version": 6,
  "archive": {
    "administration_access": {
      "create_reviews" : true,
      "deleted_entities" : true,
      "deleted_queue" : true,
      "disposed_entities" : true,
      "export_logs" : true,
      "import_logs" : true,
      "reviews" : true
    },
    "audit_log_required" : false,
    "capabilities": {
      "audit_query": true,
      "draft_management" : true,
      "content_management": true,
      "import_export": true,
      "reports": true
    },
    "description": "Company main archive",
    "effective_rights": {
      "read_access": true,
      "write_access": true,
      "move_access": true,
      "delete_access": true,
      "change_rights": true,
      "create_sub_entities": true,
      "create_references": true,
      "change_security_class": true,
      "change_status": true,
      "change_retention": true
    },
    "features": {
      "content_convert": true,
      "content_detach": true,
      "content_index": true,
      "content_move": true,
      "create_drafts" : true
    },
    "host": "iarc.imis.si:16807",
    "links": [{
      "type": "deleted",
      "uri": " https://apps.imis.eu/scsvc/archives/IARC/deleted.json"
    }, {
      "type": "disposed",
      "uri": " https://apps.imis.eu/scsvc/archives/IARC/dispoused.json"
    }, {
      "type": "disposition_holds",
      "uri": " https://apps.imis.eu/scsvc/archives/IARC/disposition_holds.json"
    }, {
      "type": "directory",

```

```

    "uri": " https://apps.imis.eu/scsvc/archives/IARC/directory.json"
  }, {
    "type": "drafts",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/drafts.json"
  }, {
    "type": "entities",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/entities.json"
  }, {
    "type": "log:export",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/log/export.json"
  }, {
    "type": "log:import",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/log/import.json"
  }, {
    "type": "retention_policies",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/retention_policies.json"
  }, {
    "type": "reviews",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/reviews.json"
  }, {
    "type": "search",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/search.json"
  }, {
    "type": "templates",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC/templates.json"
  }
],
"name": "Archive",
"secure": true,
"service_name": "IMiS/ARChive Storage Server",
"service_version": 710
}
}

```

### 5.5.3 Archive certificate read

Operation obtains the archive server certificate.

#### Request

#### **GET archives/{archiveId}/certificate**

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

#### Request header

Authorization: Bearer [session token] – See chapter [Session](#)

#### Response

Archive certificate.

#### Response type

application/x-x509-ca-cert

### Response status

- 200 – Certificate read successfully.
- 401 – Invalid session.
- 404 – Certificate does not exist.
- 500 – Server error.

### **Example of the certificate read**

#### Request

GET https://apps.imis.eu/scsvs/archives/IARC/certificate

#### Request header

Authorization: Bearer: d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

```
-----BEGIN CERTIFICATE-----
MIIDOjCCAiICQDOA/zVxFLcTzANBgkqhkiG9w0BAQsFADBFMRcwFQYDVQDDA5pYXJjOTgualWlpcy5zaTEQMA4GA1UE
CwwHU2VydMvYyczElMCMGA1UECgwcSU1pUy9BUkNoaXZlIFN0b3JhZ2UgU2VydMvYyczElMAkGA1UEBhMCVVMwHhcNMTcw
NDI4MTM0NzIzWhcNMjcwNDI4MTM0NzIzWjBFMRcwFQYDVQDDA5pYXJjOTgualWlpcy5zaTEQMA4GA1UECwwHU2VydMvY
yczElMCMGA1UECgwcSU1pUy9BUkNoaXZlIFN0b3JhZ2UgU2VydMvYyczElMAkGA1UEBhMCVVMwggEiMA0GCQGSIB3DQEB
AQUAA4IBDwAwggEKAoIBAQC8Qwe0A7HFptN90sqM7SDgDDFaFyuWvEqPMEDsROu/fhHwe4EQ015jVfdEmSo+PUDfrjGy
VlelBoRnHURBlK97tyjoRD2R5dYYM9yC9MzkcuL+OD1td7eOs08m/Vg2MYUjK+z6IG3NhkoPC0swBdlXIUhZHmNPITr
b3Ivetknahq5wCXiOzx5DIWhbsaHBoAZx5wim9QDj57XSqpDkG2mvu7uvm0vs8Bn3RsbSe7Zn3sDmw/lmlbw6I0NoHcm
qcELwaEw9uFVraxsfQhbqWdn6AzryI7ZvBua+Zp00IgzokryUck+kRzURCTVvpq2cJV08zc1NjMok80JjQD3k2pBAGMB
AAEwDQYJKoZIhvcNAQELBQADggEBAFRemiTeuwlDeONoiI4+9SKovN3ypJAYVih4dgIht6OVPK8pt/b+cI/KuvvZqwcj
x/VG
vLmTGh8Mx0e3HRxE5YoarmuUCC/or2veEs5VK918z0qlEKsysNfy5GSg1OEB4Ijtz9rthQdiKynvHY9TR0MSTT+wCnhb
1VNni8yey6fRfNUamECsZloySkCDTDbDgf/+bAXa2ld06mXpgWbj4gbdIpU715gftDFe+ajY3LlnWXAMUaSvvgIS1Jlg
eBFFut94ewWzbcK35TZ4gKEKYJifr/nxF4w+L27f6KHajs0L2z0sw89t0XzRXSQ0eCrMjdVr8DiWwP6zHRC6sHZQbgA=
-----END CERTIFICATE-----
```

## 5.6 Session

Session enables access to operations in which a session token is sent in the header of the request. The session is created and opened, and the user is authenticated. It remains valid until the user closes it or it expires after a certain period of inactivity, which can be set in the archive configuration.

Operation with sessions is described below.

## 5.6.1 Session open

Operation creates session and retrieves unique identifier. When the session is open, user authenticates and connects to the archive server.

### Request

#### **POST archives/{archiveId}/session/open.json**

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

### Request content

See chapter [SessionOpenRequest](#)

### Response

See chapter [SessionOpenResponse](#)

### Response status

- 200 – Session opened successfully.
- 400 – Bad request.
- 401 – Unsuccessful authorization.
- 404 – Archive does not exist.
- 500 – Server error.

### **Example of the session open**

#### Request

POST <https://apps.imis.eu/scsvc/archives/IARC/session/open.json>

```
{
  "authentication" : {
    "username" : "admin",
    "password" : "xxxxxx",
    "ldap_password" : "xxxxxx"
  }
}
```



Response

```
{
  "api_version" : 7,
  "service_name" : "IMiS/ARChive Storage Server",
  "service_version" : 710,
  "token" : "nFFeEj11TXGrOeV3oU9XpUAv3pG9rvNeV7abpm346auo0vZmDffgknXcOHFy74Kj"
}
```

**5.6.2 Session close**

Operation closes the session.

Request**POST archives/{archiveld}/session/close.json**

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveld | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

Request content

See chapter [SessionCloseRequest](#)

Response status

200 – Session closed successfully.

400 – Bad request.

404 – Session does not exist.

500 - Server error.

**Example of the session close**Request

POST https://apps.imis.eu/scsvc/archives/IARC/session/close.json

```
{
  "token" : "nFFeEj11TXGrOeV3oU9XpUAv3pG9rvNeV7abpm346auo0vZmDffgknXcOHFy74Kj"
}
```

Response status

200 – Session closed successfully.

### 5.6.3 User sessions read

Operation retrieves a collection of all the user sessions opened by the user. The response never sends a “session token” for a specific session but a unique identifier which can be used to close the session. The user can see only their own sessions that were opened with the same user profile. The administrator profile can view all user sessions. The sessions collection read enables reading by pages and searching for sessions.

#### Request

#### **GET archives/{archiveId}/sessions.json**

#### Request header

Authorization: Bearer [session token]

#### Request parameters

|            |         |  |
|------------|---------|--|
| page_size  | Integer | The size of the page (optional).   |
| page_start | Integer | The beginning of the page (optional).  |
| q          | String  | The search string (optional).  |
| closed     | Boolean | Specifies whether sessions that have been closed are returned (optional). Default value is <i>true</i> . |

#### Response

See chapter [SessionsResponse](#)

#### Response status

200 – Sessions read successfully.

401 – Invalid session.

500 - Server error.

## 5.6.4 User session close

Operation closes the user session. The session identifier is needed to close the user session.

### Request

#### **GET archives/{archiveId}/sessions.json**

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [SessionsCloseRequest](#)

### Response status

200 – Session closed successfully.

400 – Bad request.

401 – Invalid session.

404 – Session does not exist.

500 - Server error.

## 5.7 Entity

An entity is an independent container of data and content that represents a logical integrity of information. Each entity is determined by: type, classification code, system attributes and entity specific properties.

Operation with entities is described below.

### 5.7.1 Entity resource location

#### Address

**archives/{archiveId}/entities/{id}**

or

**archives/{archiveId}/entities/{entityIdKind}:{id}**

### Address parameters

|              |        |   |
|--------------|--------|---|
| archiveId    | String | The unique identifier of the archive.   |
| entityIdKind | String | Entity identifier type.<br>The set of values:<br>- C: Classification code in the canonical form.<br>- E: External identifier of the entity.<br>- I: Internal identifier of the entity.<br>- H: Temporary identifier of the open entity (handle).<br>- c: Classification code in the canonical form and in Base64 encoding.<br>- e: External entity identifier in Base64 encoding. |
| id           | String | The unique identifier of the entity.  |

*Note:*

*If the path "/archives/{archiveId}/entities/{C/E/I/H}:{id}/..." exists, a call is possible even without the identifier type "/archives/{archiveId}/entities/{id}/...". In that case, the identifier type is I – Internal. The only exception applies to "GET archives/{archiveId}/entities/H:{id}/close.json", where the "GET archives/{archiveId}/entities/{id}/close.json" identifier type is H – Handle.*

## 5.7.2 Entity read

The operation obtains an entity collection or a collection of subordinated entities at the root of the archive. With request parameters we can control the entity information sets and reading the pages of the entity collection. The reading of pages is defined with page\_start (beginning of the page) and page\_size (page size) parameters.

When reading an individual page, the operation returns an empty collection if there are no more entities after the specified page\_start value. If the parameters page\_start and page\_size are not given, the first page with a size limitation in the settings is returned.

Request**GET archives/{archiveId}/entities.json**

Entities read on the archive root.

and

**GET archives/{archiveId}/entities/{id}/entities.json**

Child entity collection read.

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/entities.json**

Child entities read. Set of entityIdKind values: C, E, I.

Request header

Authorization: Bearer [session token]

Request parameters

If filter is not set, basic entity information are: *id*, *title*, *description*, *type*, *classification\_code*, *public\_classification\_code*, *status*, and links are of the type: *entity* and *entity:stub*.

|            |         |  |
|------------|---------|--|
| filter     | String  | Filter defines the scope of the entity information (optional).<br>If the “fields” parameter has been sent, this parameter does not apply.<br><br>The set of values:<br>- all: All public information and links to the entities.<br>- links: Links to the entities.<br>- props: Public information on entity properties.<br>- templates: Templates for child entities creation. |
| page_start | Int     | The beginning of the page (optional).  |
| page_size  | Int     | The size of the page (optional).   |
| refresh    | Boolean | If value is <i>true</i> then entity information is created again; otherwise information is created only first time. Parameter is taken into the account when page_start in page_size parameters are present (optional).  |

|                     |         |   |
|---------------------|---------|---|
| sort                | String  | <p>The sort key of the collection (optional).</p> <p>The set of values:</p> <ul style="list-style-type: none"> <li>- sys:Title: The title of the entity.</li> <li>- sys:ClassificationCode: The classification code of the entity (default value).</li> <li>- sys:Creator: The creator of the entity.</li> <li>- sys:Owner: The owner of the entity.</li> <li>- sys:Opened: Date and time of the entity status change to Opened.</li> <li>- sys:SecurityClass: The security class of the entity.</li> <li>- sys:Status: The status of the entity.</li> <li>- sys:Significance: The significance of the entity.</li> <li>- sys:Modified: Date and time of the last entity change.</li> <li>- The unique identifier of the property.</li> </ul> |
| sort_order          | String  | <p>The sort order of the collection (optional). Valid only if the “sort” parameter exists.</p> <p>The set of values:</p> <ul style="list-style-type: none"> <li>- asc: Ascending (default value).</li> <li>- desc: Descending.</li> </ul>   |
| category_properties | String  | <p>The property used to request the categorization of the entity collection. The value enables multiple values, separated by the character »,« (optional). The response provides a list of potential categories by properties.</p>  |
| category            | String  | <p>The category of the entity collection. The value represents the category to which the entities belong (optional).</p>  |
| fields              | String  | <p>Defines the fields in the reply.</p> <p><i>Example:</i></p> <p>entities (id, title, modified, classification_code, effective_rights, child_count, closed, permanent, public_classification_code, description, type, has_draft), page_size, page_start, size, categories.</p> <p>The user can define which properties of entities are contained in the response. Example of defining the properties “Date” and “Review Date”:</p> <pre>entities(id,title,modified,classification_code, properties(id[Date,Review Date],type,values)),page_size,page_start,size,categories</pre>   |
| Classes             | Boolean | <p>Specifies whether the response contains class-type entities. Default value is <i>false</i>, if the folders or documents parameter exists; otherwise <i>true</i> (optional).</p>  |
| Folders             | Boolean | <p>Specifies whether the response contains folder-type entities. Default value is <i>false</i>, if the classes or documents parameter exists; otherwise <i>true</i> (optional).</p>   |

|           |         |   |
|-----------|---------|---|
| documents | Boolean | Specifies whether the response contains document type entities. Default value is <i>false</i> , if the classes or folders parameter exists; otherwise <i>true</i> (optional). |
| Handle    | String  | Collection handle.  |

### Response

See chapter [EntitiesResponse](#)

### Response status

200 – Entities read successfully.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

### **Example of the entities read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/YQM1ixP8TAOZOQabg-OSRxF9mrLAFHJt9YDVRK5xNs/entities.json?page\_size=1&page\_start=0

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

```
{
  "categories" : [],
  "entities" : [{
    "classification_code" : "C=147^D=00001",
    "id" : "Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E",
    "links" : [{
      "type" : "entity",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E.json"
    }], {
      "type" : "entity:stub",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E/stub.json"
    }
  ]}, {
    "public_classification_code" : "147/00001"
    "title": "Imaging Systems Daily Summary for July 27th",
    "type" : "DOCUMENT"
  }], {
```

```

    "classification_code" : "C=147^D=00002",
    "description" : "Daily Summary July",
    "id" : "Y7UiszrpzfCYpUoCA4cvM90XiNLZI1J2tDCHbs1VvEo",
    "links" : [{
      "type" : "entity",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Y7UiszrpzfCYpUoCA4cvM90XiNLZI1J2tDCHbs1VvEo.json"
    }, {
      "type" : "entity:stub",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Y7UiszrpzfCYpUoCA4cvM90XiNLZI1J2tDCHbs1VvEo/stub.json"
    }
  ],
  "public_classification_code" : "147/00002",
  "title" : "Imaging Systems Daily Summary for July 28th",
  "type" : "DOCUMENT"
}
],
"page_size" : 1,
"page_start" : 0,
"size" : 100
}

```

### 5.7.3 Entity public information read

Operation reads an entity public information.

#### Request

**GET archives/{archiveId}/entities/{id}/stub.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/stub.json**

The set of entityIdKind values: C, E, I.

#### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional). IMiS®/ARCHive Server 9.9 or higher. |
|---------|---------|--|

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [EntityStubResponse](#).



**Example of the entity public information read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/I:NoDrt8\_b4hXW4IWmfkXcJP6iT  
KNKa\_5j9phT\_bGNRH0/stub.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```
{
  "entity_stub" : {
    "accessed" : "2018-11-05T14:17:59.929+02:00",
    "aip" : true,
    "categories" : [],
    "child_count" : 0,
    "classification_code" : "C=164^C=13^C=063",
    "created" : "2018-09-05T13:54:25",
    "creator" : {
      "email" : "marco.welch@acme.com",
      "first_name" : "Marco",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/marcowelch/avatar",
      "id" : "marcowelch",
      "last_name" : "Welch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/marcowelch.json"
    },
    "description" : "Employees, salary, payroll, pension, promotions, awards",
    "effective_entity_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "external_ids" : [],
    "has_draft" : false,
    "has_references" : true,
    "has_versions" : false,
    "id" : "NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0",
    "keywords" : [
      "staff_appointmens",
      "employee_records",
      "promotion_tenure",
      "awards_recognition",
      "pension_benefits",
      "salary_payroll"
    ],
    "links" : [{
      "type" : "entity:acl",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/acl.json"
    }, {
      "type" : "entity:audit_log",
```

```

      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/audit_log.json"
    }, {
      "type" : "nonrepudiation",
      "uri" : "
      https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/nonrepudiation.json"
    }, {
      "type" : "search",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/search.json"
    }, {
      "type" : "parent",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/BUYeEoFc7P8aoMXUMaZxeDRGZwaajdAy9dYhd0OdNB8/stub.json"
    }, {
      "type" : "entity#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0.json"
    }, {
      "type" : "entity#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0.json"
    }, {
      "type" : "entity:status#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/status.json"
    }, {
      "type" : "entity:security_class#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/security_class.json"
    }, {
      "type" : "entity#move",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0/move.json"
    }, {
      "type" : "entity",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNRH0.json"
    }
  ],
  "modified" : "2018-09-05T13:54:25.466+02:00",
  "opened" : "2018-09-05T13:54:25.466+02:00",
  "owner" : {
    "email" : "marco.welch@acme.com",
    "first_name" : "Marco",
    "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/marcowelch/avatar",
    "id" : "marcowelch",
    "last_name" : "Welch",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/marcowelch.json"
  },
  "permanent" : false,
  "properties" : [{
    "description" : "Non mandatory date of verification",
    "label" : "Verification date",
    "id" : "Verification date",
    "options" : {
      "append_only" : false,
      "included_in_aip" : true,
      "inherited" : false,
      "multi_value" : false,
      "non_empty" : false,

```

```

    "pick_list" : false,
    "public" : true,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create" : false,
    "required" : false,
    "searchable" : true,
    "unique" : false
  },
  "inherited" : false,
  "type" : "DATE",
  "values" : [
    "2018-06-27+02:00"
  ]
},
"public_classification_code" : "164.13.063",
"retention" : {
  "policies" : [{
    "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
    "name" : "10 years",
    "description" : "Dispose after 10 years",
    "explicit_context" : {
      "scope" : "DENY",
      "filter" : {
        "classes" : false,
        "folders" : true,
        "documents" : false
      },
      "effective" : false
    },
    "inherited_context" : [{
      "scope" : "ALLOW",
      "filter" : {
        "classes" : true,
        "folders" : false,
        "documents" : false
      },
      "effective" : true
    }
  ],
  "links" : [{
    "type" : "retention_policy#edit",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNka_5j9phT_bGNRH0/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
  }, {
    "type" : "retention_policy#delete",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNka_5j9phT_bGNRH0/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
  }
  ]
},
"disposition_holds" : [{
  "id" : "DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhIeeGZY",
  "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhIeeGZY.json",
  "name" : "Permanent hold",
  "description" : "Description of hold for permanent entities",
  "links" : [{
    "type" : "disposition_hold#delete",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNka_5j9phT_bGNRH0/retention/disposition_holds/DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhIeeGZY.json"
  }
  ]
}
}

```

```

    ]
  }
]
},
"security_class" : {
  "inherited" : false,
  "value" : "Secret"
},
"significance" : {
  "inherited" : false,
},
"status" : {
  "inherited" : false,
  "value" : "Closed"
},
"sub_entity_templates" : [],
"template" : {
  "entity_type" : "CLASS",
  "id" : "Class",
  "label" : "Class",
  "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
},
"title" : "Human resources and Payroll",
"type" : "CLASS"
}
}

```

## 5.7.4 Entity open

Operation opens an entity for reading and returns a unique identifier of the open entity, which carry out different operations (where the value of *entityIdKind* can equal to H).

### Request

**GET archives/{archiveId}/entities/{id}/open.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/open.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
| reason  | String  | The reason for entity open.                                    |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [EntityOpenResponse](#)

Response status

200 – Entities open successfully.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

**Example of the entity open**Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=72^D=00024/open.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```
{
  "handle" : "b94491ee-55ea-4085-8dab-200a81356191"
}
```

**5.7.5 Entity edit**

Operation opens an entity for reading and writing and returns a unique identifier of the open entity, which carry out different operations (where the value of *entityIdKind* can equal to H).

Request

**GET archives/{archiveId}/entities/{id}/edit.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/edit.json**

The set of entityIdKind values: C, E, I.

Request parameters

|          |         |  |
|----------|---------|--|
| template | String  | New entity template (IMiS®/ARChive Server 9.9 or higher).      |
| version  | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
| reason   | String  | The reason for entity open.                                    |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [EntityOpenResponse](#)

### Response status

200 – Entities open successfully.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

## **Example of the entity update**

### Request

GET <http://apps.imis.eu/scsvc/archives/IARC/entities/C:C=72^D=00024/edit.json>

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

```
{  
  "handle" : "cc4221a5-f231-4180-b91c-9def998527dd"  
}
```

## 5.7.6 Entity create

Operation creates an entity for reading and editing, and returns a unique identifier of the open entity, which carries out different operations (where the value of entityIdKind can equal H).

The entity is saved on attribute change (see chapter [Entity change](#)).

### Request

**GET archives/{archiveId}/create.json**

and

**GET archives/{archiveId}/entities/{id}/create.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/create.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|          |        |                               |
|----------|--------|-------------------------------|
| template | String | The template of the entity.   |
| reason   | String | The reason for entity create. |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [EntityOpenResponse](#)

### **Example of the entity create**

#### Request

GET http://apps.imis.eu/scsvc/archives/IARC/create.json?template=Class

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```
{
  "handle" : "cc4221a5-f231-4180-b91c-9def998527dd"
}
```

**5.7.7 Opening an entity for creating an email message**

The operation creates an entity from an email message for reading and editing, and returns a unique identifier of the opened entity, which carries out different operations (where the value of entityIdKind can equal H). The entity is saved on attribute change.

For more information see chapter [Entity change](#).

Request

**POST archives/{archiveId}/entities/{id}/create/email.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/create/email.json**

The set of entityIdKind values: C, E, I.

Request parameters

|          |        |                                 |
|----------|--------|---------------------------------|
| template | String | The template of the entity.     |
| reason   | String | The reason for entity creation. |

Request header

Authorization: Bearer [session token]

Content-Type: message/rfc822, application/vnd.ms-outlook, application/msoutlook,  
application/x-msoutlook ali application/vnd.msoutlook

Request content

The set of email content data.

Response

See chapter [EntityOpenResponse](#)



## Response status

200 – Entities open successfully.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

## **Example of opening an entity for creating an email message**

### Request

POST

http://apps.imis.eu/scsvc/archives/IARC/entities/C:C=01/create/email.json?template=Email

### Request header

Authorization: Bearer 23800447HD41cYrUbmngGE4GcKacv9EMrW77NVoFiFBJq2FeA

Content-Type: message/rfc822

### Request content

```
Received: from a39-217.smtp-out.imis.com ([54.240.39.217])
  by nanos.imis.si
  with ESMTTP id 2020092419300974-21094 ;
  Thu, 24 Sep 2020 19:30:09 +0200
DKIM-Signature: v=1; a=rsa-sha256; q=dns/txt; c=relaxed/simple;
 s=224i4yxa5dv7c2xz3womw6peuasteono; d=imis.com; t=1600968607;
 h=Content-Type:MIME-Version:From:To:CC:Subject:Date:Message-ID:Feedback-ID;
 bh=iE83DDE7N9EwD4es1thVr1RYZJZML9WyZK2vwLyJUhw=;
 b=P+MVB81K/qlTxjVhXkAteHWW2fqUZ3d/J895vzGHLhPWBRTeAmwo+t4+66T51Y1
 ryWzqR6f61lVgw2Q+p76IN3WPOCx/QIvjSg08LIzACZWFCqfHeOxNbSEea36f6spKaT
 UXKS1sRbKdADakfy39sn44/ixeyu7/DhA8RiCmPE=
MIME-Version: 1.0
From: "IMiS" <no-reply@imis.si>
To: b.d@imis.si
CC:
Subject: Keep your files backed up online
Date: Thu, 24 Sep 2020 17:30:07 +0000
Message-ID: <01000174c12a46d1-56569765-f150-4751-a87b-5afa3d020879-000000@email.imis.com>
X-Dropbox-Message-ID: 5519190576128776696
X-SES-Outgoing: 2020.09.24-54.240.39.217
Feedback-ID: 1.us-east-1.syWQ1+fF8WoltY8y/+s85ptiAKu7bILK6PHyxwpB+xo=:IMiSES
X-MIMETrack: Itemize by SMTP Server on D1/Ext/IMiS at 24.09.2020 19:30:09,
  Serialize by smdreal on D1/Ext/IMiS at 24.09.2020 19:30:10,
  Serialize complete at 24.09.2020 19:30:10,
  Serialize by notes2.exe on BD/IMiS(Release 9.0.1FP9|August
  15, 2017) at 05. 10. 2020 13:57:58,
  Serialize complete at 05. 10. 2020 13:57:58
X-Notes-Item: 92B9868A:9FD46C29-B4A9839A:0DA9A7B9;
 type=4; name=$INetOrig
X-Notes-Item: Thu, 24 Sep 2020 17:30:07 +0000;
 type=400; name=$Created
X-TNEFEvaluated: 1
...
```

### Response

```
{  
  "handle" : "cc4221a5-f231-4180-b91c-9def998527dd"  
}
```

## 5.7.8 Entity close

The operation closes an open entity. The entity is closed with an obtained session token when opening it for reading or editing or creating. When the entity is closed, the answer is without content and the success of the operation is demonstrated with the status of the answer.

### Request

**GET archives/{archiveId}/entities/{handle}/close.json**

and

**GET archives/{archiveId}/entities/H:{handle}/close.json**

### Request header

Authorization: Bearer [session token]

### Response status

200 – Open entity closed successfully.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

### **Example of the entity close**

#### Request

GET http://apps.imis.eu/scsvc/archives/IARC/entities/H:cc4221a5-f231-4180-b91c-9def998527dd/close.json

#### Request header

Authorization:Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

200 – Open entity closed successfully.

**5.7.9 Entity read**

Operation reads an entity information. In addition to the publicly available data, data on objects, physical archive and email, if available.

Request**GET archives/{archiveId}/entities/{id}.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}.json**

The set of entityIdKind values: C, E, I, H.

Request parameters

|           |         |   |
|-----------|---------|---|
| fields    | String  | Defines the fields in the reply.  |
| flat      | Boolean | Specifies whether the response shows child objects as a flat list.                      |
| max_level | Integer | Specifies the level of child objects only if tree = true, default value = 0 (show all). |
| reason    | String  | The reason for entity open.   |
| tree      | Boolean | Specifies whether the response shows child objects as a tree structure.                 |
| version   | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).                          |

Request header

Authorization: Bearer [session token]

Response

See chapter [EntityResponse](#)

**Example of the entity read**Request

GET https://apps.imis.eu/scsvc/archives/IARC98/entities/I:EgNBsFXQy-GZIXaDGET6HwMo4f8KslamaEM3gt5QbqA.json

**Request header**

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

**Response**

```
{
  "entity" : {
    "accessed" : "2018-11-02T16:41:14.057+01:00",
    "aip" : true,
    "categories" : [],
    "child_classification_code_mode" : "AUTOMATIC",
    "child_count" : 1,
    "classification_code" : "C=164^C=15",
    "closed" : "2016-07-15T13:23:12.007+2:00",
    "created" : "2016-07-11T16:43:03.262+2:00",
    "creator" : {
      "email" : "grace.layton@acme.com",
      "first_name" : "Grace",
      "icon_url" :
"https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton/avatar",
      "id" : "gracelayton",
      "last_name" : "Layton",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton.json"
    },
    "description" : "",
    "effective_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "external_ids" : [
      "externalId61"
    ],
    "has_draft" : false,
    "has_references" : true,
    "has_versions" : false,
    "id" : "EgNBsFXQy-GZlXaDGET6HwMo4f8KslamaEM3gt5QbqA",
    "keywords" : [
      "planning",
      "control",
      "work_organization",
      "procurement",
      "manufacturing",
      "quality",
      "maintenance"
    ],
    "links" : [{
      "type" : "entity:acl",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/acl.json"
    }, {
      "type" : "entity:audit_log",
      "uri" : "
https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0.json"
    }, {
      "type" : "entities",

```

```

      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/entities.json"
    }, {
      "type" : "nonrepudiation",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/nonrepudiation.json"
    }, {
      "type" : "search",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/search.json"
    }, {
      "type" : "parant",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/entities/I:pkb-hHfEVShBrCylMmrEHixb7jJPxrmboiRMkLuuHh0.json"
    }, {
      "type" : "entity:stub",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/stub.json"
    }, {
      "type" : "entity#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0.json"
    }, {
      "type" : "entity#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0.json"
    }, {
      "type" : "entity:status#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/status.json"
    }, {
      "type" : "entity:security_class#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/security_class.json"
    }, {
      "type" : "entity#move",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:120341b055d0cbe1999576831844fa1f0328e1ff0ab256a668433782de506ea0/move.json"
    }
  ],
  "modified" : "2018-07-11T16:43:03.262+02:00",
  "modified_by" : {
    "email" : "grace.layton@acme.com",
    "first_name" : "Grace",
    "icon_url" :
    "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton/avatar",
    "id" : "gracelayton",
    "last_name" : "Layton",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton.json"
  }
  "opened" : "2018-07-11T16:43:03.262+02:00",
  "owner" : {
    "email" : "grace.layton@acme.com",
    "first_name" : "Grace",
    "icon_url" :
    "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton/avatar",
    "id" : "gracelayton",
    "last_name" : "Layton",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton.json"
  },
  "parent_id" : "pkb-hHfEVShBrCylMmrEHixb7jJPxrmboiRMkLuuHh0",
  "permanent" : false,

```

```

"properties" : [{
  "description" : "Non mandatory date of verification",
  "label" : "Verification date",
  "id" : "Verification date",
  "options" : {
    "append_only" : false,
    "included_in_aip" : true,
    "inherited" : false,
    "multi_value" : false,
    "non_empty" : false,
    "pick_list" : false,
    "public" : true,
    "read_only" : false,
    "required" : false,
    "searchable" : true,
    "unique" : false
  },
  "inherited" : false,
  "type" : "DATE",
  "values" : [
    "2018-06-27+2:00"
  ],
  }
],
"public_classification_code" : "164.15"
"retention" : {
  "policies" : [{
    "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
    "name" : "10 years",
    "description" : "Dispose after 10 years",
    "explicit_context" : {
      "scope" : "ALLOW",
      "filter" : {
        "classes" : true,
        "folders" : false,
        "documents" : true
      },
      "effective" : true
    },
    "inherited_context" : [{
      "scope" : "ALLOW",
      "filter" : {
        "classes" : true,
        "folders" : false,
        "documents" : false
      },
      "effective" : true
    }
  ],
  "links" : [{
    "type" : "retention_policy#edit",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/120341b055d0cbe1999576831844fal1f0328e1ff0ab256a668433782de506ea0/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
  }, {
    "type" : "retention_policy#delete",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/I20341b055d0cbe1999576831844fal1f0328e1ff0ab256a668433782de506ea0/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
  }
  ]
},
"disposition_holds" : [{
  "id" : "pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_T27QH8sQC4",
  "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_T27QH8sQC4.json",

```

```

        "name" : "Permanent hold",
        "description" : "Entity is on permanent hold",
        "links" : [{
            "type" : "disposition_hold#delete",
            "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/120341b055d0cbe1999576831844fa1f0328e1ff0
ab256a668433782de506ea0/retention/disposition_holds/pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_T27QH8s
QC4.json"
        }
    ]
}
},
"security_class" : {
    "inherited" : false,
    "value" : "Top Secret"
},
"significance" : {
    "inherited" : false,
    "value" : "Vital"
},
"status" : {
    "inherited" : false,
    "value" : "Closed"
},
"template" : {
    "entity_type" : "CLASS",
    "id" : "Class",
    "label" : "Class",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
},
"title" : "Supply Chain Management",
"type" : "CLASS"
}
}

```

### 5.7.10 Entity create

Operation creates an entity under the selected entity or archive root.

#### Request

##### **POST archives/{archiveld}.json**

Create an entity on under the archive root.

and

##### **POST archives/{archiveld}/entities/{id}.json**

Create an entity under the selected entity.

and

##### **POST archives/{archiveld}/entities/{entityIdKind}:{id}.json**

Create an entity under the selected entity. The set of entityIdKind values: C, E, I.

### Request parameters

|        |        |                                 |
|--------|--------|---------------------------------|
| reason | String | The reason for entity creation. |
|--------|--------|---------------------------------|

### Request header

Authorization: Bearer [session token]

Content-Type: application/json

### Request content

See chapter [EntityCreateRequest](#)

### Response

See chapter [EntityResponse](#)

### Response status

200 – Entity created successfully.

400 – Bad request.

401 – Invalid session.

404 - Objects not found.

500 - Server error.

## **Example of the entity create**

### Request

POST https://apps.imis.eu/scsvc/archives/IARC/entities/5QU235hDXyEJOuJ8\_Z\_XY-DWTaHK7cpR.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: application/json



## Request content

```
{
  "entity_create" : {
    "categories" : [
      "banking"
    ],
    "description" : "",
    "keywords" : [
      "accounts_payable",
      "accounts_receiveable",
      "banking",
      "budgeting",
      "payments"
    ],
    "owner" : "johnsmith",
    "properties" : [{
      "id" : "Verification date",
      "values" : ["2018-06-27+09:00"]
    }, {
      "id" : "Validation date",
      "values" : ["2018-06-27T12:12:00.000+1:00"]
    }
  ],
  "template" : "Class",
  "title" : "Finance"
}
}
```

## Response

```
{
  "entity" : {
    "accessed" : "2018-11-03T10:19:33.817+01:00",
    "aip" : true,
    "categories" : [],
    "child_classification_code_mode" : "AUTOMATIC",
    "child_count" : 0,
    "classification_code" : "C=196^C=23",
    "created" : "2018-11-03T10:29:33.817+01:00",
    "creator" : {
      "email" : "john.smith@acme.com",
      "first_name" : "John",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith/avatar",
      "id" : "johnsmith",
      "last_name" : "Smith",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith.json"
    },
    "description" : "",
    "effective_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "external_ids" : [],
    "has_draft" : false,
    "has_references" : true,
    "has_versions" : false,
    "id" : "WSeKYWBkVzY8RTXaPfVxatwkB7j0lrcDBPICD8pr4kg",
    "keywords" : [

```

```

    "accounts_payable",
    "accounts_receivable",
    "banking",
    "payments"
  ],
  "links" : [{
    "type" : "entity:acl",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/acl.json"
  }, {
    "type" : "entity:audit_log",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/audit_log.json"
  }, {
    "type" : "nonrepudiation",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/nonrepudiation.json"
  }, {
    "type" : "search",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/search.json"
  }, {
    "type" : "parent",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg.json"
  }, {
    "type" : "entity:stub",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/stub.json"
  }, {
    "type" : "entity#edit",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg.json"
  }, {
    "type" : "entity#delete",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg.json"
  }, {
    "type" : "entity:status#edit",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/status.json"
  }, {
    "type" : "entity:security_class#edit",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/security_class.json"
  }, {
    "type" : "entity#move",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/WSekYWBkVzY8RTXaPfvXatwkB7jOlrCDBPICD8pr4
    kg/move.json"
  }
  ],
  "modified" : "2018-11-03T10:29:33.817+01:00",
  "opened" : "2018-11-03T10:29:33.817+01:00",
  "owner" : {
    "email" : "john.smith@acme.com",
    "first_name" : "John",
    "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith/avatar",
    "id" : "johnsmith",
    "last_name" : "Smith",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith.json"
  }
}

```

```

    },
    "parent_id" : "g3kNhfhPtrIBwVYQSmI59IyuBkPyHN_kTGTx8kIGl9s",
    "permanent" : false,
    "properties" : [{
      "id" : "Verification date",
      "description" : "Non mandatory date of verification",
      "type" : "DATE",
      "options" : {
        "append_only" : false,
        "included_in_aip" : true,
        "inherited" : false,
        "multi_value" : false,
        "non_empty" : false,
        "pick_list" : false,
        "public" : true,
        "read_only" : false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required" : false,
        "searchable" : true,
        "unique" : false
      },
      "inherited" : false,
      "values" : [
        "2016-06-27+09:00"
      ],
      "effective_rights" : {
        "read_access" : true,
        "write_access" : true,
        "create_access" : true,
        "delete_access" : true
      }
    }], {
      "id" : "Validation date",
      "description" : "Non mandatory validation date",
      "type" : "DATE",
      "options" : {
        "append_only" : false,
        "included_in_aip" : true,
        "inherited" : false,
        "multi_value" : false,
        "non_empty" : false,
        "pick_list" : false,
        "public" : true,
        "read_only" : false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required" : false,
        "searchable" : true,
        "unique" : false
      },
      "inherited" : false,
      "values" : [
        "2016-06-27T12:12:00.000+01:00"
      ]
    }],
    "public_classification_code" : "196.23"
  }, {
    "retention" : {
      "policies" : [{
        "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
        "name" : "10 years",
        "description" : "Dispose after 10 years",
        "inherited_context" : {
          "scope" : "ALLOW",
          "filter" : {
            "classes" : true,
            "folders" : false,

```

```

        "documents" : false
    },
    "effective" : true
},
"links" : [{
    "type" : "retention_policy#edit",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/policies/AywTRqK
detY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
}, {
    "type" : "retention_policy#delete",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/policies/AywTRqK
detY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
}
]
},
],
"disposition_holds" : [{
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5
_T27QH8sQC4.json",
    "name" : "Permanent hold",
    "description" : "Description of hold for permanent entitites",
    "links" : [{
        "type" : "disposition_hold#delete",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/disposition_hold
s/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4.json"
}
]
}
]
},
},
"security_class" : {
    "inherited" : true,
    "value" : "Top secret"
},
},
"significance" : {
    "inherited" : true,
},
},
"status" : {
    "inherited" : true,
    "value" : "Opened"
},
},
"sub_entities_templates" : [{
    "entity_type" : "CLASS",
    "id" : "Class",
    "label" : "Class",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
}, {
    "entity_type" : "FOLDER",
    "id" : "Case",
    "label" : "Case",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Case.json"
}, {
    "entity_type" : "DOCUMENT",
    "id" : "Document",
    "label" : "Document",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Document.json"
}, {
    "entity_type" : "DOCUMENT",
    "id" : "Email",
    "label" : "Email",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Email.json"
}
]
},
"template" : {
    "entity_type" : "CLASS",
    "id" : "Class",

```

```

    "label" : "Class",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
  },
  "title" : "Administration",
  "type" : "CLASS"
}
}

```

### 5.7.11 Creating an entity from an email message

The operation creates an entity under the selected entity from the email message content.

Compatibility: IMiS®/ARChive Server 10.1 or higher.

#### Request

#### **POST archives/{archiveld}/entities/{id}/email.json**

Creates an entity under the selected entity.

and

#### **POST archives/{archiveld}/entities/{entityIdKind}:{id}/email.json**

Creates an entity under the selected entity. The set of entityIdKind values: C, E, I.

#### Request parameters

|          |        |  |
|----------|--------|--|
| Reason   | String | The reason for entity creation.                  |
| Template | String | The unique identifier of the template of entity. |
| Title    | String | The title of the entity (optional).              |

#### Request header

Authorization: Bearer [session token]

Content-Type: message/rfc822, application/vnd.ms-outlook, application/msoutlook, application/x-msoutlook ali application/vnd.msoutlook

#### Request content

The set of email content data.

Response

See chapter [EntityResponse](#)

Response status

200 – Entity created successfully.

400 – Bad request.

401 – Invalid session.

404 - Objects not found.

500 - Server error.

**Example of creating an entity from an email message under the selected entity**Request

POST https://apps.imis.eu/scsvc/archives/IARC/entities/5QU235hDXyEJOuJ8\_Z\_XY-DWTaHK7cpR/email.json

Request header

Authorization: Bearer 23800447HD41cYrUbmngGE4GcKacv9EMrW77NVofFiFBjQ2FeA

Content-Type: message/rfc822

Request content

```
Received: from a39-217.smtp-out.imis.com ([54.240.39.217])
  by nanos.imis.si
  with ESMTTP id 2020092419300974-21094 ;
  Thu, 24 Sep 2020 19:30:09 +0200
DKIM-Signature: v=1; a=rsa-sha256; q=dns/txt; c=relaxed/simple;
 s=224i4yxa5dv7c2xz3womw6peuasteono; d=imis.com; t=1600968607;
 h=Content-Type:MIME-Version:From:To:CC:Subject:Date:Message-ID:Feedback-ID;
 bh=iE83DDE7N9EwD4es1thVr1RYZJZML9WyZK2vwLyJUhw=;
 b=P+MVB81K/q1TxjVhxkAteHWW2fqUZ3d/J895vzGHLhPWBRTeAMwo+t4+66T51Y1
 ryWzgR6f611Vgw2Q+p76IN3WPOCx/QIvjsG08LizACZWFCqfHeOxNbSEea36f6spKaT
 UXXS1SrBKdDAdkfy39sn44/ixeyu7/DhA8RIcMPE=
MIME-Version: 1.0
From: "IMiS" <no-reply@imis.si>
To: b.d@imis.si
CC:
Subject: Keep your files backed up online
Date: Thu, 24 Sep 2020 17:30:07 +0000
Message-ID: <01000174c12a46d1-56569765-f150-4751-a87b-5afa3d020879-000000@email.imis.com>
X-Dropbox-Message-ID: 5519190576128776696
X-SES-Outgoing: 2020.09.24-54.240.39.217
Feedback-ID: 1.us-east-1.syWQ1+fF8Wo1tY8y/+s85ptiAKu7bILK6PHyxwpB+xo=:IMiSES
X-MIMETrack: Itemize by SMTP Server on D1/Ext/IMiS at 24.09.2020 19:30:09,
  Serialize by smdreal on D1/Ext/IMiS at 24.09.2020 19:30:10,
  Serialize complete at 24.09.2020 19:30:10,
  Serialize by notes2.exe on BD/IMiS(Release 9.0.1FP9|August
  15, 2017) at 05. 10. 2020 13:57:58,
```

```

Serialize complete at 05. 10. 2020 13:57:58
X-Notes-Item: 92B9868A:9FD46C29-B4A9839A:0DA9A7B9;
type=4; name=$INetOrig
X-Notes-Item: Thu, 24 Sep 2020 17:30:07 +0000;
type=400; name=$Created
X-TNEFEvaluated: 1

...

```

## Response

```

{
  "entity" : {
    "accessed" : "2020-10-03T10:19:33.817+01:00",
    "aip" : true,
    "categories" : [],
    "child_classification_code_mode" : "AUTOMATIC",
    "child_count" : 0,
    "classification_code" : "C=196^C=73",
    "created" : "2020-10-03T10:29:33.817+01:00",
    "creator" : {
      "email" : "john.smith@acme.com",
      "first_name" : "John",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith/avatar",
      "id" : "johnsmith",
      "last_name" : "Smith",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith.json"
    },
    "description" : "",
    "effective_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "email_properties": {
      "subject": "FW: » We execute 90% more deals with the same number of employees «",
      "from": "Witzel Georg <georg.witzel@dlcr.cz>",
      "to": [
        "marko.hren@imis.si <marko.hren@imis.si>"
      ],
      "cc": [],
      "bcc": [],
      "date": "2012-11-01T14:35:43.000Z",
      "message_id": "07394085585E684BA5C4E8CCAFF627EB010C7543@SPHEX02.dleasing.local",
      "signed": true
    },
    "external_ids" : [],
    "has_draft" : false,
    "has_references" : true,
    "has_versions" : false,
    "id" : "9LCM2JSF3A005Y5AB4XVzy4KJCraRzrL",
    "keywords" : [],
    "modified" : "2020-10-03T10:29:33.817+01:00",
    "modified_by": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "objects": [

```

```

    {
      "id": "AO7130yVXZh8W-dzcs3U4sq5zwGtTxg5",
      "description": "07394085585E684BA5C4E8CCAFF627EB010C7543@SPHEX02.dleasing.local",
      "size": 572490,
      "created": "2020-10-03T10:29:33.817+01:00",
      "accessed": "2020-10-03T10:29:33.817+01:00",
      "modified": "2020-10-03T10:29:33.817+01:00",
      "content_type": "message/rfc822",
      "extension": ".eml",
      "child_count": 0,
      "signed": true,
      "indexed": true,
      "children": []
    },
    {
      "id": "AcQYzej4kqhewl0LZ4reJyY8G63C5dsR",
      "description": "IMiS letter_Deutsche Leasing_Reichel.pdf",
      "size": 389064,
      "created": "2020-10-03T10:29:33.817+01:00",
      "accessed": "2020-10-03T10:29:33.817+01:00",
      "modified": "2020-10-03T10:29:33.817+01:00",
      "content_type": "application/pdf",
      "extension": ".pdf",
      "child_count": 0,
      "signed": false,
      "indexed": true,
      "children": []
    },
    {
      "id": "D0wuj9Ec2l8PJBSFMs3wB9q4wzguvlSm",
      "description": "smime.p7s",
      "size": 7443,
      "created": "2020-10-03T10:29:33.817+01:00",
      "accessed": "2020-10-03T10:29:33.817+01:00",
      "modified": "2020-10-03T10:29:33.817+01:00",
      "content_type": "application/pkcs7-signature",
      "extension": ".p7s",
      "child_count": 0,
      "signed": false,
      "indexed": false,
      "children": []
    }
  ],
  "opened": "2020-10-03T10:29:33.817+01:00",
  "owner": {
    "email": "john.smith@acme.com",
    "first_name": "John",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith/avatar",
    "id": "johnsmith",
    "last_name": "Smith",
    "uri": "https://apps.imis.eu/scsvc/archives/IARC/directory/johnsmith.json"
  },
  "parent_id": "g3kNhfhPtrIBwVYQsmi59IyuBkPyHN_kTGTX8kIG19s",
  "permanent": false,
  "public_classification_code": "196.73"
  "retention": {
    "policies": [{
      "id": "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
      "uri": "https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
      "name": "10 years",
      "description": "Dispose after 10 years",
      "inherited_context": {
        "scope": "ALLOW",
        "filter": {
          "classes": true,
          "folders": false,
          "documents": false
        }
      },
      "effective": true
    }],
  }
}

```



```

    },
    "links" : [{
      "type" : "retention_policy#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/policies/AywTRqK
      detY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
    }, {
      "type" : "retention_policy#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/policies/AywTRqK
      detY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
    }
  ]
},
"disposition_holds" : [{
  "id" : "pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_T27QH8sQC4",
  "uri" :
  "https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/pmn03Bze3jqedwBH1fOjIvMeZveMRzX5
  _T27QH8sQC4.json",
  "name" : "Permanent hold",
  "description" : "Description of hold for permanent entitites",
  "links" : [{
    "type" : "disposition_hold#delete",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=196%5EC=23/retention/disposition_hold
    s/pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_T27QH8sQC4.json"
  }
]
}
],
},
"security_class" : {
  "inherited" : true,
  "value" : "Top secret"
},
"significance" : {
  "inherited" : true,
},
"status" : {
  "inherited" : true,
  "value" : "Opened"
},
"sub_entities_templates" : [],
"template" : {
  "entity_type" : "DOCUMENT",
  "id" : "Email",
  "label" : "Email",
  "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Email.json"
},
"title" : "FW: » We execute 90% more deals with the same number of employees «",
"type" : "DOCUMENT"
}
}

```

## 5.7.12 Entity delete

Operation deletes an entity.

### Request

**DELETE archives/{archiveId}/entities/{id}.json**

and

**DELETE archives/{archiveId}/entities/{entityIdKind}:{id}.json**

The set of entityIdKind values: C, E, I.

### Request header

Authorization: Bearer [session token]

### Request parameters

|             |         |  |
|-------------|---------|--|
| reason      | String  | The reason for entity delete.                                  |
| description | String  | A description of the deleted entity (optional).                |
| version     | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |

### Response status

200 – Entity deleted successfully.

401 – Invalid session.

404 - Object not found.

500 - Server error.

### **Example of the entity delete**

#### Request

DELETE https://apps.imis.eu/scsvc/archives/IARC/entities/I:GNKjylwN7onZfJEm-nnsOdUEtvEQOGvC-RUxtCgu4w.json?reason=test&description=opis

Response status

200 – Entity deleted successfully.

**5.7.13 Entity change**

Operation changes an entity attributes.

Request

**PUT archives/{archiveId}/entities/{id}.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}.json**

The set of entityIdKind values: C, E, I, H.

Request parameters

|           |         |   |
|-----------|---------|---|
| tree      | Boolean | Specifies whether the response shows child objects as a tree structure.                 |
| flat      | Boolean | Specifies whether the response shows child objects as a flat list.                      |
| max_level | Integer | Specifies the level of child objects only if tree = true, default value = 0 (show all). |
| version   | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).                          |
| reason    | String  | The reason for entity open.   |
| fields    | String  | Defines the fields in the reply.  |

Request header

Authorization: Bearer [session token]

Request content

See chapter [EntityUpdateRequest](#)

Response

See chapter [EntityResponse](#)

### Response status

200 – Entity changed successfully.

400 – Bad request.

401 – Invalid session.

404 - Objects does not exist.

500 - Server error.

### **Example of the entity change**

#### Request

PUT [https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBkPyHN\\_kTGTX8kIGI9s.json](https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBkPyHN_kTGTX8kIGI9s.json)

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Request content

```
{
  "entity_update": {
    "description": "Company documentation, Correspondence, Organization",
    "keywords": [
      "company",
      "documentation",
      "correspondence",
      "organization"
    ],
    "owner": "gracelayton",
    "title": "Administration"
  }
}
```

#### Response

```
{
  "entity" : {
    "accessed" : "2018-11-07T16:07:22.728+01:00",
    "aip" : true,
    "child_classification_code_generated" : true,
    "child_count" : 30,
    "classification_code" : "C=196",
    "created" : "2018-09-13T11:13:50.219+02:00",
    "creator" : {
      "email" : "grace.layton@acme.com",
      "first_name" : "Grace",
      "icon_url" :
"https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton/avatar",
      "id" : "gracelayton",
      "last_name" : "Layton",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton.json"
    },
    "description" : "Company documentation, Correspondence, Organization",
```

```

    "effective_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "external_ids" : [],
    "id" : "g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s",
    "keywords" : [
      "company",
      "documentation",
      "correspondence",
      "organization"
    ],
    "links" : [{
      "type" : "entity:acl",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/acl.json"
    }, {
      "type" : "entity:audit_log",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/audit_log.json"
    }, {
      "type" : "entities",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/audit_log.json"
    }, {
      "type" : "nonrepudiation",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/nonrepudiation.json"
    }, {
      "type" : "search",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/search.json"
    }, {
      "type" : "entity:stub",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/stub.json"
    }, {
      "type" : "entity#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s.json"
    }, {
      "type" : "entity#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s.json"
    }, {
      "type" : "entity:status#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/status.json"
    }, {
      "type" : "entity:security_class#edit",
      "uri" :
      https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/security_class.json
    }
  ]

```

```

    }, {
      "type" : "entity#move",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTX8kIGL
9s/move.json"
    }
  ],
  "modified" : "2016-11-07T16:07:22.728+01:00",
  "opened" : "2016-09-13T12:55:42.003+2:00",
  "owner" : {
    "email" : "grace.layton@acme.com",
    "first_name" : "Grace",
    "icon_url" :
"https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton/avatar",
    "id" : "gracelayton",
    "last_name" : "Layton",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/gracelayton.json"
  },
  "permanent" : false,
  "properties" : [{
    "id" : "Verification date",
    "description" : "Non mandatory date of verification",
    "type" : "DATE",
    "options" : {
      "append_only" : false,
      "included_in_aip" : true,
      "inherited" : false,
      "multi_value" : false,
      "non_empty" : false,
      "pick_list" : false,
      "public" : true,
      "read_only" : false,
      "read_only_after_check_in" : false,
      "read_only_after_create" : false,
      "required" : false,
      "searchable" : true,
      "unique" : false,
      "versionable" : false
    },
    "values" : [
      "2018-06-27Z"
    ],
    "effective_rights" : {
      "create_access" : true,
      "delete_access" : true,
      "read_access" : true,
      "write_access" : true,
    },
    {
      "id" : "Validation date",
      "description" : "Non mandatory validation date",
      "type" : "DATE",
      "options" : {
        "append_only" : false,
        "included_in_aip" : true,
        "inherited" : false,
        "multi_value" : false,
        "non_empty" : false,
        "pick_list" : false,
        "public" : true,
        "read_only" : false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required" : false,
        "searchable" : true,
        "unique" : false,
        "versionable" : false
      },
      "values" : [
        "2018-09-20T21:40:00.000Z"
      ]
    }
  ]
}

```

```

    ],
    "public_classification_code" : "196",
    "retention" : {
      "policies" : [{
        "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
        "name" : "10 years",
        "description" : "Dispose after 10 years",
        "explicit_context" : {
          "scope" : "ALLOW",
          "filter" : {
            "classes" : true,
            "folders" : false,
            "documents" : false
          },
          "effective" : true
        },
        "inherited_context" : [],
        "links" : [{
          "type" : "retention_policy#edit",
          "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
        }, {
          "type" : "retention_policy#delete",
          "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
        }
      ]
    }
  ],
  "disposition_holds" : [{
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4.json",
    "name" : "Permanent hold",
    "description" : "Description of hold for permanent entities",
    "links" : [{
      "type" : "disposition_hold#delete",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/retention/disposition_holds/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4.json"
    }
  ]
}
],
"security_class" : {
  "inherited" : false,
  "value" : "Top Secret"
},
"significance" : {
  "inherited" : true,
},
"status" : {
  "inherited" : false,
  "value" : "Opened"
},
"sub_entity_templates" : [{
  "entity_type" : "CLASS",
  "id" : "Class",
  "label" : "Class",
  "id" : "Class",
  "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
}
],
"template" : {

```

```
    "entity_type" : "CLASS",
    "id" : "Class",
    "label" : "Class",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
  },
  "title" : "Administration",
  "type" : "CLASS"
}
```

### 5.7.14 Entity status change

Operation change the entity status.

#### Request

**PUT archives/{archiveId}/entities/{id}/status.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/status.json**

The set of entityIdKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

#### Request content

See chapter [EntityStatusUpdateRequest](#)

#### Response

See chapter [EntityStatusUpdateResponse](#)

#### Response status

200 – Entity status changed successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.



**Example of the entity status change to Inherited value**Request

PUT https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/status.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Request content

```
{
  "status" : {
    "inherited" : true
  },
  "reason" : "Status check"
}
```

Response

```
{
  "status" : {
    "inherited" : true,
    "value" : "Opened"
  }
}
```

**Example of the entity status change to Closed value**Request

PUT https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/status.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Request content

```
{
  "status" : {
    "value" : "Closed"
  },
  "reason" : "Status check"
}
```

## Response

```
{
  "status" : {
    "inherited" : false,
    "value" : "Closed"
  }
}
```

### **5.7.15 Entity security class change**

Operation change the entity security class.

#### Request

**PUT archives/{archiveId}/entities/{id}/security\_class.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/security\_class.json**

The set of entityIdKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

#### Request content

See chapter [EntitySecurityClassUpdateRequest](#)

#### Response

See chapter [EntitySecurityClassUpdateResponse](#)

#### Response Status

200 – Entity security class changed successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity security class change to Inherited value**Request

PUT [https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/security\\_class.json](https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/security_class.json)

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Request content

```
{
  "security_class" : {
    "inherited" : true
  },
  "reason" : "Security class check"
}
```

Response

```
{
  "security_class" : {
    "inherited" : true
  }
}
```

**Example of the entity security class change to Top Secret value**Request

PUT [https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/security\\_class.json](https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=164^C=06/security_class.json)

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Request content

```
{
  "security_class" : {
    "value" : "Top Secret"
  },
  "reason" : "Security class check"
}
```

## Response

```
{
  "security_class" : {
    "inherited" : false,
    "value" : "Top Secret"
  }
}
```

## 5.7.16 Entity classification code change

Operation change the entity classification code.

### Request

**PUT archives/{archiveId}/entities/{id}/classification\_code.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/classification\_code.json**

The set of entityIdKind values: C, E, I.

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityClassificationCodeUpdateRequest](#)

### Response

See chapter [EntityClassificationCodeUpdateResponse](#)

### Response status

200 - Entity classification code updated successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity classification code change**Request

PUT

https://apps.imis.eu/scsvc/archives/IARC/entities/9LCM2JSf3A005Y5AB4XVzy4KJCraRzrL/  
classification\_code.json

Request header

Authorization: Bearer d0f9eb898c434dd4ba94c9eb898c434dd4ba94c471fa53f0471fa53f0

Request content

```
{
  "classification_code" : "1004",
  "reason" : "Classification code check"
}
```

Response

```
{
  "classification_code" : "C=5^D=1004",
  "public_classification_code" : "5/1004"
}
```

**5.7.17 Entity retention policy create**

Operation creates an entity retention policy.

Request

**POST archives/{archiveId}/entities/{id}/retention/policies.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/retention/policies.json**

The set of entityIdKind values: C, E, I.

Request parameters

|        |        |                             |
|--------|--------|-----------------------------|
| reason | String | The reason for entity open. |
|--------|--------|-----------------------------|

Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityRetentionPoliciesRequest](#)

### Response

See chapter [EntityRetentionPoliciesResponse](#)

### Response status

200 - Entity retention policies created successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the retention policies create**

### Request

POST <https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/retention/policies.json>

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "retention_policies" : [{
    "id" : "Pqc5zK58VmPaRlQ-pIaVhOV15shGuLwvS40vEkzd3JE",
    "scope" : "ALLOW",
    "filter" : {
      "classes" : true,
      "folders" : true
    }
  }
]
```

## Response

```
{
  "retention_policies" : [{
    "id" : "Pqc5zK58VmPaRlQ-pIaVhOV15shGuLwvS4OvEkzd3JE",
    "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/Pqc5zK58VmPaRlQ-pIaVhOV15shGuLwvS4OvEkzd3JE.json",
    "name" : "5 years",
    "description" : "Retention 5 years after entity was closed",
    "explicit_context" : {
      "scope" : "ALLOW",
      "filter" : {
        "classes" : true,
        "folders" : true,
        "documents" : false
      },
      "effective" : false
    },
    "inherited_context" : [],
    "links" : [{
      "type" : "retention_policy#edit",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/C:C=191/retention/policies/Pqc5zK58VmPaRlQ-pIaVhOV15shGuLwvS4OvEkzd3JE.json"
    }, {
      "type" : "retention_policy#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/C:C=191/retention/policies/Pqc5zK58VmPaRlQ-pIaVhOV15shGuLwvS4OvEkzd3JE.json"
    }
  ]
  }
]
```

## 5.7.18 Entity retention policy change

Operation changes an entity retention policy.

### Request

**PUT archives/{archiveId}/entities/{id}/retention/policies/{idRetentionPolicy}.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/retention/policies/{idRetentionPolicy}.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|        |        |                             |
|--------|--------|-----------------------------|
| reason | String | The reason for entity open. |
|--------|--------|-----------------------------|

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityRetentionPolicyEntryRequest](#)

### Response

See chapter [EntityRetentionPolicyEntryResponse](#)

### Response status

200 - Entity retention policy changed successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the entity retention policy change.**

### Request

PUT [https://apps.imis.eu/scsvc/archives/IARC/entities/c4ea1c84c7cb42294add3e34da6c7eb87c28de90ac48a80dbfade77759476b79/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4\\_raqO6O1bOIC\\_r4lpw.json](https://apps.imis.eu/scsvc/archives/IARC/entities/c4ea1c84c7cb42294add3e34da6c7eb87c28de90ac48a80dbfade77759476b79/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO6O1bOIC_r4lpw.json)

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "retention_policy": {
    "scope": "DENY",
    "filter": {
      "documents" : true
    }
  }
}
```



## Response

```

{
  "retention_policy": {
    "id": "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
    "uri":
    "https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
    "name": "10 years",
    "description": "Dispose after 10 years",
    "explicit_context": {
      "scope": "DENY",
      "filter": {
        "classes" : false,
        "folders" : false,
        "documents" : true
      }
    },
    "effective": false
  },
  "inherited_context": [
    {
      "scope": "ALLOW",
      "filter": {
        "classes" : true,
        "folders" : false,
        "documents" : false
      }
    },
    {
      "scope": "ALLOW",
      "filter": {
        "classes" : true,
        "folders" : false,
        "documents" : true
      }
    }
  ],
  "links": [
    {
      "type": "retention_policy#edit",
      "uri":
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:c4ealc84c7cb42294add3e34da6c7eb87c28de90ac48a80dbfade77759476b79/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
    },
    {
      "type": "retention_policy#delete",
      "uri":
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:c4ealc84c7cb42294add3e34da6c7eb87c28de90ac48a80dbfade77759476b79/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
    }
  ]
}

```

## 5.7.19 Entity retention policies change

Operation executes an entity retention policies change.

### Request

**PUT archives/{archiveId}/entities/{id}/retention/policies.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/retention/policies.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|        |        |                             |
|--------|--------|-----------------------------|
| reason | String | The reason for entity open. |
|--------|--------|-----------------------------|

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityRetentionPolicyEntriesUpdateRequest](#)

### Response

See chapter [EntityRetentionPolicyEntriesUpdateResponse](#)

### Response status

200 - Entity retention policies changed successfully.

400 – Bad request.

401 – Invalid session.

404 - Object does not exist.

500 - Server error.

**Example of the entity retention policy change**Request

PUT [https://apps.imis.eu/scsvc/archives/IARC/entities/tlw\\_CODIQQTSR6to1-y6vbojo6ZFT9bS/retention/policies.json](https://apps.imis.eu/scsvc/archives/IARC/entities/tlw_CODIQQTSR6to1-y6vbojo6ZFT9bS/retention/policies.json)

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Request content

```
{
  "retention_policies": [{
    "id": "lavMancW_MtTbRwpr3p456GYLmDY8SCF",
    "scope": "ALLOW",
    "filter": {
      "classes": false,
      "documents": true,
      "folders": false
    }
  }, {
    "id": "q96Sd-Ms1X4pIZEBeTm6JvzlGyKN3oOk",
    "scope": "ALLOW",
    "filter": {
      "classes": false,
      "documents": true,
      "folders": false
    }
  }
]
}
```

Response

```
{
  "retention_policies": [{
    "id": "lavMancW_MtTbRwpr3p456GYLmDY8SCF",
    "uri": "https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/lavMancW_MtTbRwpr3p456GYLmDY8SCF.json",
    "name": "5 years",
    "description": "Action after 5 years retention",
    "explicit_context": {
      "scope": "ALLOW",
      "filter": {
        "classes": false,
        "folders": false,
        "documents": true
      }
    },
    "effective": true
  },
  {
    "inherited_context": [],
    "links": [{
      "type": "retention_policy#edit",
      "uri": "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:tlw_CODIQQTSR6to1-y6vbojo6ZFT9bS/retention/policies/lavMancW_MtTbRwpr3p456GYLmDY8SCF.json"
    }, {
      "type": "retention_policy#delete",
```

```

        "uri":
"http://beno:9000/StorageConnectorServicesRest/archives/IARC98/entities/I:tIw_CODIQQTSR6to1-
y6vbojo6ZFT9bS/retention/policies/lavMancW_MtTbRwpr3p456GYLmDY8SCF.json"
    }
    ], {
    "id": "q96Sd-Ms1X4pIZEBeTm6JvzlGyKN3oOk",
    "uri": " https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/q96Sd-
Ms1X4pIZEBeTm6JvzlGyKN3oOk.json",
    "name": "3 years",
    "description": "Action after 3 years retention",
    "explicit_context": {
    "scope": "ALLOW",
    "filter": {
    "classes": false,
    "folders": false,
    "documents": true
    },
    "effective": true
    },
    "inherited_context": [],
    "links": [{
    "type": "retention_policy#edit",
    "uri": "
https://apps.imis.eu/scsvc/archives/IARC98/entities/I:tIw_CODIQQTSR6to1-
y6vbojo6ZFT9bS/retention/policies/q96Sd-Ms1X4pIZEBeTm6JvzlGyKN3oOk.json"
    }, {
    "type": "retention_policy#delete",
    "uri": "
https://apps.imis.eu/scsvc/archives/IARC98/entities/I:tIw_CODIQQTSR6to1-
y6vbojo6ZFT9bS/retention/policies/q96Sd-Ms1X4pIZEBeTm6JvzlGyKN3oOk.json"
    }
    ]
    }
}
]
}
}

```

## 5.7.20 Entity retention policy delete

Operation deletes an entity retention policy.

### Request

**DELETE archives/{archiveId}/entities/{id}/retention/policies/{idRetentionPolicy}.json**

and

**DELETE archives/{archiveId}/entities/{entityIdKind}:{id}/retention/policies/  
{idRetentionPolicy}.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|        |        |                             |
|--------|--------|-----------------------------|
| reason | String | The reason for entity open. |
|--------|--------|-----------------------------|

### Request header

Authorization: Bearer [session token]

### Response status

200 - Entity retention policy deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the retention policy delete**

### Request

DELETE https://apps.imis.eu/scsvc/archives/IARC/entities/I:NoDrt8\_b4hXW4IWmfk  
XcJP6iTKNKa\_5j9phT\_bGNRHO/retention/policies/AywTRqKdetY4sSZhfzUNuhA-  
4\_raqO6O1bOIC\_r4lpw.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

Status: 200 – Entity retention policy deleted successfully.

## **5.7.21 Entity disposition holds create**

Operation creates an entity disposition holds.

### Request

**POST archives/{archiveId}/entities/{id}/retention/disposition\_holds.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/retention/disposition\_holds.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|        |        |                             |
|--------|--------|-----------------------------|
| reason | String | The reason for entity open. |
|--------|--------|-----------------------------|

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityRetentionDispositionHoldsRequest](#)

### Response

See chapter [EntityRetentionDispositionHoldsResponse](#)

### Response status

200 – Entity disposition holds created successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the disposition holds create**

### Request

POST [https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/retention/disposition\\_holds.json](https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/retention/disposition_holds.json)

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "disposition_holds" : [{
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4"
  }]
}
```

## Response

```

{
  "disposition_holds" : [{
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC98/disposition_holds/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4.json",
    "name" : "Permanent hold",
    "description" : "Permanent hold for entities",
    "links" : [{
      "type" : "disposition_hold#delete",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/C:C=191/retention/disposition_holds/pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4.json"
    }
  ]
}
]
}

```

### 5.7.22 Entity disposition holds delete

Operation deletes an entity disposition holds.

#### Request

#### DELETE

**archives/{archiveId}/entities/{id}/retention/disposition\_holds/{idDispositionHold}.**

**json**

and

**DELETE archives/{archiveId}/entities/{entityIdKind}:{id}/retention/disposition\_holds/{idDispositionHold}.json**

The set of entityIdKind values: C, E, I.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

### Response status

200 - Entity disposition holds deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity disposition holds delete**

#### Request

```
DELETE https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6i
TKNKa_5j9phT_bGNRHO/retention/disposition_holds/DVAh3WDAb88J_kLWrGGkQ0cn5aadkIP
V7RfvhleeGZY.json
```

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response status

200 - Entity disposition holds deleted successfully.

## **5.7.23 Entity move**

Operation moves an entity under the archive root or selected parent entity.

#### Request

##### **PUT archives/{archiveId}/entities/{id}/move.json**

Entity move under the archive root.

and

##### **PUT archives/{archiveId}/entities/{entityIdKind}:{id}/move.json**

Entity move under the archive root. The set of entityIdKind values: C, E, I.

and

##### **PUT archives/{archiveId}/entities/{id}/move/{parentId}.json**

Entity move under the selected parent entity.

and



**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/move/  
{entityIdKind}:{parentId}.json**

Entity move under the selected parent entity. The set of entityIdKind values: C, E, I.

Request parameters

|        |        |                                  |
|--------|--------|----------------------------------|
| fields | String | Defines the fields in the reply. |
|--------|--------|----------------------------------|

Request header

Authorization: Bearer [session token]

Request content

See chapter [EntityMoveRequest](#)

Response

See chapter [EntityStubResponse](#)

Response status

200 - Entity moved successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity move under the selected parent entity**

Request

PUT https://apps.imis.eu/scsvc/archives/IARC/entities/  
pwiTTaNBqxXPpS\_I5cySkctGbOPZPsrKPjjT-LHsk8Q/move/C:C=212.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

## Request content

```
{
  "reason": "Move under appropriate entity"
}
```

## Response

```
{
  "entity_stub" : {
    "accessed" : "2018-11-03T11:39:58.919+01:00",
    "child_count" : 1,
    "classification_code" : "C=212^C=07",
    "created" : "2018-10-14T09:46:49.945+02:00",
    "creator" : {
      "email" : "jerry.turner@acme.com",
      "first_name" : "Jerry",
      "icon_url" :
        "https://apps.imis.eu/scsv/archives/IARC/directory/jerryturner/avatar",
      "id" : "jerryturner",
      "last_name" : "Turner",
      "uri" : "https://apps.imis.eu/scsv/archives/IARC/directory/jerryturner.json"
    },
    "description" : "1st and 2nd level class",
    "effective_entity_rights" : {
      "read_access" : true,
      "write_access" : true,
      "move_access" : true,
      "delete_access" : true,
      "change_rights" : true,
      "create_references" : true,
      "create_sub_entities" : true,
      "change_security_class" : true,
      "change_status" : true,
      "change_retention" : true
    },
    "external_ids" : [],
    "id" : "pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q",
    "keywords" : [
      "export/import"
    ],
    "links" : [{
      "type" : "entity:acl",
      "uri" :
        "https://apps.imis.eu/scsv/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q/acl.json"
    }, {
      "type" : "entity:audit_log",
      "uri" :
        "https://apps.imis.eu/scsv/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q/audit_log.json"
    }, {
      "type" : "entities",
      "uri" :
        "https://apps.imis.eu/scsv/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q/entities.json"
    }, {
      "type" : "nonrepudiation",
      "uri" :
        "https://apps.imis.eu/scsv/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q/nonrepudiation.json"
    }, {
      "type" : "search",
      "uri" :
        "https://apps.imis.eu/scsv/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHsk8Q/search.json"
    }, {

```

```

        "type" : "parent",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/uOceEHE5pNYzxwpqkcsNi1Kb_OK-
583J0SdBzxYWKBPu/stub.json"
    }, {
        "type" : "entity#edit",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q.json"
    }, {
        "type" : "entity#delete",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q.json"
    }, {
        "type" : "entity:status#edit",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/status.json"
    }, {
        "type" : "entity:security_class#edit",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/security_class.json"
    }, {
        "type" : "entity#move",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/move.json"
    }, {
        "type" : "entity",
        "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q.json"
    }
    ],
    "modified" : "2018-09-05T15:57:34",
    "opened" : "2018-09-05T15:57:34",
    "owner" : {
        "id" : "alexnelson",
        "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson.json"
    },
    "parent_id" : "uOceEHE5pNYzxwpqkcsNi1Kb_OK-583J0SdBzxYWKBPu",
    "permanent" : false,
    "properties" : [{
        "description" : "Non mandatory date of verification",
        "label" : "Verification date",
        "id" : "Verification date",
        "type" : "DATE_TIME",
        "options" : {
            "append_only" : false,
            "included_in_aip" : false,
            "inherited" : true,
            "multi_value" : false,
            "non_empty" : false,
            "pick_list" : false,
            "public" : true,
            "read_only" : false,
            "read_only_after_check_in" : false,
            "read_only_after_create" : false,
            "required" : false,
            "searchable" : true,
            "unique" : false
        },
        "values" : [
            "2018-04-06+02:00"
        ]
    }
    ],
    "public_classification_code" : "212.07",
    "retention" : {

```

```

    "policies" : [{
      "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json",
      "name" : "10 years",
      "description" : "Dispose after 10 years",
      "explicit_context" : {
        "scope" : "ALLOW",
        "filter" : {
          "classes" : true,
          "folders" : true,
          "documents" : true
        },
        "effective" : true
      },
      "inherited_context" : [],
      "links" : [{
        "type" : "retention_policy#edit",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHSk8Q/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
      }, {
        "type" : "retention_policy#delete",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHSk8Q/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
      }
    ], {
      "id" : "C6bEPbl08V0K1UBwi4eUWPFmIXZyb6M8mJXTRVBnHxk",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/retention_policies/C6bEPbl08V0K1UBwi4eUWPFmIXZyb6M8mJXTRVBnHxk.json",
      "name" : "3 years",
      "description" : "Dispose after 3 years",
      "explicit_context" : {
        "scope" : "ALLOW",
        "filter" : {
          "classes" : true,
          "folders" : false,
          "documents" : true
        },
        "effective" : true
      },
      "inherited_context" : [],
      "links" : [{
        "type" : "retention_policy#edit",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHSk8Q/retention/policies/C6bEPbl08V0K1UBwi4eUWPFmIXZyb6M8mJXTRVBnHxk.json"
      }, {
        "type" : "retention_policy#delete",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-LHSk8Q/retention/policies/C6bEPbl08V0K1UBwi4eUWPFmIXZyb6M8mJXTRVBnHxk.json"
      }
    ]
  }, {
    "disposition_holds" : [{
      "id" : "DVAh3WDAb88J_kLWrGGkQ0cn5aadk1PV7RfvhIeeGZY",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/disposition_holds/DVAh3WDAb88J_kLWrGGkQ0cn5aadk1PV7RfvhIeeGZY.json",
      "name" : "Permanent hold",
      "description" : "Description of hold for permanent entitites",
      "links" : [{
        "type" : "disposition_hold#delete",

```

```

    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
    LHSk8Q/retention/disposition_holds/DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhIeeGZY.json"
    }
  ]
}
},
"security_class" : {
  "inherited" : false,
  "value" : "Secret"
},
"significance" : {
  "inherited" : false,
  "value" : "Vital"
},
"status" : {
  "inherited" : false,
  "value" : "Opened"
},
"sub_entity_templates" : [{
  "entity_type" : "CLASS",
  "id" : "Class",
  "label" : "Class",
  "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
}
],
"template" : {
  "entity_type" : "CLASS",
  "id" : "Class",
  "label" : "Class",
  "uri" : "https://apps.imis.eu/scsvc/archives/IARC/templates/Class.json"
},
"title" : "Customer relationship management",
"type" : "CLASS"
}
}

```

### 5.7.24 Save log read

Operation reads an entity save log in JSON or ZIP format.

#### Request

**GET archives/{archiveId}/entities/{id}/save\_log.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/save\_log.json**

and

**GET archives/{archiveId}/entities/{id}/save\_log.zip**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/save\_log.zip**

The set of entityIdKind values: C, E, I,H.

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Response in JSON format

See chapter [SaveLogResponse](#)

Response in ZIP format

The set of save log data.

## 5.7.25 Entities create

The operation creates multiple entities and enables also the transfer of objects from unstructured storage.

Request

**POST archives/{archiveId}/batch/create.json**

and

**POST archives/{archiveId}/entities/{id}/batch/create.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/batch/create.json**

The set of entityIdKind values: C, E, I.

Request parameters

|        |        |  |
|--------|--------|--|
| fields | String | Defines the fields in the reply.   |
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”).   |
| search | String | The search string for the entity under which entities will be created (applies only if no entity identifier is present). |

### Request header

Authorization: Bearer [session token]

Content-Type: application/json

### Request content

See chapter [BatchEntityCreateRequest](#)

### Response

See chapter [EntitiesResponse](#)

### Response status

200 – Entities created successfully.

400 – Bad request.

401 – Invalid session.

500 – Server error.

## **Example of object move**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/acl.json

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Request

```
{
  "entities": [
    {
      "object_transfer": [
        {
          "id": "iu5W_ZNguZya-WTnB-aBEm07xd81ekfi",
          "description": "Data 01"
        },
        {
          "id": "i7nufelPQcJy8MmfV8_cWlX0rApvEW5S",
          "description": "Data 02"
        }
      ]
    },
    {
      "template": "Document",
      "title": "data_00012",
      "owner": "admin",
      "external_ids": [
        "data_00012"
      ]
    }
  ]
}
```

```

    }
  ]
}

```

## Response

```

{
  "size": 1,
  "entities": [
    {
      "accessed": "2019-10-10T09:34:16.736Z",
      "aip": false,
      "categories": [],
      "child_count": 0,
      "classification_code": "C=74^D=000014",
      "created": "2019-10-10T09:34:16.678Z",
      "creator": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "effective_rights": {
        "create_references": true,
        "create_sub_entities": true,
        "change_retention": true,
        "change_rights": true,
        "change_security_class": true,
        "change_status": true,
        "delete_access": true,
        "move_access": true,
        "read_access": true,
        "write_access": true
      },
      "external_ids": [
        "data_00012"
      ],
      "has_draft": false,
      "has_references": false,
      "has_versions": false,
      "id": "o8w_fUP_RoTrsujLYcZMjZq1ZEPePlfH",
      "keywords": [],
      "modified": "2019-10-10T09:34:16.781Z",
      "modified_by": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "opened": "2019-10-10T09:34:16.678Z",
      "owner": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "parent_id": "aEFaUZ5bcaoXjgtICnkBsfZuarr_w4Tl",
      "permanent": false,
      "properties": [
        {
          "id": "Review Trigger",
          "label": "Review date",
          "description": "The review date",

```



```
    "type": "DATE_TIME",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": true,
      "multi_value": false,
      "non_empty": false,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in": false,
      "read_only_after_create": false,
      "required": false,
      "searchable": true,
      "unique": false,
      "versionable": false
    },
    "values": [],
    "inherited": true
  },
  {
    "id": "attr:stringmax",
    "label": "stringmax",
    "description": "",
    "type": "STRINGMAX",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": false,
      "multi_value": false,
      "non_empty": false,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in": false,
      "read_only_after_create": false,
      "required": false,
      "searchable": false,
      "unique": false,
      "versionable": false
    },
    "values": [],
    "inherited": false
  }
],
"public_classification_code": "74/000014",
"security_class": {
  "inherited": true
},
"significance": {
  "inherited": true,
  "value": "Delete"
},
"status": {
  "inherited": true,
  "value": "Opened"
},
"sub_entity_templates": [],
"template": {
  "id": "Document",
  "label": "Document",
  "entity_type": "DOCUMENT"
},
"title": "data_00012",
"type": "DOCUMENT"
}
]
```

## 5.7.26 Entity property public metadata read

Operation retrieves public metadata on an individual entity property.

### Request

**GET archives/{archiveId}/entities/{id}/stub/property/{propertyId}.json**

### Request parameters

|         |        |  |
|---------|--------|--|
| Version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
|---------|--------|--|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [PropertyResponse](#)

### Response status

200 – Property metadata read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

## 5.7.27 Entity property public value read

Operation retrieves the public value of an individual entity property.

### Request

**GET archives/{archiveId}/entities/{id}/stub/property/{propertyId}**

and

**GET archives/{archiveId}/entities/{id}/stub/property/{propertyId}/{index}**

*Note: In requests without the "index" parameter, the default value is 0.*

Request parameters

|         |        |  |
|---------|--------|--|
| Version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
|---------|--------|--|

Request header

Authorization: Bearer [session token]

Response

Entity property value.

Response status

200 – Property value read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

## 5.7.28 Entity property metadata read

Operation retrieves metadata on an individual entity property.

Request

**GET archives/{archiveId}/entities/{id}/property/{propertyId}.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}.json**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |        |  |
|---------|--------|--|
| Version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| Reason  | String | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Response

See chapter [PropertyResponse](#)

Response status

200 – Property metadata read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

**5.7.29 Entity property value read**

Operation retrieves the value of an individual entity property.

Request

**GET archives/{archiveId}/entities/{id}/property/{propertyId}**

and

**GET archives/{archiveId}/entities/{id}/property/{propertyId}/{index}**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}**

The set of entityIdKind values: C, E, I, H.

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: C, E, I, H.

*Note: In requests without the 'index' parameter, the default value is 0.*

Request parameters

|         |        |  |
|---------|--------|--|
| Version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| Reason  | String | The reason for entity open (when "entityIdKind" value is not "H"). |

Request header

Authorization: Bearer [session token]

Response

Entity property value.

Response status

200 – Property value read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

**5.7.30 Entity property value create**

Operation adds the value of an individual entity property to the end of the collection of values.

Request

**POST archives/{archiveId}/entities/{id}/property/{propertyId}**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |        |  |
|---------|--------|--|
| version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Content-Type: [property type]

Request content

Property value.

Response

See chapter [PropertyResponse](#)

Response status

200 – Property value saved successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

**5.7.31 Entity property value change**

Operation changes the value of an individual entity property at a given position within the collection of values.

Request

**PUT archives/{archiveId}/entities/{id}/property/{propertyId}/{index}**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |        |  |
|---------|--------|--|
| version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Content-Type: [property type]

Request header

Property value.

Response

See chapter [PropertyResponse](#)

Response status

200 – Property value saved successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

**5.7.32 Entity property value delete**

Operation deletes the value of an individual entity property at a given position within the collection of values.

Request

**DELETE archives/{archiveId}/entities/{id}/property/{propertyId}/{index}**

and

**DELETE archives/{archiveId}/entities/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |        |  |
|---------|--------|--|
| version | String | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Response status

200 – Property value deleted successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 – Server error.

## 5.8 Access right

IMiS®/ARChive Server uses Access Control Lists (ACL) to check user access rights.

A user with the right to define access rights for an entity (Change permissions) can assign an Access Control List to a user or a user group access rights to an entity and special access rights to an entity. An authorized user can explicitly set Allow or Deny for each group of rights. These values are valid for an individual right within the group and can also be set for a limited period of time. Operation with entities is described below.

### 5.8.1 Entity access right read

Operation reads directory entity access right on the entity.

#### Request

**GET archives/{archiveId}/entities/{id}/acl.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/acl.json**

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [EntityACLResponse](#)



### Response status

200 - Entity access right read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of entity access rights read**

#### Request

GET <https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/acl.json>

#### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

#### Response

```
{
  "acl" : {
    "entries" : [{
      "directory_entity" : {
        "email" : "alex.nelson@acme.com",
        "first_name" : "Grace",
        "icon_url" :
"https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson/avatar",
        "id" : "alexnelson",
        "last_name" : "Nelson",
        "type" : "USER"
      },
      "id" : "AAAAAVR1c3RuYQ",
      "effective_rights" : {
        "read_access" : true,
        "write_access" : false,
        "move_access" : false,
        "delete_access" : false,
        "change_rights" : true,
        "create_references" : false,
        "create_sub_entities" : false,
        "change_security_class" : false,
        "change_status" : true,
        "change_retention" : false,
      },
      "inherited_allow_rights" : {
        "read_access" : true,
        "write_access" : false,
        "enabled_for_subtree" : true,
        "enabled_for_this" : true,
        "move_access" : false,
        "delete_access" : false,
        "change_rights" : true,
        "create_references" : false,
        "create_sub_entities" : false,
        "change_security_class" : false,
        "change_status" : true,
        "change_retention" : false,
      }
    ]
  },
}
```

```
        "subject" : "alexnelson",
        "type" : "DIRECTORY"
      },
    ],
    "property_entries" : [{
      "property_id" : "Validation date",
      "entries" : [{
        "directory_entity" : {
          "email" : "keira.clay@acme.com",
          "first_name" : "Keira",
          "icon_url" :
"https://apps.imis.eu/scsvc/archives/IARC/directory/keiraclay/avatar",
          "id" : "keiraclay",
          "last_name" : "Clay",
          "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/keiraclay.json",
          "type" : "USER"
        },
        "effective_rights" : {
          "create_access" : false,
          "delete_access" : false,
          "read_access" : false,
          "write_access" : false
        }
      },
      {
        "id" : "AAAAAWFsZXM",
        "inherited_deny_rights" : {
          "create_access" : false,
          "delete_access" : false,
          "enabled_for_subtree" : true
          "enabled_for_this" : true
          "read_access" : true,
          "write_access" : true
        }
      }
    ],
    "subject" : "keiraclay",
    "type" : "DIRECTORY"
  }
]
}
```

## 5.8.2 Entity access rights read for each directory entity

Operation reads directory entity access rights for each entity.

### Request

**GET archives/{archiveId}/entities/{id}/access.json**

and

**GET archives/{archiveId}/entities/{idType}:{id}/access.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|         |        |  |
|---------|--------|--|
| subject | String | The unique label of directory entity (optional). |
|---------|--------|--|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [AccessResponse](#)

### Response status

200 – Access rights read successfully.

401 – Invalid session.

404 – Object does not exist.

500 – Server error.

## **Example of current entity access rights read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/5QU235hDXyEJOuJ8\_Z\_XY-DWTaHK7cpR/access.json?subject=jturner

### Response

```
{
  "rights" : {
    "change_retention" : false,
    "change_rights" : false,
    "change_security_class" : false,
    "change_status" : false,
    "create_references" : false,
    "create_sub_entities" : false,
    "delete_access" : false,
    "move_access" : true,
    "read_access" : true,
    "write_access" : true
  }
}
```

### 5.8.3 Entity access rights create

Operation creates an entity access rights.

#### Request

**POST** `archives/{archiveId}/entities/{id}/acl.json`

and

**POST** `archives/{archiveId}/entities/{entityIdKind}:{id}/acl.json`

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

#### Request content

See chapter [EntityACLRequest](#)

#### Response

See chapter [EntityACLResponse](#)

#### Response status

200 – Entity access right created successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of adding an access right with a timeout**RequestPOST <https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/acl.json>Request content

```
{
  "acl" : {
    "entries" : [{
      "subject" : "Support group",
      "explicit_allow_rights" : {
        "valid_from" : "2018-08-02T12:12:00.000+06:00",
        "valid_to" : "2018-08-20T12:12:00.000+02:00",
        "read_access" : true,
        "change_status" : true
      },
      "explicit_deny_rights" : {
        "valid_from" : "2018-08-02T12:12:00.000+03:00",
        "valid_to" : "2018-08-20T12:12:00.000Z",
        "write_access" : true
      }
    }
  ]
}
```

Response

```
{
  "acl" : {
    "entries" : [{
      "id": "AAAAAWFsZXm",
      "subject": "Support group",
      "type": "DIRECTORY",
      "directory_entity" : {
        "id" : "Support group",
        "type": "GROUP"
      },
      "effective_rights" : {
        "read_access" : false,
        "write_access" : false,
        "move_access" : false,
        "delete_access" : false,
        "change_rights" : false,
        "create_references" : false,
        "create_sub_entities" : false,
        "change_security_class" : false,
        "change_status" : false,
        "change_retention" : false,
      },
      "explicit_allow_rights" : {
        "read_access" : true,
        "write_access" : false,
        "enabled_for_subtree" : true,
        "enabled_for_this" : true,
        "move_access" : false,
        "delete_access" : false,
        "change_rights" : false,
        "create_references" : false,
        "create_sub_entities" : false,
        "change_security_class" : false,
        "change_status" : true,
      }
    }
  ]
}
```

```

    "change_retention" : false,
    "valid_from" : "2018-08-02T08:12:00.000+02:00",
    "valid_to" : "2019-08-20T12:12:00.000+02:00"
  },
  "explicit_deny_rights" : {
    "read_access" : false,
    "write_access" : true,
    "enabled_for_subtree" : true,
    "enabled_for_this" : true,
    "move_access" : false,
    "delete_access" : false,
    "change_rights" : false,
    "create_references" : false,
    "create_sub_entities" : false,
    "change_security_class" : false,
    "change_status" : false,
    "change_retention" : false,
    "valid_from" : "2018-08-02T12:12:00.000+02:00",
    "valid_to" : "2019-08-20T12:12:00.000+02:00"
  }
}
}
}
}
}

```

### 5.8.4 Entity access right change

Operation changes an entity explicit access right.

#### Request

**PUT archives/{archiveId}/entities/{id}/acl/{entityId}.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/acl/{entityId}.json**

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

#### Request content

See chapter [EntityACLEntryRequest](#)

## Response

See chapter [EntityACLEntryResponse](#)

## Response status

200 – Entity access right updated successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the entity access right update**

### Request

<https://apps.imis.eu/scsvc/archives/IARC/entities/C:C=191/acl/AAAAAWJlbmphbWlu.json>

### Request content

```
{
  "acl_entry" : {
    "explicit_allow_rights" : {
      "valid_from" : "2016-08-02T12:12:00+02:00",
      "valid_to" : "2016-11-01T12:12:00+02:00",
      "change_status " : true
    },
    "explicit_deny_rights" : {
      "delete_access" : true
    }
  }
}
```

### Response

```
{
  "acl_entry" : {
    "id" : "AAAAAWJlbmphbWlu",
    "subject" : "Support group",
    "type" : "DIRECTORY",
    "directory_entity" : {
      "id" : "Support group",
      "type" : "GROUP"
    },
    "explicit_allow_rights" : {
      "read_access" : true,
      "write_access" : false,
      "enabled_for_subtree" : true,
      "enabled_for_this" : true,
      "move_access" : false,
      "delete_access" : false,
      "change_rights" : false,
      "create_references" : false,
      "create_sub_entities" : false,
      "change_security_class" : false,
      "change_status" : true,
      "change_retention" : false,

```

```

    "valid_from" : "2016-08-02T12:12:00.000+02:00",
    "valid_to" : "2016-11-01T11:12:00.000+01:00",
  },
  "explicit_deny_rights" : {
    "read_access" : false,
    "write_access" : true,
    "enabled_for_subtree" : true,
    "enabled_for_this" : true,
    "move_access" : false,
    "delete_access" : true,
    "change_rights" : false,
    "create_references" : false,
    "create_sub_entities" : false,
    "change_security_class" : false,
    "change_status" : false,
    "change_retention" : false,
    "valid_from" : "2016-08-02T12:12:00.000+02:00",
    "valid_to" : "2016-08-20T14:12:00.000+02:00"
  }
}
}
}

```

### 5.8.5 Entity property access right change

Operation changes an entity property explicit access right.

#### Request

**PUT archives/{archiveId}/entities/{id}/acl/{propertyName}/{entityId}.json**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/acl/{propertyName}/  
{entityId}.json**

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

#### Request content

See chapter [EntityPropertyACLEntryRequest](#)

#### Response

See chapter [EntityPropertyACLEntryResponse](#)



### Response status

200 – Entity property access right changed successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity property access right update**

#### Request

PUT

<https://apps.imis.eu/scsvc/archives/IARC/entities/H:moCqRsJT9v3FgOkN/acl/AttrBool/AAAAAWJlbmphbWlu.json>

#### Request content

```
{
  "property_acl_entry" : {
    "explicit_deny_rights" : {
      "valid_from" : "2016-08-02T12:12:00+02:00",
      "valid_to" : "2016-11-01T12:12:00+02:00",
      "read_access" : true,
      "delete_access" : true
    }
  }
}
```

#### Response

```
{
  "property_acl_entry" : {
    "id" : "AAAAAWJlbmphbWlu",
    "subject" : "Support group",
    "type" : "DIRECTORY",
    "directory_entry" : {
      "id" : "Support group",
      "type" : "GROUP"
    },
    "effective_rights" : {
      "create_access" : false,
      "delete_access" : false,
      "enabled_for_subtree" : true,
      "enabled_for_this" : true,
      "read_access" : true,
      "write_access" : false
    },
    "explicit_deny_rights" : {
      "create_access" : false,
      "delete_access" : true,
      "enabled_for_subtree" : true,
      "enabled_for_this" : true,
      "read_access" : true,
      "write_access" : false,
      "valid_from" : "2016-08-02T12:12:00.000+02:00",
      "valid_to" : "2016-11-01T12:12:00.000+01:00"
    }
  }
}
```

```

}
}
}

```

## 5.8.6 Entity access right delete

Operation deletes an entity access right.

### Request

**DELETE** archives/{archiveId}/entities/{id}/acl/{entityId}.json

and

**DELETE** archives/{archiveId}/entities/{entityIdKind}:{id}/acl/{entityId}.json

The set of entityIdKind values: C, E, I, H.

### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity access right deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity access right delete**

#### Request

DELETE

https://apps.imis.eu/scsvc/archives/IARC/entities/H:moCqRsJT9v3FgOkN/acl/AAAAAWJlbmp  
hbWlu.json

#### Response status

200 – Entity access right deleted successfully.

## 5.8.7 Entity property access right delete

Operation deletes an entity property access right.

### Request

**DELETE** archives/{archiveId}/entities/{id}/acl/{propertyName}/{entityId}.json

and

**DELETE** archives/{archiveId}/entities/{entityIdKind}:{id}/acl/{propertyName}/  
**{entityId}.json**

The set of entityIdKind values: C, E, I, H.

### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity property access right deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## Example of the entity property access right delete

### Request

DELETE https://apps.imis.eu/scsvc/archives/IARC/entities/cbc80d24496c1cff9ac4cc1031  
cc7bcfb2d79832c0fdeebcd41e1f3a0dbacc7b/acl/AttrBool/keiraclay.json

### Response status

200 – Entity property access right deleted successfully.

## 5.9 Template

Templates prescribe a metadata scheme. Each template contains embedded and previously defined system attributes required for the correct operations of IMiS®/ARChive Server and cannot be changed. All other attributes can be added to or deleted from templates by the administrator, until the first entity has been created.

The operations to work with templates are described in more detail below.

### 5.9.1 Templates read

Operation reads templates.

#### Request

**GET archives/{archiveId}/templates.json**

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [TemplatesResponse](#)

#### Response status

200 – Templates read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

#### **Example of the templates read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/templates.json

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

## Response

```

{
  "templates": [
    {
      "id": "Case",
      "label": "Case",
      "description": "Folder/Case entity",
      "entity_count": 125,
      "entity_type": "FOLDER",
      "properties": [
        {
          "id": "Revision date",
          "description": "Date/time of a revision",
          "type": "DATE_TIME",
          "options": {
            "append_only": false,
            "included_in_aip": false,
            "inherited": true,
            "multi_value": false,
            "non_empty": false,
            "pick_list": false,
            "public": true,
            "read_only": false,
            "read_only_after_check_in" : false,
            "read_only_after_create" : false,
            "required": false,
            "searchable": true,
            "unique": false
          }
        }
      ],
      "physical_properties": true,
      "email_properties": false,
      "versionable": false,
    },
    {
      "id": "Class",
      "description": "Class entity",
      "entity_count": 94,
      "entity_type": "CLASS",
      "properties": [
        {
          "id": "Revision date",
          "description": "Date/time of a revision",
          "type": "DATE_TIME",
          "options": {
            "append_only": false,
            "included_in_aip": false,
            "inherited": true,
            "multi_value": false,
            "non_empty": false,
            "pick_list": false,
            "public": true,
            "read_only": false,
            "read_only_after_check_in" : false,
            "read_only_after_create" : false,
            "required": false,
            "searchable": true,
            "unique": false
          }
        }
      ],
      "physical_properties": false,
      "email_properties": false,
      "versionable": false,
    },
    {
      "id": "ClassCustom",
      "description": "",
      "entity_count": 0,
      "entity_type": "CLASS",
      "properties": [],
      "physical_properties": false,
    }
  ]
}

```

```

    "email_properties": false,
    "versionable": false,
  }, {
    "content_options" : [{
      "container_id" : "String",
      "label" : "String",
      "description" : "String",
      "append_only" : false,
      "included_in_aip" : false,
      "multi_value" : false,
      "public" : false,
      "read_only" : false,
      "read_only_after_check_in" : false,
      "read_only_after_create " : false,
      "required " : false,
      "searchable " : false,
      "versionable" : false
    }],
    "id": "Document",
    "description": "Standalone document entity",
    "entity_count": 42,
    "entity_type": "DOCUMENT",
    "properties": [{
      "id": "Quality assurance",
      "description": "Quality assurance attribute",
      "type": "INT32",
      "options": {
        "append_only": false,
        "included_in_aip": true,
        "inherited": true,
        "multi_value": true,
        "non_empty": false,
        "pick_list": false,
        "public": false,
        "read_only": false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required": false,
        "searchable": true,
        "unique": false
      }
    }],
    "id": "Production",
    "description": "Production attribute",
    "type": "STRINGMAX",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": false,
      "multi_value": false,
      "non_empty": false,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in" : false,
      "read_only_after_create" : false,
      "required": false,
      "searchable": true,
      "unique": false
    }
  }, {
    "id": "Review",
    "description": "Date/time of the review",
    "type": "DATE_TIME",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": true,
      "multi_value": true,
      "non_empty": false,
      "pick_list": false,

```

```

        "public": true,
        "read_only": false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required": false,
        "searchable": true,
        "unique": false
    }
}
],
"physical_properties": true,
"email_properties": false,
"versionable": true,
}, {
  "content_options" : [{
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,
    "public" : false,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create " : false,
    "required " : false,
    "searchable " : false,
    "versionable" : false
  }],
  "id": "DocumentCC",
  "description": "Document with custom content attributes",
  "entity_count": 25,
  "entity_type": "DOCUMENT",
  "properties": [],
  "physical_properties": true,
  "email_properties": false,
  "versionable": false,
}, {
  "content_options" : [{
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,
    "public" : false,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create " : false,
    "required " : false,
    "searchable " : false,
    "versionable" : false
  }],
  "id": "Email",
  "label": "Email",
  "description": "Standalone e-mail entity",
  "entity_count": 13,
  "entity_type": "DOCUMENT",
  "properties": [{
    "id": "Review",
    "description": "Date/time of the review",
    "type": "DATE_TIME",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": true,
      "multi_value": false,
      "non_empty": false,
      "pick_list": false,
      "public": true,
      "read_only": false,

```

```

        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required": false,
        "searchable": true,
        "unique": false
    }
}
],
"physical_properties": true,
"email_properties": true,
"versionable": false,
}, {
"content_options" : [{
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,
    "public" : false,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create " : false,
    "required " : false,
    "searchable " : false,
    "versionable" : false
}],
"id": "FiledDocument",
"description": "Document filed into a folder/case entity",
"entity_count": 11,
"entity_type": "DOCUMENT",
"properties": [{
    "id": "Public custom attribute",
    "description": "",
    "type": "STRING50",
    "options": {
        "append_only": false,
        "included_in_aip": true,
        "inherited": false,
        "multi_value": true,
        "non_empty": false,
        "pick_list": false,
        "public": true,
        "read_only": false,
        "read_only_after_check_in" : false,
        "read_only_after_create" : false,
        "required": false,
        "searchable": true,
        "unique": false
    }
}
]
},
"physical_properties": true,
"email_properties": false,
"versionable": false,
}, {
"content_options" : [{
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,
    "public" : false,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create " : false,
    "required " : false,
    "searchable " : false,
    "versionable" : false
}],
}],

```



```
"id": "FiledEmail",
"description": "E-mail filed into a folder/case entity",
"entity_count": 26,
"entity_type": "DOCUMENT",
"properties": [],
"physical_properties": true,
"email_properties": true,
"versionable": false,
}, {
  "content_options" : [{
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,
    "public" : false,
    "read_only" : false,
    "read_only_after_check_in" : false,
    "read_only_after_create " : false,
    "required " : false,
    "searchable " : false,
    "versionable" : false
  }],
  "id": "Invoice",
  "label": "Invoice",
  "description": "Invoice document",
  "entity_count": 0,
  "entity_type": "DOCUMENT",
  "properties": [],
  "physical_properties": true,
  "email_properties": false,
  "versionable": false,
}
]
```

## 5.9.2 Template read

Operation reads template.

### Request

**GET archives/{archiveId}/templates/{id}.json**

### Request header

Authorization: Bearer [session token]

### Response

See chapter [TemplateResponse](#)

### Response status

200 – Template read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the template Class read**

#### Request

GET <https://apps.imis.eu/scsvs/archives/IARC/templates/Class.json>

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

```
{
  "template": {
    "id": "Class",
    "label": "Class",
    "description": "Class entity",
    "entity_count": 401,
    "entity_type": "CLASS",
    "properties": [
      {
        "id": "Review Trigger",
        "label": "Review date",
        "description": "The review date",
        "type": "DATE_TIME",
        "options": {
          "append_only": false,
          "included_in_aip": false,
          "inherited": true,
          "multi_value": false,
          "non_empty": false,
          "pick_list": false,
          "public": true,
          "read_only": false,
          "read_only_after_check_in": false,
          "read_only_after_create": false,
          "required": false,
          "searchable": true,
          "unique": false,
          "versionable": false
        }
      }
    ],
    {
      "id": "acl:Editor",
      "label": "Editors",
      "description": "List of directory entities which can modify the entity",
      "type": "DIRECTORY_ENTITY",
      "options": {
```

```

    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": true,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
{
  "id": "acl:NoAccess",
  "label": "No Access",
  "description": "List of directory entites which have no access to the entity",
  "type": "DIRECTORY_ENTITY",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": true,
    "multi_value": true,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
{
  "id": "acl:Reader",
  "label": "Readers",
  "description": "List of directory entities which can read the entity",
  "type": "DIRECTORY_ENTITY",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": true,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
}
],
"physical_properties": false,
"email_properties": false,
"content_options": [
  {
    "container_id" : "String",
    "label" : "String",
    "description" : "String",
    "append_only" : false,
    "included_in_aip" : false,
    "multi_value" : false,

```

```
"public" : false,
"read_only" : false,
"read_only_after_check_in" : false,
"read_only_after_create " : false,
"required " : false,
"searchable " : false,
"versionable" : false
}
],
"versionable": false,
"system_properties": {
  "title": {
    "id": "sys:Title",
    "label": "Title",
    "description": "Entity title",
    "type": "STRING200",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": false,
      "multi_value": false,
      "non_empty": true,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in": false,
      "read_only_after_create": false,
      "required": true,
      "searchable": true,
      "unique": false,
      "versionable": false
    }
  },
  "description": {
    "id": "sys:Description",
    "label": "Description",
    "description": "Entity brief description",
    "type": "STRING200",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": false,
      "multi_value": false,
      "non_empty": false,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in": false,
      "read_only_after_create": false,
      "required": false,
      "searchable": false,
      "unique": false,
      "versionable": false
    }
  },
  "keywords": {
    "id": "sys:Keywords",
    "label": "Keywords",
    "description": "Entity keywords",
    "type": "STRING30",
    "options": {
      "append_only": false,
      "included_in_aip": false,
      "inherited": false,
      "multi_value": true,
      "non_empty": true,
      "pick_list": false,
      "public": true,
      "read_only": false,
      "read_only_after_check_in": false,
      "read_only_after_create": false,
```

```
        "required": false,
        "searchable": true,
        "unique": false,
        "versionable": false
    }
},
"status": {
    "id": "sys:Status",
    "label": "Status",
    "description": "Entity status",
    "type": "UINT32",
    "options": {
        "append_only": false,
        "included_in_aip": false,
        "inherited": true,
        "multi_value": false,
        "non_empty": false,
        "pick_list": true,
        "public": true,
        "read_only": false,
        "read_only_after_check_in": false,
        "read_only_after_create": true,
        "required": true,
        "searchable": true,
        "unique": false,
        "versionable": false
    },
    "values": [
        "Opened",
        "Closed"
    ]
},
"security_class": {
    "id": "sys:SecurityClass",
    "label": "Security Class",
    "description": "Entity Security Class",
    "type": "UINT32",
    "options": {
        "append_only": false,
        "included_in_aip": false,
        "inherited": true,
        "multi_value": false,
        "non_empty": false,
        "pick_list": true,
        "public": true,
        "read_only": false,
        "read_only_after_check_in": false,
        "read_only_after_create": true,
        "required": false,
        "searchable": true,
        "unique": false,
        "versionable": false
    },
    "values": [
        "Unspecified",
        "Top Secret",
        "Secret",
        "Confidential",
        "Restricted",
        "Unclassified"
    ]
},
"owner": {
    "id": "sys:Owner",
    "label": "Owner",
    "description": "Entity custodian",
    "type": "DIRECTORY_ENTITY",
    "options": {
        "append_only": false,
        "included_in_aip": false,
        "inherited": false,
```

```

    "multi_value": false,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
"external_ids": {
  "id": "sys:ExternalIds",
  "label": "External Identifier",
  "description": "Entity unique external ids",
  "type": "STRING100",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": true,
    "non_empty": true,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": true,
    "versionable": false
  }
},
"opened": {
  "id": "sys:Opened",
  "label": "Opened",
  "description": "Date and time when entity's status was set to 'Opened'",
  "type": "DATE_TIME",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": false,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
"closed": {
  "id": "sys:Closed",
  "label": "Closed",
  "description": "Date and time when entity's status was set to 'Closed'",
  "type": "DATE_TIME",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": true,
    "multi_value": false,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": false,

```

```

    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
"creator": {
  "id": "sys:Creator",
  "label": "Creator",
  "description": "Entity creator",
  "type": "DIRECTORY_ENTITY",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": false,
    "non_empty": false,
    "pick_list": false,
    "public": true,
    "read_only": true,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": true,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
"significance": {
  "id": "sys:Significance",
  "label": "Significance",
  "description": "Entity significance state",
  "type": "UINT32",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": true,
    "multi_value": false,
    "non_empty": false,
    "pick_list": true,
    "public": true,
    "read_only": false,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
},
"values": [
  "Vital",
  "Permanent",
  "Retain",
  "Delete"
]
},
"modified by": {
  "id": "sys:ModifiedBy",
  "label": "Modified By",
  "description": "Entity's last modifier",
  "type": "DIRECTORY_ENTITY",
  "options": {
    "append_only": false,
    "included_in_aip": false,
    "inherited": false,
    "multi_value": false,
    "non_empty": false,
    "pick_list": false,
    "public": true,

```

```

    "read_only": true,
    "read_only_after_check_in": false,
    "read_only_after_create": false,
    "required": false,
    "searchable": true,
    "unique": false,
    "versionable": false
  }
}
}
}
}

```

## 5.10 Directory

The directory contains a list of users and user groups of the IMiS®/ARChive Server with associated user, authentication, role and group membership data.

Operation with the directory is described below.

### 5.10.1 Directory entities read

Operation reads directory entities.

Request

**GET archives/{archiveId}/directory.json**

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

Request parameters

|            |        |  |
|------------|--------|--|
| page_start | Int    | The beginning of the page.   |
| page_size  | Int    | The size of the page.  |
| q          | String | Search query.  |
| sort       | String | The field used for sorting.<br>The set of values:<br>- id.   |
| sort_order | String | The sort order of the collection (optional). Valid only if the "sort" parameter exists.<br>The set of values:<br>- asc: Ascending (default value)<br>- desc: Descending. |
| fields     | String | Defines the fields in the reply.   |



|         |         |  |
|---------|---------|--|
| enabled | Boolean | Defines whether the response contains directory entities with the specified value "enabled". |
| deleted | Boolean | Defines whether the response contains directory entities with the specified value "deleted". |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DirectoryEntitiesResponse](#)

### Response status

200 – Directory entities read successfully.

401 – Invalid session.

500 - Server error.

## **Example of the directory entities read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/directory.json?page\_size=2&page\_start=0

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Response

```
{
  "directory_entities" : [{
    "deleted" : false,
    "description" : "IMiS software user group ",
    "email" : "imis.usergroup@imis.eu",
    "enabled" : true,
    "first_name" : "IMiS",
    "id" : "IMiS user group",
    "last_name" : "user group",
    "security_class_level" : "Unspecified",
    "type" : "GROUP"
  }, {
    "deleted" : false,
    "description" : "Sessions authenticated by legacy protocols",
    "email" : "",
    "enabled" : true,
    "first_name" : "",
    "id" : "Anonymous",
    "last_name" : "Anonymous",
    "security_class_level" : "Unspecified",
```

```

    "type" : "USER"
  }
],
"page_size": 2,
"page_start": 0,
"size": 200
}

```

## 5.10.2 Directory entity read

Operation reads directory entity.

### Request

#### **GET archives/{archiveId}/directory/{id}.json**

### Request parameters

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.          |
| id        | String | The unique identifier of the directory entity. |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DirectoryEntityResponse](#)

### Response status

200 – Directory entity read successfully.

401 – Invalid session

404 – Object does not exist.

500 - Server error.

**Example of the directory entity read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/directory/IMiS%20user%20group.json

Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

Response

```
{
  "directory_entity" : {
    "deleted" : false,
    "description" : "IMiS software user group ",
    "email" : "imis.usergroup@imis.eu",
    "enabled" : true,
    "first_name" : "IMiS",
    "id" : "IMiS user group",
    "last_name" : "user group",
    "security_class_level" : "Unspecified",
    "type" : "GROUP"
  }
}
```

**5.10.3 Directory entity members read**

Operation reads members of the selected directory entity group.

Request

**GET archives/{archiveId}/directory/{id}/members.json**

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.            |
| id        | String | The unique identifier of the directory entities. |

Request parameters

|            |        |  |
|------------|--------|--|
| page_start | Int    | The beginning of the page.                                 |
| page_size  | Int    | The size of the page.                                      |
| q          | String | Search query.  |
| sort       | String | The field used for sorting.<br>The set of values:<br>- id. |

|            |         |   |
|------------|---------|---|
| sort_order | String  | The sort order of the collection (optional). Valid only if the “sort” parameter exists.<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending. |
| fields     | String  | Defines the fields in the reply.  |
| enabled    | Boolean | Defines whether the response contains directory entities with the specified value “enabled”.  |
| deleted    | Boolean | Defines whether the response contains directory entities with the specified value “deleted”.  |

Request header

Authorization: Bearer [session token]

Response

See chapter [DirectoryEntitiesResponse](#)

Response status

200 – Directory entity members read successfully.

401 – Invalid session

404 – Object does not exist.

500 - Server error.

**Example of the directory entity “IMiS user group” members read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/directory/IMiS%20user%20group/members.json?page\_size=2&page\_start=0

Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

## Response

```
{
  "directory_entities" : [{
    "deleted" : false,
    "description" : "Human Resources",
    "email" : "john.smith@acme.com",
    "enabled" : true,
    "first_name" : "John",
    "id" : "johnsmith",
    "last_name" : "Smith",
    "security_class_level" : "Unspecified",
    "type" : "USER"
  }, {
    "deleted" : false,
    "description" : "ICT support",
    "email" : "ron.salazar@acme.com",
    "enabled" : true,
    "first_name" : "Ron",
    "id" : "ronsalazar",
    "last_name" : "Salazar",
    "security_class_level" : "Unspecified",
    "type" : "USER"
  }
  ],
  "page_size": 2,
  "page_start": 0
  "size": 2
}
```

## 5.10.4 Current user read

Operation reads directory entity information of current user.

### Request

#### GET archives/{archiveId}/account.json

#### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

#### Request header

Authorization: Bearer [session token]

### Response

See chapter [AccountResponse](#)

### Response status

200 – Directory entity members read successfully.

401 – Invalid session

500 - Server error.

### **Example of the current user read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/account.json

#### Request header

Authorization: Bearer YdjRVVfvhhMJOZQSPsQ8OyBQdNHdbtKHEn

#### Response

```
{
  "directory_entity": {
    "id": "admin",
    "first_name": "",
    "last_name": "Administrator",
    "email": "admin@acme.com",
    "description": "Archive administrator",
    "security_class_level": "Top Secret",
    "type": "USER",
    "deleted": false,
    "enabled": true,
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/account/avatar",
    "description_editable": true,
    "email_editable": true,
    "first_name_editable": true,
    "icon_editable": true,
    "last_name_editable": true
  }
}
```

## **5.10.5 Password change**

Operation changes the password of current user.

#### Request

**PUT archives/{archiveId}/account/password.json**

### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [PasswordChangeRequest](#)

### Response status

200 – Password changed successfully.

400 – Bad request.

401 – Invalid session

500 - Server error.

## **Example of the password change**

### Request

PUT https://apps.imis.eu/scsvc/archives/IARC/account/password.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "old_password": "xxxxxx",
  "new_password": "yyyyyy"
}
```

### Response status

200 – Password changed successfully.

## 5.10.6 User profile change

Operation changes properties of the current user.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### Request

#### **PUT archives/{archiveld}/account.json**

### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveld | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [AccountUpdateRequest](#)

### Response

See chapter [AccountResponse](#)

### Response status

200 – User profile changed successfully.

400 – Bad request.

401 – Invalid session

500 - Server error.



### 5.10.7 Avatar read

Operation reads avatar of the directory entity or the current user.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

#### Request

**GET archives/{archiveId}/directory/{id}/avatar**

or

**GET archives/{archiveId}/account/avatar**

#### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

#### Request header

Authorization: Bearer [session token]

#### Response

The set of avatar data.

#### Response status

200 – Avatar read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### 5.10.8 Avatar change

Operation changes avatar of the current user.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

#### Request

**POST archives/{archiveId}/account/avatar**

Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveId | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

Request header

Authorization: Bearer [session token]

Content-Type: Content type

Request content

The set of avatar data.

Response status

200 – Avatar changed successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

**5.10.9 User content read**

The operation retrieves the user content of the current user with a unique content identifier.

Compatibility: IMiS®/ARChive Server 10.1 or higher.

Request**GET archives/{archiveId}/account/data/{dataId}**Request parameters

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.      |
| dataId    | String | The unique identifier of the user content. |

Request header

Authorization: Bearer [session token]

Response

The set of user content data.

Response status

200 – User content read successfully.

401 – Invalid session.

500 - Server error.

**5.10.10 User content create and update**

The operation creates or changes the user content of the current user with a unique content identifier. Compatibility: IMiS®/ARChive Server 10.1 or higher.

Request

**POST archives/{archiveId}/account/data/{dataId}**

Request parameters

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.      |
| dataId    | String | The unique identifier of the user content. |

Request header

Authorization: Bearer [session token]

Content-Type: Content type

Request content

The set of user content data.

Response status

200 – User content update successfully.

401 – Invalid session.

500 - Server error.

## 5.10.11 User content delete

The operation deletes the user content of the current user with a unique content identifier.

Compatibility: IMiS®/ARChive Server 10.1 or higher.

### Request

#### **DELETE archives/{archiveld}/account/data/{datald}**

### Request parameters

|           |        |  |
|-----------|--------|--|
| archiveld | String | The unique identifier of the archive.      |
| datald    | String | The unique identifier of the user content. |

### Request header

Authorization: Bearer [session token]

### Response status

200 – User content deleted successfully.

401 – Invalid session.

500 - Server error.

## 5.10.12 Adding a link to an external identity of the user profile

The operation adds an external identity to the current user.

Compatibility: IMiS®/ARChive Server 10.3 or higher.

### Request

#### **PUT archives/{archiveld}/account/identity/link.json**

### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveld | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token]

Request content

See chapter [AccountIdentityLinkRequest](#)

Response

See chapter [AccountResponse](#)

### 5.10.13 Deleting a link to an external identity of the user profile

The operation deletes the external identity of the current user.

Compatibility: IMiS®/ARChive Server 10.3 or higher.

Request

**PUT archives/{archiveld}/account/identity/unlink.json**

Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveld | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

Request header

Authorization: Bearer [session token]

Request content

See chapter [AccountIdentityUnlinkRequest](#)

Response

See chapter [AccountResponse](#)

Response status

200 – User content deleted successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

## 5.11 Retention

Every entity in the classification scheme (except for the document in the folders) has at least one specified effective retention period, which determines the timeframe of the entity's retention.

By establishing links between entities and retention policies we control effective retention periods, and indirectly the preparation of the review process.

The disposition hold has a special role in the preparation of the review process as it enables the elimination of all entities with links to at least one disposition hold from the review process. Operation with retention periods and disposition holds are described below.

### 5.11.1 Retention policies read

Operation reads entity retention policies.

#### Request

#### **GET archives/{archiveld}/retention\_policies.json**

#### Request parameters

|           |        |                                       |
|-----------|--------|---------------------------------------|
| archiveld | String | The unique identifier of the archive. |
|-----------|--------|---------------------------------------|

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [RetentionPoliciesResponse](#)

#### Response status

200 – Entity retention policies read successfully.

401 – Invalid session.

500 - Server error.

## Example of the entity retention policies read

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/retention\_policies.json

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Response

```
{
  "retention_policies" : [{
    "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw",
    "name" : "10 years",
    "accessed" : "2016-07-25T09:44:33.016+02:00",
    "created" : "2015-09-25T10:30:41.052+02:00",
    "modified" : "2016-07-25T09:44:33.018+02:00",
    "action" : "Dispose",
    "creator" : {
      "id" : "johnsmith",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/johnsmith.json"
    },
    "description" : "Dispose after 10 years",
    "detailed_description" : "10 years after closure entity is disposed in the review
process",
    "reason" : "Dispose entities after 10 years",
    "trigger" : "[EntityClose_Review] +10Y < @NOW@",
    "links" : [{
      "type" : "objects",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/AywTRqKdetY4sSZhfzUNuhA-
4_raqO601b01C_r4Ipw/objects.json"
    }
  ]
}
]
```

## 5.11.2 Retention policy read

Operation reads entity retention policy.

### Request

**GET archives/{archiveId}/retention\_policies/{id}.json**

### Request parameters

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.          |
| id        | String | The unique identifier of the retention policy. |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [RetentionPolicyResponse](#)

### Response status

200 – Entity retention policy read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the entity retention policy read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/retention\_policies/AywTRqKdetY4sSZhfzUNuhA-4\_raqO601b01C\_r4lpw.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

```
{
  "retention_policy" : {
    "id" : "AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4lpw",
    "name" : "10 years",
    "accessed" : "2016-07-25T09:44:33.016+02:00",
    "created" : "2015-09-25T10:30:41.052+02:00",
    "modified" : "2016-07-25T09:44:33.018+02:00",
    "action" : "Dispose",
    "creator" : {
      "id" : "johnsmith",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/johnsmith.json"
    },
    "description" : "Dispose after 10 years",
    "detailed_description" : "10 years after closure entity is disposed in the review process",
    "reason" : "Dispose entities after 10 years",
    "trigger" : "[EntityClose_Review] +10Y < @NOW@",
    "links" : [{
      "type" : "objects",
      "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC98/retention_policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4lpw/objects.json"
    }]
  }
}
```



```
}  
}  
}
```

### 5.11.3 Entity retention policy content objects read

Operation reads retention policy content objects.

#### Request

**GET archives/{archiveId}/retention\_policies/{id}/objects/{objectId}**

#### Request header

Authorization: Bearer [session token]

#### Response

The set of object data.

#### Response header

Content-Type: Content type.

Content-Length: Content size (in bytes).

#### Response status

200 – Entity retention policy content objects read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

#### **Example of the entity retention policy content objects**

#### Request

https://apps.imis.eu/scsvc/archives/IARC/retention\_policies/AywTRqKdetY4sSZhfzUNuhA-4\_raqO601b0IC\_r4lpw/objects/y6RWCiVXkVBUrjewasOGOLigKbJcR8qd

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

test

Response header

Content-Type: text/plain

Content-Length: 4

**5.11.4 Entity retention policy object properties read**

Operation reads entity retention policy object properties.

Request**GET archives/{archiveId}/retention\_policies/{id}/objects/{objectId}.json**Request parameters

|           |        |   |
|-----------|--------|---|
| archiveId | String | The unique identifier of the archive.                 |
| id        | String | The unique identifier of the retention policy.        |
| objectId  | String | The unique identifier of the retention policy object. |

Request header

Authorization: Bearer [session token]

ResponseSee chapter [ObjectStubResponse](#)Response status

200 – Entity retention policy object properties read.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity retention policy object properties read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/retention\_policies/  
 AywTRqKdetY4sSZhfzUNuhA-  
 4\_raqO601bOIC\_r4lpw/objects/y6RWCiVXkVBUrjewasOGOLigKbJcR8qd.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```
{
  "object" : {
    "id" : "100705023",
    "description" : "Rules",
    "size" : 14219,
    "created" : "2016-06-23T10:19:30.128+02:00",
    "accessed" : "2016-06-23T10:19:30.128+02:00",
    "modified" : "2016-06-23T10:19:30.128+02:00",
    "content_type" : "application/vnd.openxmlformats-
    officedocument.wordprocessingml.document",
    "extension" : ".docx"
  }
}
```

**5.11.5 Retention policy audit log read**

Operation reads entity retention policy audit log.

Request

**GET archives/{archiveId}/retention\_policies/{id}/audit\_log.json**

Request parameters

|           |        |  |
|-----------|--------|--|
| archiveId | String | The unique identifier of the archive.          |
| id        | String | The unique identifier of the retention policy. |

Request header

Authorization: Bearer [session token]

## Response

See chapter [AuditLog](#)

## Response status

200 – Entity retention policy audit log read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the entity retention policy audit log read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/retention\_policies/  
AywTRqKdetY4sSZhfzUNuhA-4\_raqO6O1bOIC\_r4lpw/audit\_log.json

### Request header

Authorization: Bearer dOf9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

```
{
  "events" : [{
    "time" : "2018-09-25T08:30:41Z",
    "public_address" : "192.168.92.67",
    "type" : "PROPERTY_VALUE_CHANGE",
    "details" : "Changed properties: sys:Creator, sys:Title, sys:ret:pol:Action,
sys:ret:pol:Reason, sys:ret:pol:Trigger",
    "user" : {
      "email" : "alex.nelson@acme.com",
      "first_name" : "Grace",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson/avatar",
      "id" : "alexnelson",
      "last_name" : "Nelson",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson.json"
    }
  }, {
    "time" : "2018-09-25T08:30:41Z",
    "public_address" : "192.168.92.67",
    "type" : "ENTITY_SAVE",
    "user" : {
      "email" : "alex.nelson@acme.com",
      "first_name" : "Grace",
      "icon_url" : "https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson/avatar",
      "id" : "alexnelson",
      "last_name" : "Nelson",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC/directory/alexnelson.json"
    }
  }
]
}
```

## 5.12 Content objects

The entity can also contain content objects that can be described with IANA registered content types (MIME type).

The operations to work with entity content objects are described in more detail below.

### 5.12.1 Entity content object read

Operation reads an entity content object.

Request

**GET archives/{archiveId}/entities/{id}/objects/{objectId}**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String  | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Response

The set of object data.

Response header

Content-Type: Content type.

Content-Length: Content size (in bytes).

### Response status

200 – Entity content objects read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity content objects read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/818ab674825358fccad8728cae072f676e4ebd1e2ae0a9dd1c659855f0e0fa33/objects/100706979

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

```
test
```

#### Response header

Content-Type: text/plain

Content-Length: 4

## **5.12.2 Reading an indexed entity content object**

Operation reads an entity object information.

#### Request

**GET archives/{archiveId}/entities/{id}/object**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/object**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |         |   |
|---------|---------|---|
| index   | Integer | Object index in a collection of objects (optional, default value is 0). |
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).          |
| reason  | String  | The reason for entity open (when “entityIdKind” value is not “H”).      |

Request header

Authorization: Bearer [session token]

Response

The set of object data.

Response header

Content-Type: Content type.

Content-Length: Content size (in bytes).

Response status

200 – Entity object read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### 5.12.3 Entity content object and properties read

Operation reads an entity content object properties.

Request

**GET archives/{archiveId}/entities/{id}/objects/{objectId}.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}.json**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String  | The reason for entity open (when “entityIdKind” value is not “H”). |

Request header

Authorization: Bearer [session token]

Response

See chapter [ObjectStubResponse](#)

Response status

200 – Entity content object properties read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity content object properties read**Request

GET

https://apps.imis.eu/scsvc/archives/IARC/entities/25d61795ed3e08e89251eda8212c76f6cb1e3c733fc9718fbd1cbe996985b0d3/objects/2075b8077354a6516e111c8dd0e5941e892b3311a583bf37b96742fed0fc836f.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0



## Response

```
{
  "object": {
    "id": "2075b8077354a6516e111c8dd0e5941e892b3311a583bf37b96742fed0fc836f",
    "description": "Mandates.docx",
    "size": 0,
    "created": "2017-07-20T07:37:05.750Z",
    "accessed": "2017-12-12T08:22:35.209Z",
    "modified": "2017-07-20T07:37:05.750Z",
    "content_type": "application/vnd.openxmlformats-officedocument.wordprocessingml.document",
    "extension": ".docx",
    "child_count": 1,
    "signed": false,
    "indexed": false,
    "parent_id": "2e936c573ebd170cec47fce2090e8f29332467ad34331d1dec1fe9b98748f25c"
  }
}
```

## 5.12.4 Reading indexed entity content object metadata

Operation reads an entity content object properties.

### Request

**GET archives/{archiveId}/entities/{id}/object.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/object.json**

The set of entityIdKind values: C, E, I, H.

### Request parameters

|         |         |   |
|---------|---------|---|
| index   | Integer | Object index in a collection of objects (optional, default value is 0). |
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).          |
| reason  | String  | The reason for entity open (when "entityIdKind" value is not "H").      |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [ObjectStubResponse](#)

Response status

200 – Entity content object properties read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**5.12.5 Entity object create**

Operation creates an entity content object.

Request

**POST archives/{archiveId}/entities/{id}/objects**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/objects**

The set of entityIdKind values: C, E, I, H.

Request header

Authorization: Bearer [session token]

Content-Type: Content type

Request parameters

|              |         |   |
|--------------|---------|---|
| description  | String  | A description of the entity content object (optional).                          |
| container_id | String  | The unique identifier of additional entity content object container (optional). |
| version      | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).                  |
| reason       | String  | The reason for entity open (when “entityIdKind” value is not “H”).              |

Request content

The set of object data.

Response

See chapter [ObjectStubResponse](#)

### Response status

200 – Entity content object created successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity content object create**

#### Request

POST <https://apps.imis.eu/scsvc/archives/IARC/entities/QQ9mDne6yHvxuKhsgySonIckEAcрпи9P0yGMmtOw8NE/objects?description=test24>

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: text/plain

#### Request content

```
test
```

#### Response

```
{
  "object": {
    "id": "100677409",
    "description": "test24",
    "size": 4,
    "created": "2017-03-15T11:27:04.040+01:00",
    "accessed": "2017-03-15T11:27:04.040+01:00",
    "modified": "2017-03-15T11:27:04.040+01:00",
    "content_type": "text/plain",
    "extension": ".txt",
    "links": [{
      "type": "content",
      "uri":
"https://apps.imis.eu/scsvc/archives/IARC98/entities/I:QQ9mDne6yHvxuKhsgySonIckEAcрпи9P0yGMmtOw8NE/objects/100677409"
    }, {
      "type": "metadata",
      "uri":
"https://apps.imis.eu/scsvc/archives/IARC/entities/QQ9mDne6yHvxuKhsgySonIckEAcрпи9P0yGMmtOw8NE/objects/100677409.json"
    }
  ]
}
```

## 5.12.6 Entity object change

Operation changes an entity content object and description.

### Request

**PUT archives/{archiveId}/entities/{id}/objects/{objectId}**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}**

The set of entityIdKind values: C, E, I, H.

### Request header

Authorization: Bearer [session token]

Content-Type: Entity content object type; mandatory when object dataset is updated (optional).

### Request parameters

|             |         |  |
|-------------|---------|--|
| description | String  | A description of the content object (optional).  |
| new_index   | Integer | New object index in the collection of entity objects (applies to a specific content object container). |
| reason      | String  | The reason for entity open (when "entityIdKind" value is not "H").                                     |
| version     | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).   |

### Request content

The set of object data.

### Response

See chapter [ObjectStubResponse](#)

### Response status

200 – Entity object updated successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## Example of the entity content object update

### Request

PUT <https://apps.imis.eu/scsvc/archives/IARC/entities/QQ9mDne6yHvxuKhsgySonIckEAcrpi9P0yGMmtOw8NE/objects>

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: text/plain

### Request content

```
test
```

### Response

```
{
  "object": {
    "id": "100677409",
    "description": "test24",
    "size": 4,
    "created": "2017-03-15T11:27:04.040+01:00",
    "accessed": "2017-03-15T11:27:04.040+01:00",
    "modified": "2017-03-15T11:27:04.040+01:00",
    "content_type": "text/plain",
    "extension": ".txt",
    "links": [{
      "type": "content",
      "uri":
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:QQ9mDne6yHvxuKhsgySonIckEAcrpi9P0yGMmtOw8NE/objects/100677409"
    }, {
      "type": "content_with_metadata",
      "uri":
      "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:QQ9mDne6yHvxuKhsgySonIckEAcrpi9P0yGMmtOw8NE/objects/100677409.json"
    }
  ]
}
```

## 5.12.7 Modifying an indexed entity content object

Operation updates an entity description and content object.

### Request

**PUT archives/{archiveId}/entities/{id}/object**

and

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/object**

The set of entityIdKind values: C, E, I, H.

### Request header

Authorization: Bearer [session token]

Content-Type: Entity content object type; mandatory when object dataset is updated (optional)

### Request parameters

|             |         |   |
|-------------|---------|---|
| description | String  | Object description (optional).  |
| index       | Integer | Object index in a collection of objects (optional, default value is 0). |
| version     | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).          |
| reason      | String  | The reason for entity open (when "entityIdKind" value is not "H").      |

### Request content

The set of object data.

### Response

See chapter [ObjectStubResponse](#)

### Response status

200 – Entity object updated successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## 5.12.8 Entity object delete

Operation deletes an entity content object.

### Request

**DELETE** archives/{archiveId}/entities/{id}/objects/{objectId}.json

and

**DELETE** archives/{archiveId}/ entities/{entityIdKind}:{id}/objects/{id}.json

The set of entityIdKind values: C, E, I, H.

### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).     |
| reason  | String  | The reason for entity open (when "entityIdKind" value is not "H"). |

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity content object deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## Example of the entity content object delete

### Request

DELETE https://apps.imis.eu/scsvc/archives/IARC/entities/  
82c3d25661a4b26ad40827ad3ed32f8bca278db9c84f86de6535b735b48833f8/objects/  
100705998.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response status

200 – Entity content object deleted successfully.

**5.12.9 Deleting an indexed entity content object**

Operation deletes an entity content object.

Request

**DELETE archives/{archiveId}/entities/{id}/object.json**

and

**DELETE archives/{archiveId}/entities/{entityIdKind}:{id}/object.json**

The set of entityIdKind values: C, E, I, H.

Request parameters

|         |         |   |
|---------|---------|---|
| index   | Integer | Object index in a collection of objects (optional, default value is 0). |
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).          |
| reason  | String  | The reason for entity open (when “entityIdKind” value is not “H”).      |

Request header

Authorization: Bearer [session token]

Response status

200 – Entity content object deleted successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.



## 5.12.10 Entity object move

Operation moves an entity content object from one entity to another.

### Request

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/move/  
{entityIdKind}:{targetId}.json**

The set of entityIdKind values: C, E, I.

and

**PUT archives/{archiveId}/entities/{id}/objects/{objectId}/move/{targetId}.json**

### Request parameters

|                     |         |  |
|---------------------|---------|--|
| reason              | String  | The reason to move (optional).   |
| source_version      | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).                                   |
| target_container_id | String  | The unique identifier of additional entity content object container of target entity (optional). |
| target_version      | Integer | Target entity version (optional; IMiS®/ARChive Server 9.9 or higher).                            |

### Response

See chapter [ObjectStubResponse](#)

### Response status

200 – Entity content object moved successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## Example of the entity content object move

### Request

PUT

https://apps.imis.eu/scsvc/archives/IARC/entities/225de25ed49264f6a7424d0d5c23d906c21d088e4c650d6548d80f1690747cdc/objects/ac23f6737512c19a32f75f4948d7d85cba70ce441c5829f31b01aeae726b75b/move/l:600c57129a78c7fab1c69082eb76e219659927871a2d6b9f7918027bd6599adf.json

### Request header

Authorization: Bearer c7611e4a-45f8-451f-81ca-2eb6755b3295

### Response

```
{
  "object": {
    "id": "ac23f6737512c19a32f75f4948d7d85cba70ce441c5829f31b01aeae726b75b",
    "description": "02.jpg",
    "size": 1516490,
    "created": "2017-11-02T08:52:47.787Z",
    "accessed": "2017-11-02T08:52:47.787Z",
    "modified": "2017-11-02T08:52:47.787Z",
    "content_type": "image/jpeg",
    "extension": ".jpg",
    "child_count": 0,
    "signed": false,
    "indexed": false
  }
}
```

## 5.12.11 Entity content object copy

Operation copies an entity content object to another entity.

### Request

**PUT archives/{archiveId}/entities/{id}/objects/{objectId}/copy/  
{targetId}.json**

and

**PUT**

**archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/copy/  
{entityIdKind}:{target}.json**

The set of entityIdKind values: C, E, I.

Request parameters

|                |         |  |
|----------------|---------|--|
| container_id   | String  | The unique identifier of additional entity content object container of target entity (optional). |
| description    | String  | Object description (optional).   |
| reason         | String  | The reason to copy (optional).   |
| source_version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).                                   |
| target_version | Integer | Target entity version (optional; IMiS®/ARChive Server 9.9 or higher).                            |

Response

See chapter [ObjectStubResponse](#)

Response status

200 – Entity content object updated successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity content object update**Request

PUT

https://apps.imis.eu/scsvc/archives/IARC/entities/600c57129a78c7fab1c69082eb76e219659927871a2d6b9f7918027bd6599adf/objects/ac23f6737512c19a32f75f4948d7d85cba70ce441c5829f31b01aeae726b75b/copy/l:600c57129a78c7fab1c69082eb76e219659927871a2d6b9f7918027bd6599adf.json?description=03.jpeg

Request header

Authorization: Bearer c7611e4a-45f8-451f-81ca-2eb6755b3295

## Response

```
{
  "object": {
    "id": "f808e55baf2979c57946b0e852bf8b365852af80326dd6ca573bb27e7bed07b",
    "description": "03.jpeg",
    "size": 1516490,
    "created": "2017-12-12T08:12:10.881Z",
    "accessed": "2017-12-12T08:12:10.881Z",
    "modified": "2017-12-12T08:12:10.881Z",
    "content_type": "image/jpeg",
    "extension": ".jpg",
    "child_count": 0,
    "signed": false,
    "indexed": false
  }
}
```

## 5.12.12 Queue for indexing / conversion

Operation marks an entity content object for later indexing (Queue for Indexing) or conversion (Queue for Conversion).

### Request

**POST archives/{archiveId}/entities/{id}/objects/{objectId}/manage.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/manage.json**

The set of entityIdKind values: C, E, I.

### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
|---------|---------|--|

### Request content

See chapter [ObjectManageRequest](#)

### Response

See chapter [ObjectStubResponse](#)

### Response status

200 – Entity content object marked successfully.

400 – Bad request.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity queuing for indexing or conversion**

#### Request

PUT

https://apps.imis.eu/scsvc/archives/IARC/entities/600c57129a78c7fab1c69082eb76e219659927871a2d6b9f7918027bd6599adf/objects/ac23f6737512c19a32f75f4948d7d85cba70ce441c5829f31b01aeae726b75b/manage.json

#### Request header

Authorization: Bearer c7611e4a-45f8-451f-81ca-2eb6755b3295

```
{
  "manage": {
    "queue_for_indexing": true,
    "queue_for_conversion": true
  }
}
```

#### Response

```
{
  "object": {
    "id": "1e1c54264783c3e93026fcbac2d012e2ef180ab86b9c9b74ccc92847f2f204e8",
    "description": "license.rtf",
    "size": 13559,
    "created": "2017-07-19T09:45:55.578Z",
    "accessed": "2017-07-19T12:05:44.387Z",
    "modified": "2017-07-19T09:45:55.578Z",
    "content_type": "application/msword",
    "extension": ".doc",
    "child_count": 1,
    "signed": false,
    "indexed": false
  }
}
```

### 5.12.13 Entity object detach

Operation detaches an entity content object contained under a parent content object.

#### Request

**POST** `archives/{archiveId}/entities/{id}/objects/{objectId}/detach.json`

and

**POST** `archives/{archiveId}/entities/{C/E/I}:{id}/objects/{objectId}/detach.json`

#### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
|---------|---------|--|

#### Response

See chapter [ObjectStubResponse](#)

### 5.12.14 Reading a content object by parts

Operation retrieves a part of the dataset of the entity object.

#### Request

**GET** `archives/{archiveId}/entities/{id}/objects/{objectId}/stream`

and

**GET** `archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/stream`

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|         |         |  |
|---------|---------|--|
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher). |
|---------|---------|--|

#### Request header

Authorization: Bearer [session token]

Range: bytes=[from]-[to (optional)]

Response

The set of object data.

Response header

Content-Type: Content type.

Content-Range: The size of the content part (e.g.: bytes 2097152-4194303/11845770).

Response status

200 – Entity content object read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**5.12.15 Reading an indexed content object by parts**

Operation retrieves a part of the dataset of the entity object.

Request

**GET archives/{archiveId}/entities/{id}/object/stream**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/object/stream**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/object/stream/{objectHandle}**

The set of entityIdKind values: H.

Request parameters

|         |         |   |
|---------|---------|---|
| index   | Integer | Object index in a collection of objects (optional, default value is 0). |
| version | Integer | Entity version (optional; IMiS®/ARChive Server 9.9 or higher).          |

Request header

Authorization: Bearer [session token]

Range: bytes=[from]-[to (optional)]

### Response

The set of data object.

### Response header

Content-Type: Content type.

Content-Range: The size of the content part (e.g.: bytes 2097152-4194303/11845770).

### Response status

200 – Entity content object read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **5.12.16 Opening a content object by parts**

Operation retrieves the entity object handle for reading by parts.

### Request

#### **GET**

**archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/stream/open.json**

The set of entityIdKind values: H.

### Request header

Authorization: Bearer [session token]

### Response

See chapter [HandleOpenResponse](#)

### Response status

200 – Entity content object opened successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.



## 5.12.17 Opening an indexed content object by parts

Operation retrieves the entity object handle for reading by parts.

### Request

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/object/stream/open.json**

The set of entityIdKind values: H.

### Request parameters

|       |         |   |
|-------|---------|---|
| index | Integer | Object index in a collection of objects (optional, default value is 0). |
|-------|---------|---|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [HandleOpenResponse](#)

### Response status

200 – Entity content object opened successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### 5.12.18 Closing a content object by parts

Operation closes the content object for reading by parts with the entity object handle.

#### Request

#### **GET**

**archives/{archiveId}/entities/{entityIdKind}:{id}/objects/{objectId}/stream/{objectHandle}/close.json**

The set of entityIdKind values: H.

#### Request header

Authorization: Bearer [session token]

#### Response status

200 – Entity content object closed successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### 5.12.19 Closing an indexed content object by parts

Operation closes the content object for reading by parts with the entity object handle.

#### Request

#### **GET**

**archives/{archiveId}/entities/{entityIdKind}:{id}/object/stream/{objectHandle}/close.json**

The set of entityIdKind values: H.

Request parameters

|       |         |   |
|-------|---------|---|
| index | Integer | Object index in a collection of objects (optional, default value is 0). |
|-------|---------|---|

Request header

Authorization: Bearer [session token]

Response status

200 – Entity content object closed successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## 5.12.20 Creating a session for uploading content by parts

Operation creates a session for uploading content by parts. Uploading content by parts takes place in several steps; the upload session is created first, followed by the sequential upload of content by parts. The upload finish operation is called to save the object. The delete operation is called to cancel the session for uploading content by parts (the entity close operation deletes all sessions for uploading content by parts).

Request

**POST** `archives/{archiveId}/entities/H:{id}/create_sessions.json`

Request header

Authorization: Bearer [session token]

Request header

See chapter [ObjectUploadSessionCreateRequest](#)

Response

See chapter [ObjectUploadSessionCreateResponse](#)

### Response status

200 – Object upload session created successfully.

400 – Bad request.

401 – Invalid session.

404 – Entity does not exist.

500 - Server error.

## **5.12.21 Content upload in the session for uploading content by parts**

Operation adds content to the session for uploading content by parts. Each part must be uploaded sequentially. The request header must send the size of the content part and the position of the content part in which the dataset is located.

### Request

**POST archives/{archiveId}/entities/H:{id}/create\_sessions.json**

### Request header

Authorization: Bearer [session token]

content-range: [beginning of content part in bytes]-[end of content part in bytes]

content-length: [size of content part in bytes]

### Request content

Object dataset.

### Response

See chapter [ObjectUploadSessionCreateResponse](#)

### Response status

200 – Object content uploaded successfully.

400 – Bad request.

401 – Invalid session.

404 – Entity does not exist.

500 - Server error.

## **5.12.22 Saving content in the session for uploading content by parts**

Operation saves the content from the session for uploading content by parts to the entity.

The request content can send a description of the content and the content container identifier.

After a successful save, the session for uploading content by parts is removed.

### Request

**POST** `archives/{archiveId}/entities/H:{id}/create_sessions/{createSessionId}/save.json`

### Request header

Authorization: Bearer [session token]

### Response

See chapter [ObjectUploadSessionSaveRequest](#)

### Response

See chapter [ObjectStubResponse](#)

#### Response status

200 – Content upload session saved successfully.

400 – Bad request.

401 – Invalid session.

404 – Entity does not exist.

500 - Server error.

### **5.12.23 Canceling the session for uploading content by parts**

Operation deletes the session for uploading content by parts.

#### Request

**DELETE archives/{archiveId}/entities/H:{id}/create\_sessions/{createSessionId}.json**

#### Request header

Authorization: Bearer [session token]

#### Response status

200 – Object upload session removed successfully.

401 – Invalid session.

404 – Entity does not exist.

500 - Server error.

## **5.13 Authenticity**

Authenticity and integrity proofs evidence the authenticity and integrity of the entity.

The operations to work with authenticity are described in more detail below.

### 5.13.1 Entity authenticity and integrity proofs read

Operation reads an entity authenticity and integrity proofs.

#### Request

**GET archives/{archiveId}/entities/{id}/nonrepudiation.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/nonrepudiation.json**

and

**GET archives/{archiveId}/entities/{id}/nonrepudiation.zip**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/nonrepudiation.zip**

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |  |
|--------|--------|--|
| Reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [EntityNonrepudiationResponse](#)

#### Response status

200 – Entity authenticity and integrity proofs read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### Example of the authenticity and integrity proofs

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/  
fn7bkQwI89P1DupVWGLrarzEC6vVCB1-jWoSBmr4IZA/nonrepudiation.json

## Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

## Response

```
{
  "nonrepudiation" : {
    "archival_information_package" :
    "PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz48Yw1wOkFJUCB4bWxuczphaXA9Imh0dHA6Ly93d3cuaW1pcy5ldS9pbWl3YXJjL2FpcCIgeG1sbnM6ZHM9Imh0dHA6Ly93d3cudzMub3JnLzIwMDAvMDkveG1sZHNpZyMiPjxhaXA6S9GVhZGVyIFZlcnNpb249IjEiPjxkc2pDYW5vbmljYXxpemF0aW9uTWV0aG9kIEFsZ29yaXR0bT0iaHR0cDovL3d3dy53My5vcmcvVFVwMjAwMS9SRUMteG1sLWwXNG4tMjAwMTAzMTUzLz48L2FpcDpIZWfkZlI+PGFpcDpBdHRyaWJldGUgSWQ9IkkF0cmliZG90MTiFR5cGU9IjciLz48Yw1wOkF0dHJpYnV0ZSBjZD0ic3l3OkNvbW1pdE9vZyIvVHlwZT0iMTciLz48Yw1wOkNvbRlbnQgSWQ9InN5c2pDb250ZW50Ij48Yw1wOkNvbRlbnRWYX1ZT48ZHM6RGlncXN0TWV0aG9kIEFsZ29yaXR0bT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS8wNC94bWw1bW1jY2hhMjU2Ii8+PGRzOkRzZ2VzdFZhbHVlPk52MDZMaHNURlpwZ0NjU2t3OTA1U0pxQWkzNHdzKytOWHY4RWYrUXFpMjA9PC9kc2pEaWdlc3RWYX1ZT48L2FpcDpDb250ZW50VmfSdWU+PGFpcDpDb250ZW50VmfSdWU+PGRzOkRzZ2VzdE1ldGhvZCBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDAvMDkveG1sZWN5I3NoYTI1NiIvPjxkc2pEaWdlc3RWYX1ZT5vbE9xQW9FbVp4ajZUeXdhajloRzR6MVBnM1BtMfVPaFRxMjNBUXMxWdVrPTwvZHM6RGlncXN0VmfSdWU+PC9haXA6Q29udGVudFZhbHVlPjwvYw1wOkNvbRlbnQ+PC9haXA6QU1QPg==",
    "evidence_records" : [
      "PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz48RXZpZGVuY2VSZWNvcnQeG1sbnM9InVybjppZXRmOnBhcmFtc2p4bWw6bnM6ZlZjZiBlbWZlZz0iVVRGLTgiPz48Yw1wOkF0dHJpYnV0ZSBjZD0ic3l3OkNvbW1pdE9vZyIvVHlwZT0iMTciLz48Yw1wOkNvbRlbnQgSWQ9InN5c2pDb250ZW50Ij48Yw1wOkNvbRlbnRWYX1ZT48ZHM6RGlncXN0TWV0aG9kIEFsZ29yaXR0bT0iaHR0cDovL3d3dy53My5vcmcvMjAwMS8wNC94bWw1bW1jY2hhMjU2Ii8+PGRzOkRzZ2VzdFZhbHVlPk52MDZMaHNURlpwZ0NjU2t3OTA1U0pxQWkzNHdzKytOWHY4RWYrUXFpMjA9PC9kc2pEaWdlc3RWYX1ZT48L2FpcDpDb250ZW50VmfSdWU+PGFpcDpDb250ZW50VmfSdWU+PGRzOkRzZ2VzdE1ldGhvZCBBbGdvcml0aG09Imh0dHA6Ly93d3cudzMub3JnLzIwMDAvMDkveG1sZWN5I3NoYTI1NiIvPjxkc2pEaWdlc3RWYX1ZT5vbE9xQW9FbVp4ajZUeXdhajloRzR6MVBnM1BtMfVPaFRxMjNBUXMxWdVrPTwvZHM6RGlncXN0VmfSdWU+PC9haXA6Q29udGVudFZhbHVlPjwvYw1wOkNvbRlbnQ+PC9haXA6QU1QPg==",
      ...
    ]
  }
}
```

## 5.13.2 Reading entity authenticity and integrity proofs created prior to import

The operation retrieves information on entity authenticity and integrity proofs created prior to the entity import.

### Request

**GET archives/{archiveId}/entities/{id}/transfer\_details/evidence**

and

**GET archives/{archiveId}/entities/{idKind}:{id}/transfer\_details/evidence**

The set of IdKind values: C, E, I, H.



Request parameters

|         |         |  |
|---------|---------|--|
| reason  | String  | The reason for entity open (if “idKind” is not “H”). |
| version | Integer | The entity version (optional).                       |

Request header

Authorization: Bearer [session token]

Response

The dataset of entity authenticity and integrity proofs created prior to import.

Response status

200 – Authentication evidence read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## 5.14 Audit log

The audit log contains records on user activity on certain entities.

### 5.14.1 Entity audit log read

Operation reads entity audit log.

Request

**GET archives/{archiveId}/entities/{id}/audit\_log.json**

and

**GET archives/{archiveId}/entities/{idKind}:{id}/audit\_log.json**

The set of IdKind values: C, E, I, H.

and

**GET archives/{archiveId}/entities/{id}/audit\_log.csv**

and

**GET archives/{archiveId}/entities/{IdKind}:{id}/audit\_log.csv**

The set of IdKind values: C, E, I, H.

and

**GET archives/{archiveId}/entities/{id}/audit\_log.xml**

and

**GET archives/{archiveId}/entities/{IdKind}:{id}/audit\_log.xml**

The set of IdKind values: C, E, I, H.

Request header

Authorization: Bearer [session token]

Response (JSON)

See chapter [AuditLog](#)

Response (CSV)

See chapter [AuditLogCSV](#)

Response (XML)

Returns the entity audit log in the original form received from the archive.

Response status

200 – Entity audit log read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entity audit log read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/entities/350d8c293c4bbd284b3be30010152c5a486bc1744f8895d2b752c4d0bd14ba46/audit\_log.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

```

{
  "events" : [{
    "time" : "2016-06-07T07:44:43Z",
    "public_address" : "192.168.92.72",
    "local_address" : "192.168.92.72",
    "computer_name" : "IMIS_JOHN",
    "type" : "RETENTION_CHANGE ",
    "details" : "Added policies:'3 years'",
    "user" : {
      "id" : "marcowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }, {
    "time" : "2016-06-07T07:44:43Z",
    "public_address" : "192.168.92.72",
    "local_address" : "192.168.92.72",
    "computer_name" : "IMIS_JOHN",
    "type" : "PROPERTY_VALUE_CHANGE",
    "details" : "Changed properties: sys:Creator, sys:Title",
    "user" : {
      "id" : "marcowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }, {
    "time" : "2016-06-07T07:44:43Z",
    "public_address" : "192.168.92.72",
    "local_address" : "192.168.92.72",
    "computer_name" : "IMIS_JOHN",
    "type" : "SECURITY_CLASS_CHANGE",
    "details" : "Security Class initially set to 'Unclassified [1]'",
    "user" : {
      "id" : "marcowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }
]
}

```

## 5.14.2 Reading the entity audit log created prior to import

The operation retrieves information on the entity audit log created prior to import.

### Request

**GET archives/{archiveId}/entities/{id}/transfer\_details/audit\_log**

and

**GET archives/{archiveId}/entities/{idKind}:{id}/transfer\_details/audit\_log**

The set of IdKind values: C, E, I, H.

Request parameters

|         |         |  |
|---------|---------|--|
| Reason  | String  | The reason for entity open (if “idKind” is not “H”). |
| Version | Integer | The entity version (optional).                       |

Request header

Authorization: Bearer [session token]

Response

The set of audit log data.

Response status

200 – Entity audit log read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### 5.14.3 Entity audit log with multiple parameters and statistics read

Operation reads entity audit log with more parameters and statistics.

Request

**POST archives/{archiveId}/audit\_log.json**

and

**POST archives/{archiveId}/ audit\_log.csv**

and

**POST archives/{archiveId}/audit\_log.xml**

Request parameters

Authorization: Bearer [session token]

### Request content

See chapter [AuditLogRequest](#)

### Response (JSON)

See chapter [AuditLog](#)

### Response (CSV)

See chapter [AuditLogCSV](#)

### Response (XML)

Returns the audit log of the entity in its original form

### Response status

200 – Entity audit log read successfully.

401 – Invalid session.

404 - Object does not exist.

500 – Server error.

## **Example of entity audit log read**

### Request

POST [https://apps.imis.eu/scsvc/archives/IARC/audit\\_log.json](https://apps.imis.eu/scsvc/archives/IARC/audit_log.json)

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "after" : "2019-10-01T17:28:28+0200",
  "before" : "2019-10-07T17:28:31+0200",
  "page_size" : 15,
  "page_start" : 0,
  "refresh" : true,
  "sort_by_date" : "DESCENDING",
  "statistic" : true
}
```

**Response**

```

{
  "events": [
    {
      "classification_code": "C=60^F=2019-000038^D=000002",
      "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
      "details": "03644.pdf [mraFOpy0U4lrwrCTISUHeONJj4C8a5RH]",
      "id": "xEcfgfXmIzN4koumXrX1tDhuyiaWsL7E",
      "local_address": "::1",
      "public_address": "192.168.80.64",
      "public_classification_code": "60-2019-000038/000002",
      "time": "2019-10-07T15:00:49Z",
      "type": "CONTENT_PART_OPEN_READ_ONLY",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "version": 3,
      "version_label": "2"
    },
    {
      "classification_code": "C=60^F=2019-000038^D=000002",
      "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
      "details": "03644.pdf [mraFOpy0U4lrwrCTISUHeONJj4C8a5RH]",
      "id": "xEcfgfXmIzN4koumXrX1tDhuyiaWsL7E",
      "local_address": "::1",
      "public_address": "192.168.80.64",
      "public_classification_code": "60-2019-000038/000002",
      "time": "2019-10-07T15:00:43Z",
      "type": "CONTENT_PART_OPEN_READ_ONLY",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "version": 3,
      "version_label": "2"
    },
    {
      "classification_code": "C=60^F=2019-000038^D=000002",
      "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
      "id": "xEcfgfXmIzN4koumXrX1tDhuyiaWsL7E",
      "local_address": "::1",
      "public_address": "192.168.80.64",
      "public_classification_code": "60-2019-000038/000002",
      "time": "2019-10-07T15:00:41Z",
      "type": "ENTITY_OPEN_READ_ONLY",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "version": 3,
      "version_label": "2"
    }
  ],
}

```

```

{
  "classification_code": "C=04",
  "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
  "id": "vI85jBXAIHVm7kKPxWf0yTallER4BH1t",
  "local_address": "::1",
  "public_address": "192.168.80.64",
  "public_classification_code": "04",
  "time": "2019-10-07T15:00:16Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsv/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
},
{
  "classification_code": "C=64",
  "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
  "id": "s54tq5hr-0FIOgZdZ2_t4xZhNFOIE9CU",
  "local_address": "::1",
  "public_address": "192.168.80.64",
  "public_classification_code": "64",
  "time": "2019-10-07T15:00:09Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsv/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
},
{
  "classification_code": "C=60^D=000001",
  "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
  "id": "X6LJA17GRZsdQf667CJ0vjLW3ZHt1rff",
  "local_address": "::1",
  "public_address": "192.168.80.64",
  "public_classification_code": "60/000001",
  "time": "2019-10-07T15:00:04Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsv/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
},
{
  "classification_code": "C=60^D=000062",
  "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
  "id": "WHyjF1A9twioTacYqLEnt-CVxPmSrt6M",
  "local_address": "::1",
  "public_address": "192.168.80.64",
  "public_classification_code": "60/000062",
  "time": "2019-10-07T14:59:58Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",

```

```

      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000001",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrfF",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000001",
    "time": "2019-10-07T14:59:53Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000062",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "WHyjF1A9twioTacYqLEnt-CVxPmSrt6M",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000062",
    "time": "2019-10-07T14:59:48Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000001",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrfF",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000001",
    "time": "2019-10-07T14:59:45Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000001",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrfF",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000001",
    "time": "2019-10-07T14:59:41Z",

```



```

    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000001",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtLrff",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000001",
    "time": "2019-10-07T14:59:31Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=60^D=000062",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "WHyjF1A9twioTacYqLEnt-CVxPmSrt6M",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "60/000062",
    "time": "2019-10-07T14:59:26Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=53",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",
    "id": "PQkq8EKZ9ADkOZDF9I3WfspTldCpGSX",
    "local_address": "::1",
    "public_address": "192.168.80.64",
    "public_classification_code": "53",
    "time": "2019-10-07T14:59:20Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  },
  {
    "classification_code": "C=64",
    "computer_name": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/77.0.3865.90 Safari/537.36",

```

```
"id": "s54tq5hr-0FIOqzdZ2_t4xZhNFOIE9CU",
"local_address": "::1",
"public_address": "192.168.80.64",
"public_classification_code": "64",
"time": "2019-10-07T14:59:16Z",
"type": "ENTITY_OPEN_READ_WRITE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
},
"size": 54358,
"statistic": {
  "days": [
    {
      "date": "2019-10-02+02:00",
      "events": 54113
    },
    {
      "date": "2019-10-03+02:00",
      "events": 84
    },
    {
      "date": "2019-10-04+02:00",
      "events": 94
    },
    {
      "date": "2019-10-07+02:00",
      "events": 67
    }
  ],
  "users": [
    {
      "date": "2019-10-02+02:00",
      "users": 2
    },
    {
      "date": "2019-10-03+02:00",
      "users": 1
    },
    {
      "date": "2019-10-04+02:00",
      "users": 2
    },
    {
      "date": "2019-10-07+02:00",
      "users": 1
    }
  ]
}
}
```

## 5.15 Search

Search enables metadata and entity content search.

The operations to work with search are described in more detail below.

## 5.15.1 Entities search

Operation provides entity search on the entire archive or under the selected entity only and retrieves public information on searched entities.

### Request

#### **GET archives/{archiveId}/search.json**

Search is provided on the entire archive.

and

#### **GET archives/{archiveId}/entities/{id}/search.json**

and

#### **GET archives/{archiveId}/entities/{entityIdKind}:{id}/search.json**

Search is provided under the selected entity. The set of entityIdKind values: C, E, I.

### Request header

Authorization: Bearer [session token]

### Request parameters

If the filter is not set, basic entity information are: *id*, *title*, *description*, *type*, *classification\_code*, *public\_classification\_code*, *status*. Links are of the type: *entity* and *entity:stub*.

|            |         |   |
|------------|---------|---|
| Expr       | String  | Search query.   |
| Filter     | String  | The filter defines the scope of the entity information (optional).<br>If the “fields” parameter has been sent, this parameter does not apply.<br>The set of values:<br>- all: All public information and links to the entities<br>- links: Links to the entities<br>- props: Public information on entity properties<br>- templates: Templates for child entities creation. |
| page_start | Integer | The beginning of the page (optional).   |
| page_size  | Integer | The size of the page (optional).  |
| Refresh    | Boolean | If value is <i>true</i> than search is performed again; otherwise it is performed only first time. Parameter is taken into the account when page_start in page_size parameters are present (optional).  |

|                     |         |  |
|---------------------|---------|--|
| Sort                | String  | The sort key of the collection (optional).<br>The set of values:<br><ul style="list-style-type: none"> <li>- sys:Title: The title of the entity.</li> <li>- sys:ClassificationCode: The classification code (default value).</li> <li>- sys:Creator: The author of the entity.</li> <li>- sys:Owner: vThe owner of the entity.</li> <li>- sys:Opened: Date and time of the entity open.</li> <li>- sys:SecurityClass: The security class of the entity.</li> <li>- sys:Status: The status of the entity.</li> <li>- sys:Significance: The significance of the entity.</li> <li>- metadata identifier.</li> </ul> |
| sort_order          | String  | The sort order of the collection (optional). Valid only if the “sort” parameter exists.<br>The set of values:<br><ul style="list-style-type: none"> <li>- asc: Ascending (default value).</li> <li>- desc: Descending.</li> </ul>  |
| category_properties | String  | The property used to request the categorization of the entity collection. The value enables multiple values, separated by the character “ , ” (optional). The response provides a list of potential categories by properties.  |
| Category            | String  | The category of the entity collection. The value represents the category to which the entities belong (optional).  |
| max_elements        | Integer | Maximum number of search elements (optional).  |
| Fields              | String  | Defines the fields in the reply.<br><i>Example:</i><br>search (size, truncated, categories, page_size, page_start, results (id, title, modified, child_count, closed, permanent, classification_code, description, effective_rights, parent_id, public_classification_code, type, objects, has_draft)).  |
| Classes             | Boolean | Specifies whether the response contains class-type entities.<br>Default value is false, if the classes or folders exists; otherwise true (optional).   |
| Folders             | Boolean | Specifies whether the response contains folder-type entities.<br>Default value is false, if the classes or folders exists; otherwise true (optional).  |
| Documents           | Boolean | Specifies whether the response contains document-type entities.<br>Default value is false, if the classes or folders exists; otherwise true (optional).  |
| max_depth           | Integer | Specifies the maximum level in the entity hierarchy under which the search will be performed (optional).   |

|             |         |  |
|-------------|---------|--|
| recursive   | Boolean | Specifies whether recursive search will be performed under the selected source.<br>Default value is true (optional). |
| handle      | String  | Collection handle.   |
| exact_match | Boolean | Defines whether an exact-match search is performed.  |

### Response

See chapter [SearchResponse](#)

### Response status

200 – Entities search performed successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entities full text search when search query is “Android”**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/search.json?expr={android}

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

```
{
  "search" : {
    "results" : [{
      "classification_code" : "C=147^D=00001",
      "id" : "Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E",
      "links" : [{
        "type" : "entity",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E.json"
      }, {
        "type" : "entity:stub",
        "uri" :
        "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:Z0EaLq4iZjhP8nitB3V5MnwA4BdDAoMLNkpYLyNLV9E/stub.json"
      }
    ],
    "objects" : [{
      "description" : "Email - body"
    }
  ]
}
```

```

    }, {
      "description" : "Email - raw"
    }
  ],
  "public_classification_code" : "147/00001",
  "title" : "Imaging Systems Daily Summary for July 27th",
  "type" : "DOCUMENT"
}, {
  "classification_code" : "C=147^D=00056",
  "id" : "EgF0_TREPI6zZtCDPzYlkD3FsK-Egg_HMOoc__HIsK8",
  "links" : [{
    "type" : "entity",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:EgF0_TREPI6zZtCDPzYlkD3FsK-
    Egg_HMOoc__HIsK8.json"
  }], {
    "type" : "entity:stub",
    "uri" :
    "https://apps.imis.eu/scsvc/archives/IARC98/entities/I:EgF0_TREPI6zZtCDPzYlkD3FsK-
    Egg_HMOoc__HIsK8/stub.json"
  }
  ],
  "objects" : [{
    "description" : "Email - body"
  }], {
    "description" : "Email - raw"
  }
  ],
  "public_classification_code" : "147/00056",
  "title" : "View (and edit, and share) your files on the go",
  "type" : "DOCUMENT"
}
]
}
}

```

## 5.16 Reports

Reports enable reading an entity collection by opening the entities for reading. The results can be limited with parameters for searching by metadata, entity content, access permissions, entity type and effective user permissions.

Below is a description of entity search operations.

### 5.16.1 Report read

The operation performs the reading of a report throughout the archive or under the selected entity, and retrieves entity information.

Request**GET archives/{archiveId}/reports.json**

The report is executed throughout the archive.

and

**GET archives/{archiveId}/entities/{id}/reports.json**

and

**GET archives/{archiveId}/entities/{idKind}:{id}/reports.json**

The report is executed under the selected entity. The set of IdKind values: C, E, I.

Request header

Authorization: Bearer [session token]

Request parameters

|            |         |   |
|------------|---------|---|
| expr       | String  | The search expression (optional).   |
| page_start | Integer | The beginning of the page (optional).   |
| page_size  | Integer | The size of the page (optional).  |
| refresh    | Boolean | If <i>true</i> , the reading of the report is executed again; otherwise, it is executed only on the first reading of the report. This parameter is applied when the parameters "page_start" and "page_size" are present (optional).   |
| sort       | String  | The sort key of the collection (optional).<br>The set of values:<br><ul style="list-style-type: none"> <li>- sys:Title: The title of the entity.</li> <li>- sys:ClassificationCode: The classification code (default value).</li> <li>- sys:Creator: The author of the entity.</li> <li>- sys:Owner: The owner of the entity.</li> <li>- sys:Opened: Date and time of the entity open.</li> <li>- sys:SecurityClass: The security class of the entity.</li> <li>- sys:Status: The status of the entity.</li> <li>- sys:Significance: The significance of the entity.</li> </ul> |
| sort_order | String  | The sort order of the collection (optional). Valid only if the "sort" parameter exists.<br>The set of values:<br><ul style="list-style-type: none"> <li>- asc: Ascending (default value).</li> <li>- desc: Descending.</li> </ul>   |

|        |        |   |
|--------|--------|---|
| fields | String | Defines the fields in the reply (optional).<br><i>Example:</i><br>entities(id,title,modified,child_count,closed,permanent,classification_code,description,effective_rights,parent_id,public_classification_code,type,objects,has_draft),size. |
|--------|--------|---|

|            |         |  |
|------------|---------|--|
| classes    | Boolean | Specifies whether the response contains class-type entities. Default value is false, if the folders or documents exists; otherwise true (optional).  |
| folders    | Boolean | Specifies whether the response contains folder-type entities. Default value is false, if the classes or documents exists; otherwise true (optional).   |
| documents  | Boolean | Specifies whether the response contains document-type entities. Default value is false, if the classes or folders exists; otherwise true (optional).   |
| max_depth  | Integer | Specifies the maximum level in the entity hierarchy under which the search will be performed (optional).   |
| recursive  | Boolean | Specifies whether recursive search will be performed under the selected source. Default value is true (optional).  |
| acl        | Boolean | Specifies whether the list of access permissions under a given entity within the collection is returned. Default value is <i>false</i> (optional).   |
| access_all | Boolean | Specifies whether effective permissions are returned for all directory entities under a given entity within the collection. Default value is <i>false</i> (optional).  |
| access     | String  | Specifies whether effective permissions are returned for specific directory entities under a given entity within the collection. Values are represented by the unique identifier of the directory entity. Multiple values are separated by the character “,”, e.g. admin,kclay,rsalazar. |
| reason     | String  | The reason for opening entities when reading the report.   |
| handle     | String  | Collection handle.   |



### Response

See chapter [ReportsResponse](#)

### Response status

200 – Report read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **5.17 Disposition hold**

With a disposition hold the user specifies which entities will not be a part of the review process.

The operations to work with disposition hold are described in more detail below.

### **5.17.1 Entities disposition holds read**

Operation reads entities disposition holds.

### Request

**GET archives/{archiveId}/disposition\_holds.json**

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DispositionHoldsResponse](#)

### Response status

200 – Entities disposition holds read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

**Example of the entities disposition holds read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/disposition\_holds.json

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```

{
  "disposition_holds" : [{
    "accessed" : "2015-10-14T14:20:23.183+02:00",
    "created" : "2015-09-24T14:40:16.632+02:00",
    "modified" : "2015-10-14T14:20:23.184+02:00",
    "description" : "Description of hold for permanent entitites",
    "id" : "DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhIeeGZY",
    "name" : "Permanent hold",
    "reason" : "Hold for permanent entitites",
    "creator" : {
      "id" : "johnsmith",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/johnsmith.json"
    }
  }, {
    "accessed" : "2015-11-26T08:47:17.459+02:00",
    "created" : "2015-11-26T08:47:17.459+02:00",
    "modified" : "2015-11-26T08:47:17.459+02:00",
    "description" : "Description of time limited hold for entities",
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4",
    "name" : "Time limited hold ",
    "reason" : "Hold for entities",
    "creator" : {
      "id" : "ronsalazar",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/ronsalazar.json"
    }
  }
]
}

```

**5.17.2 Entity disposition hold read**

Operation reads entity disposition hold.

Request**GET archives/{archiveId}/disposition\_holds/{id}.json**Request parameters

|    |        |   |
|----|--------|---|
| id | String | The unique identifier of the entity disposition hold. |
|----|--------|---|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DispositionHoldResponse](#)

### Response status

200 – Entity disposition hold read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## **Example of the entity disposition hold read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/disposition\_holds/  
DVAh3WDAb88J\_kLWrGGkQ0cn5aadklPV7RfvhleeGZY.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

```
{
  "disposition_hold" : {
    "accessed" : "2015-10-14T14:20:23.183+02:00",
    "created" : "2015-09-24T14:40:16.632+02:00",
    "modified" : "2015-10-14T14:20:23.184+02:00",
    "description" : "Description of hold for permanent entitites",
    "id" : "DVAh3WDAb88J_kLWrGGkQ0cn5aadklPV7RfvhleeGZY",
    "name" : "Permanent hold",
    "reason" : "Hold for permanent entitites",
    "creator" : {
      "id" : "marcowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }
}
```

### 5.17.3 Entity disposition hold audit log read

Operation reads entity disposition hold audit log.

#### Request

**GET archives/{archiveId}/disposition\_holds/{id}/audit\_log.json**

#### Request parameters

|    |        |   |
|----|--------|---|
| id | String | The unique identifier of the entity disposition hold. |
|----|--------|---|

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [AuditLog](#)

#### Response status

200 – Entity disposition hold audit log read successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

### **Example of the entity disposition hold audit log read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/disposition\_holds/  
DVAh3WDAb88J\_kLWrGGkQ0cn5aadkIPV7RfvhleeGZY/audit\_log.json

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

## Response

```
{
  "events" : [{
    "time" : "2015-09-24T12:40:16Z",
    "public_address" : "192.168.92.67",
    "type" : "PROPERTY_VALUE_CHANGE",
    "details" : "Changed properties: sys:Creator, sys:Title, sys:ret:hold:Reason",
    "user" : {
      "id" : "marchowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }, {
    "time" : "2015-09-24T12:40:16Z",
    "public_address" : "192.168.92.67",
    "type" : "ENTITY_SAVE",
    "user" : {
      "id" : "marcowelch",
      "uri" : "https://apps.imis.eu/scsvc/archives/IARC98/directory/marcowelch.json"
    }
  }
]
}
```

## 5.18 References

References link multiple entities.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### 5.18.1 References read

Operation reads entity references.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

#### Request

**GET archives/{archiveld}/entities/{id}/references.json**

and

**GET archives/{archiveld}/entities/{entityldKind}:{id}/references.json**

The set of entityldKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

## Response

See chapter [EntityReferencesResponse](#)

## Response status

200 – Entity references read successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity references read**

### Request

GET

<https://apps.imis.eu/scsvc/archives/IARC/entities/074EUo9JWNKvB2YacYE3VHZ4U4s8EM6o/references.json>

### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

### Response

```
{
  "references": [{
    "id": "6Y-n-5xVzgFVaseKjoYDfoUilZUK9StU",
    "title": "",
    "entities": [{
      "accessed": "2018-12-03T13:56:39.000Z",
      "aip": true,
      "child_classification_code_generated": true,
      "child_count": 6,
      "classification_code": "C=03",
      "created": "2018-11-13T12:27:00.000Z",
      "creator": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "description": "Supply planning and scheduling records",
      "draft": false,
      "effective_rights": {
        "create_references": true,
        "create_sub_entities": true,
        "change_retention": true,
        "change_rights": true,
        "change_security_class": true,
        "change_status": true,
        "delete_access": true,
        "move_access": true,

```

```

        "read_access": true,
        "write_access": true
    },
    "external_ids": [],
    "has_draft": false,
    "has_references": true,
    "has_versions": false,
    "id": "wm8DyC4mb9rzB6Dd5T6AZ6Lh4xEpXcVI",
    "keywords": [],
    "modified": "2018-12-03T13:05:11.000Z",
    "modified_by": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "
https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
    },
    "opened": "2018-11-23T07:19:06.000Z",
    "permanent": false,
    "properties": [],
    "public_classification_code": "03",
    "retention": {
        "policies": [{
            "id": "5CobtV-H1DNFXeph2W3lGEafgazOvtfp",
            "name": "10 years",
            "description": "Dispose after 10 years retention",
            "explicit_context": {
                "scope": "ALLOW",
                "filter": {
                    "classes": true,
                    "folders": true,
                    "documents": true
                }
            },
            "effective": true
        }],
        "inherited_context": []
    }, {
        "id": "6tYEePqNjXQcdXj1XqdO14IREiQxQfZJ",
        "name": "Permanent",
        "description": "Permanent retention",
        "explicit_context": {
            "scope": "ALLOW",
            "filter": {
                "classes": true,
                "folders": true,
                "documents": true
            }
        },
        "effective": true
    },
    "inherited_context": []
    ],
    "disposition_holds": [{
        "id": "7i4QHR5OcoMJzyr8EglUp5wGr3TSO0ez",
        "name": "Legal procedure",
        "description": "Legal procedure in progress, material must be
preserved until finished",
        "inherited": false
    }
    ],
    "security_class": {
        "inherited": false
    },
    "significance": {
        "inherited": false
    },
    "status": {
        "inherited": true,

```

```

        "value": "Opened"
      },
      "sub_entity_templates": [{
        "id": "Class",
        "label": "Class",
        "entity_type": "CLASS"
      }
    ],
    "template": {
      "id": "Class",
      "label": "Class",
      "entity_type": "CLASS"
    },
    "title": "Supply Chain management",
    "type": "CLASS"
  }
],
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"created": "2018-12-03T10:09:19.000Z",
"creator": {
  "id": "kclay",
  "email": "keira.clay@acme.com",
  "first_name": "Keira",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/kclay/avatar",
  "last_name": "Clay",
  "type": "USER"
}
}
]
}

```

## 5.18.2 Reference read

Operation reads entity reference.

Compatibility: IMiS®/ARCHive Server 9.9 or higher.

### Request

**GET archives/{archiveId}/entities/{id}/references/{referenceId}.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/references/{referenceId}.json**

The set of entityIdKind values: C, E, I.

### Request header

Authorization: Bearer [session token]



## Response

See chapter [EntityReferenceResponse](#)

## Response status

200 – Entity reference read successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity reference read**

### Request

GET

https://apps.imis.eu/scsvc/archives/IARC/entities/074EUo9JWNKvB2YacYE3VHZ4U4s8EM6  
o/references/6Y-n-5xVzgFVAseKjoYDfoUilZUK9StU.json

### Request header

Authorization: Bearer 7tOHfCpest56jfrt2rB6jUvDvKXJaBuHEFE00C2t

### Response

```
{
  "reference": {
    "id": "6Y-n-5xVzgFVAseKjoYDfoUilZUK9StU",
    "title": "",
    "entities": [{
      "accessed": "2018-12-03T13:56:39.000Z",
      "aip": true,
      "child_classification_code_generated": true,
      "child_count": 6,
      "classification_code": "C=03",
      "created": "2018-11-13T12:27:00.000Z",
      "creator": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "description": "Supply planning and scheduling records",
      "draft": false,
      "effective_rights": {
        "create_references": true,
        "create_sub_entities": true,
        "change_retention": true,
        "change_rights": true,
        "change_security_class": true,
        "change_status": true,
        "delete_access": true,
        "move_access": true,

```

```

        "read_access": true,
        "write_access": true
    },
    "external_ids": [],
    "has_draft": false,
    "has_references": true,
    "has_versions": false,
    "id": "wm8DyC4mb9rzB6Dd5T6AZ6Lh4xEpXcVI",
    "keywords": [],
    "modified": "2018-12-03T13:05:11.000Z",
    "modified_by": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
    },
    "opened": "2018-11-23T07:19:06.000Z",
    "permanent": false,
    "properties": [],
    "public_classification_code": "03",
    "retention": {
        "policies": [{
            "id": "5CobtV-H1DNFXeph2W3lGEafgazOvtfp",
            "name": "10 years",
            "description": "Dispose after 10 years retention",
            "explicit_context": {
                "scope": "ALLOW",
                "filter": {
                    "classes": true,
                    "folders": true,
                    "documents": true
                }
            },
            "effective": true
        },
        {
            "id": "6tYEePqNjXQcdXj1Xqd014IREiQxQfZJ",
            "name": "Permanent",
            "description": "Permanent retention",
            "explicit_context": {
                "scope": "ALLOW",
                "filter": {
                    "classes": true,
                    "folders": true,
                    "documents": true
                }
            },
            "effective": true
        }
    ],
        "inherited_context": []
    },
    "disposition_holds": [{
        "id": "7i4QHR5OcoMJz8EglUp5wGr3TS00ez",
        "name": "Legal procedure",
        "description": "Legal procedure in progress, material must be preserved
until finished",
        "inherited": false
    }
    ],
    "security_class": {
        "inherited": false
    },
    "significance": {
        "inherited": false
    },
    "status": {
        "inherited": true,
        "value": "Opened"
    }

```

```

    },
    "sub_entity_templates": [{
      "id": "Class",
      "label": "Class",
      "entity_type": "CLASS"
    }
  ],
  "template": {
    "id": "Class",
    "label": "Class",
    "entity_type": "CLASS"
  },
  "title": "Supply Chain management",
  "type": "CLASS"
}
},
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"created": "2018-12-03T10:09:19.000Z",
"creator": {
  "id": "kclay",
  "email": "keira.clay@acme.com",
  "first_name": "Keira",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/kclay/avatar",
  "last_name": "Clay",
  "type": "USER"
}
}
}
}

```

### 5.18.3 Reference create

Operation creates a reference on a specific entity.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

#### Request

**POST** `archives/{archiveld}/entities/{id}/references.json`

and

**POST** `archives/{archiveld}/entities/{entityIdKind}:{id}/references.json`

The set of the entityIdKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

### Request

See chapter [EntityReferenceCreateRequest](#)

### Response

See chapter [EntityReferenceResponse](#)

### Response status

200 – Entity reference created successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity reference create**

### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/entities/wBOgix4oXioYPLbeBtBn65v21IViU4p5/references.json

### Request header

Authorization: Bearer 7tOHfCpest56jffRt2rB6jUvDvKXJaBuHEFE00C2t

Content-Type: application/json

### Request content

```
{
  "entries": [{
    "value": "0mCfj7KRpySLVoruVpyAzyStUhrQTuSZ"
  }]
}
```

### Response

```
{
  "reference": {
    "id": "0Qw3M94iEzVgMlkrmj-LL631fFUSlvAY",
    "title": "",
    "entities": [{
      "accessed": "2018-12-04T08:01:08.000Z",
      "aip": true,
      "child_classification_code_generated": true,
      "child_count": 2,
      "classification_code": "C=02^C=01",
      "created": "2018-11-13T12:26:59.000Z",
    }]
  }
}
```

```

"creator": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
},
"draft": false,
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"external_ids": [],
"has_draft": false,
"has_references": true,
"has_versions": false,
"id": "0mCfj7KRpySLVoruVpyAzyStUhRQTuSZ",
"keywords": [],
"modified": "2018-11-13T12:26:59.000Z",
"modified_by": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
},
"opened": "2018-11-13T12:26:59.000Z",
"parent_id": "074EUo9JWNKvB2YacYE3VHZ4U4s8EM6o",
"permanent": false,
"properties": [],
"public_classification_code": "02.01",
"retention": {
  "policies": [{
    "id": "5QU235hDXyEJ0uJ8_Z_XY-DWTaHK7cpR",
    "name": "10 years + National Archives",
    "description": "Transfer to National Archives for permanent archival",
    "inherited_context": [{
      "scope": "ALLOW",
      "filter": {
        "classes": true,
        "folders": true,
        "documents": true
      }
    }],
    "effective": true
  }
]
},
"disposition_holds": [],
"security_class": {
  "inherited": true,
  "value": "Confidential"
},
"significance": {
  "inherited": true
},
"status": {
  "inherited": true,
  "value": "Opened"
},

```

```

    "sub_entity_templates": [{
      "id": "Class",
      "label": "Class",
      "entity_type": "CLASS"
    }
  ],
  "template": {
    "id": "Class",
    "label": "Class",
    "entity_type": "CLASS"
  },
  "title": "Accounts Payable",
  "type": "CLASS"
}
},
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"created": "2018-12-04T12:15:30.000Z",
"creator": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}
}

```

### 5.18.4 Reference change

Operation changes an entity reference.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

#### Request

**PUT archives/{archiveId}/entities/{id}/references/{referenceId}.json**

**PUT archives/{archiveId}/entities/{entityIdKind}:{id}/references/{referenceId}.json**

The set of entityIdKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

### Request

See chapter [EntityReferenceCreateRequest](#)

### Response

See chapter [EntityReferenceResponse](#)

### Response status

200 – Entity reference updated successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity reference update**

### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/entities/OmCfj7KRpySLVoruVpyAzyStUhRQTuSZ/references/OQw3M94iEzVgMlkrmj-LL63IfFUSivAY.json

### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

Content-Type: application/json

### Request content

```
{
  "title": "Reference title",
  "description": "reference description",
  "entries": [{
    "value": "wBOgix4oXioYPLbeBtBn65v211ViU4p5"
  }]
}
```

**Response**

```

{
  "reference": {
    "id": "0Qw3M94iEzVgMlkrmj-LL631fFUSlvAY",
    "title": "Reference title",
    "description": "reference description",
    "entities": [{
      "accessed": "2018-11-30T11:01:52.000Z",
      "aip": true,
      "child_classification_code_generated": true,
      "child_count": 2,
      "classification_code": "C=02^C=05",
      "created": "2018-11-13T12:27:00.000Z",
      "creator": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "draft": false,
      "effective_rights": {
        "create_references": true,
        "create_sub_entities": true,
        "change_retention": true,
        "change_rights": true,
        "change_security_class": true,
        "change_status": true,
        "delete_access": true,
        "move_access": true,
        "read_access": true,
        "write_access": true
      },
      "external_ids": [],
      "has_draft": false,
      "has_references": true,
      "has_versions": false,
      "id": "wBOgix4oXioYPLbeBtBn65v211ViU4p5",
      "keywords": [],
      "modified": "2018-11-13T12:27:00.000Z",
      "modified_by": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "opened": "2018-11-13T12:27:00.000Z",
      "parent_id": "074EUo9JWNKvB2YacYE3VHZ4U4s8EM6o",
      "permanent": false,
      "properties": [],
      "public_classification_code": "02.05",
      "retention": {
        "policies": [{
          "id": "5QU235hDXyEJ0uJ8_Z_XY-DWTaHK7cpR",
          "name": "10 years + National Archives",
          "description": "Transfer to National Archives for permanent archival",
          "inherited_context": [{
            "scope": "ALLOW",
            "filter": {
              "classes": true,
              "folders": true,
              "documents": true
            },
            "effective": true
          }
        ]
      }
    ]
  }
}

```



```
    ]
  },
  "disposition_holds": []
},
"security_class": {
  "inherited": true,
  "value": "Confidential"
},
"significance": {
  "inherited": true
},
"status": {
  "inherited": true,
  "value": "Opened"
},
"sub_entity_templates": [{
  "id": "Class",
  "label": "Class",
  "entity_type": "CLASS"
}
],
"template": {
  "id": "Class",
  "label": "Class",
  "entity_type": "CLASS"
},
"title": "Payments",
"type": "CLASS"
}
],
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"created": "2018-12-04T12:15:30.000Z",
"creator": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}
}
```

## 5.18.5 Reference delete

Operation deletes an entity reference.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### Request

**DELETE archives/{archiveld}/entities/{id}/references/{referenceld}.json**

and

**DELETE archives/{archiveld}/entities/{entityIdKind}:{id}/references/{referenceld}.json**

The set of entityIdKind values: C, E, I.

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity reference deleted successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity reference delete**

### Request

DELETE

<https://apps.imis.eu/scsvc/archives/IARC/entities/OmCfj7KRpySLVoruVpyAzyStUhrQTuSZ/references/OQw3M94iEzVgMlkrmj-LL63IfFUSlvAY.json>

### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

### Response status

200 – Entity reference deleted successfully.

## 5.19 Versioning

The versioning of entities enables the reading of all entity versions, creating, and checking out and checking in an entity draft. Creating a new entity version is done by creating a draft that can be modified and by checking out the draft which creates a new entity version. Versioning is defined by a template, in which specific properties enable versioning and can be modified in drafts. Each version has a sequence version number, with which we can read, edit, delete and check out drafts from a specific version. Compatibility: IMiS®/ARCHive Server 9.9 or higher.

### 5.19.1 Version read

Operation reads entity versions.

Compatibility: IMiS®/ARCHive Server 9.9 or higher.

#### Request

**GET archives/{archiveId}/entities/{id}/versions.json**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/versions.json**

The set of entityIdKind values: C, E, I, H.

#### Request parameters

|        |        |   |
|--------|--------|---|
| fields | String | <p>Defines the fields in the reply.</p> <p><i>Example:</i></p> <p>versions (id, title, modified, modified_by ,effective_rights, classification_code, public_classification_code,closed, permanent, type, has_draft, parent_id, check_in_comment, version, version_label).</p> |
|--------|--------|---|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [VersionsResponse](#)

### Response status

200 – Entity versions read successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity version read**

### Request

GET

https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6\_zVuYalvI\_u\_Dm2IYlwBDVKaDSw/versions.json

### Request header

Authorization: Bearer 7tOHfCpest56jffRt2rB6jUvDvKXJaBuHEFE00C2t

### Response

```
{
  "versions": [{
    "accessed": "2018-12-04T12:33:26.000Z",
    "aip": true,
    "categories": [],
    "check_in_comment": null,
    "child_classification_code_generated": null,
    "child_count": 0,
    "classification_code": "C=04^C=04^F=2018-000003^D=000002",
    "closed": null,
    "created": "2018-11-29T10:56:37.000Z",
    "creator": {
      "id": "admin",
      "uri": null,
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "description": null,
    "draft": false,
    "draft_creator": null,
  }
  ]
}
```

```

"draft_id": null,
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"external_ids": [],
"has_draft": false,
"has_references": false,
"has_versions": true,
"id": "aLZs6_zVuYaIvI_u_Dm2lYIwBDVKaDSw",
"keywords": [],
"links": null,
"modified": "2018-12-04T11:14:13.000Z",
"modified_by": {
  "id": "admin",
  "uri": null,
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
},
"opened": null,
"owner": null,
"parent_id": "0Q2gCohiZi5afOxHHaGrx2zkMDXRmiUV",
"permanent": false,
"properties": [],
"public_classification_code": "04.04-2018-000003/000002",
"retention": null,
"security_class": {
  "inherited": true,
  "value": "Confidential"
},
"significance": {
  "inherited": true,
  "value": null
},
"status": null,
"sub_entity_templates": [],
"template": {
  "id": "FiledDocument",
  "uri": null,
  "label": "Filed document",
  "entity_type": "DOCUMENT"
},
"title": "Doc 02",
"type": "DOCUMENT",
"version": 4,
"version_label": "2.2"
}, {
"accessed": "2018-12-04T11:11:39.000Z",
"aip": true,
"categories": [],
"check_in_comment": null,
"child_classification_code_generated": null,
"child_count": 0,
"classification_code": "C=04^C=04^F=2018-000003^D=000002",
"closed": null,
"created": "2018-11-29T10:56:37.000Z",
"creator": {
  "id": "admin",
  "uri": null,
  "email": "admin@acme.com",

```

```

    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  },
  "description": null,
  "draft": false,
  "draft_creator": null,
  "draft_id": null,
  "effective_rights": {
    "create_references": true,
    "create_sub_entities": true,
    "change_retention": true,
    "change_rights": true,
    "change_security_class": true,
    "change_status": true,
    "delete_access": true,
    "move_access": true,
    "read_access": true,
    "write_access": true
  },
  "external_ids": [],
  "has_draft": false,
  "has_references": false,
  "has_versions": true,
  "id": "aLZs6_zVuYaIvI_u_Dm2lYIwBDVKaDSw",
  "keywords": [],
  "links": null,
  "modified": "2018-12-04T11:03:16.000Z",
  "modified_by": {
    "id": "admin",
    "uri": null,
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  },
  "opened": null,
  "owner": null,
  "parent_id": "0Q2gCohiZi5afOxHHaGrx2zkMDXRmiUV",
  "permanent": false,
  "properties": [],
  "public_classification_code": "04.04-2018-000003/000002",
  "retention": null,
  "security_class": {
    "inherited": true,
    "value": "Confidential"
  },
  "significance": {
    "inherited": true,
    "value": null
  },
  "status": null,
  "sub_entity_templates": [],
  "template": {
    "id": "FiledDocument",
    "uri": null,
    "label": "Filed document",
    "entity_type": "DOCUMENT"
  },
  "title": "Doc 02",
  "type": "DOCUMENT",
  "version": 3,
  "version_label": "2.1"
}, {
  "accessed": "2018-12-04T11:03:13.000Z",
  "aip": true,
  "categories": [],
  "check_in_comment": null,
  "child_classification_code_generated": null,

```

```
"child_count": 0,
"classification_code": "C=04^C=04^F=2018-000003^D=000002",
"closed": null,
"created": "2018-11-29T10:56:37.000Z",
"creator": {
  "id": "admin",
  "uri": null,
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
},
"description": null,
"draft": false,
"draft_creator": null,
"draft_id": null,
"effective_rights": {
  "create_references": true,
  "create_sub_entities": true,
  "change_retention": true,
  "change_rights": true,
  "change_security_class": true,
  "change_status": true,
  "delete_access": true,
  "move_access": true,
  "read_access": true,
  "write_access": true
},
"external_ids": [],
"has_draft": false,
"has_references": false,
"has_versions": true,
"id": "aLZs6_zVuYaIvI_u_Dm2lYIwBDVKaDSw",
"keywords": [],
"links": null,
"modified": "2018-12-04T11:02:59.000Z",
"modified_by": {
  "id": "admin",
  "uri": null,
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
},
"opened": null,
"owner": null,
"parent_id": "0Q2gCohiZi5afOxHHaGrx2zkMDXRmiUV",
"permanent": false,
"properties": [],
"public_classification_code": "04.04-2018-000003/000002",
"retention": null,
"security_class": {
  "inherited": true,
  "value": "Confidential"
},
"significance": {
  "inherited": true,
  "value": null
},
"status": null,
"sub_entity_templates": [],
"template": {
  "id": "FiledDocument",
  "uri": null,
  "label": "Filed document",
  "entity_type": "DOCUMENT"
},
"title": "Doc 02",
"type": "DOCUMENT",
```

```

    "version": 2,
    "version_label": "2"
  }, {
    "accessed": "2018-12-04T11:02:56.000Z",
    "aip": true,
    "categories": [],
    "check_in_comment": null,
    "child_classification_code_generated": null,
    "child_count": 0,
    "classification_code": "C=04^C=04^F=2018-000003^D=000002",
    "closed": null,
    "created": "2018-11-29T10:56:37.000Z",
    "creator": {
      "id": "admin",
      "uri": null,
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvs/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "description": null,
    "draft": false,
    "draft_creator": null,
    "draft_id": null,
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,
      "change_rights": true,
      "change_security_class": true,
      "change_status": true,
      "delete_access": true,
      "move_access": true,
      "read_access": true,
      "write_access": true
    },
    "external_ids": [],
    "has_draft": false,
    "has_references": false,
    "has_versions": true,
    "id": "aLZs6_zVuYaIvI_u_Dm2lYIwBDVKaDSw",
    "keywords": [],
    "links": null,
    "modified": "2018-11-29T10:56:37.000Z",
    "modified_by": {
      "id": "admin",
      "uri": null,
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvs/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "opened": null,
    "owner": null,
    "parent_id": "0Q2gCohiZi5af0xHHaGrx2zkMDXRmiUV",
    "permanent": false,
    "properties": [],
    "public_classification_code": "04.04-2018-000003/000002",
    "retention": null,
    "security_class": {
      "inherited": true,
      "value": "Confidential"
    },
    "significance": {
      "inherited": true,
      "value": null
    },
    "status": null,
    "sub_entity_templates": [],

```



```

    "template": {
      "id": "FiledDocument",
      "uri": null,
      "label": "Filed document",
      "entity_type": "DOCUMENT"
    },
    "title": "Doc 02",
    "type": "DOCUMENT",
    "version": 1,
    "version_label": "1"
  }
]
}

```

## 5.19.2 Drafts read

Operation read drafts.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### Request

#### **GET archives/{archiveId}/drafts.json**

### Request header

Authorization: Bearer [session token]

### Request parameters

If no filter has been set, the basic draft information is *id*, *title*, *description*, *type*, *classification\_code*, *public\_classification\_code*, *status*, and the links of the *entity* and *entity:stub* type.

|            |         |   |
|------------|---------|---|
| page_start | Int     | The beginning of the page (optional).   |
| page_size  | Int     | The size of the page (optional).  |
| refresh    | Boolean | If value is <i>true</i> than entity information is created again; otherwise information is created only first time (optional). Parameter is taken into the account when page_start in page_size parameters are present. |

|                     |        |  |
|---------------------|--------|--|
| sort                | String | The sort key of the collection (optional).<br>The set of values:<br>- sys:Title: The title of the draft.<br>- sys:Creator: The creator of the draft.<br>- sys:Owner: The owner of the draft.<br>- The unique identifier of the property. |
| sort_order          | String | The sort order of the collection (optional). Valid only if the »sort« parameter exists.<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending.  |
| category_properties | String | The property used to request the categorization of the draft collection. The value enables multiple values, separated by the character " , " (optional). The response provides a list of potential categories by properties.             |
| category            | String | The category of the entity collection. The value represents the category to which the entities belong (optional).  |
| fields              | String | Defines the fields in the reply.<br><i>Example:</i><br>size, categories, page_size, page_start, entities (id, title, modified, source_id, description, effective_rights, parent_id, type, has_draft).                                    |
| handle              | String | Collection handle.   |

### Response

See chapter [DraftsResponse](#)

### Response status

200 – Entity drafts read successfully.

401 – Invalid session.

500 - Server error.

### **Example of the entity drafts read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/drafts.json

### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

### Response

```
{
  "size": 3,
  "entities": [{
    "id": "EmVprsfM4_xYkThXI8ojTfpY9kRZZNM",
    "title": "Supervisor act",
    "type": "DOCUMENT"
  }, {
    "description": "2018 documents",
    "id": "HAP2mq250TqdeOjDPht7O26_5UvMkz-",
    "title": "ISO document 6500",
    "type": "DOCUMENT"
  }, {
    "id": "8PWiq53FDiysa-QgQ6nmWRxkYMPTACI3",
    "title": "Great document",
    "type": "DOCUMENT"
  }
  ],
  "categories": []
}
```

## 5.19.3 Draft public information read

Operation reads draft public information.

### Request

**GET** `archives/{archiveId}/drafts/{id}/stub.json`

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DraftStubResponse](#)

**Example of the draft public information read**Request

GET <https://apps.imis.eu/scsvc/archives/IARC/drafts/7AulpwC-E9FNjS-HJo6Ew7zjC6gr2ACc/stub.json>

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

```
{
  "draft_stub": {
    "accessed": "2019-05-06T12:12:26.922Z",
    "created": "2019-04-30T13:14:21.625Z",
    "description": "opis dokumenta",
    "modified": "2019-05-06T12:12:30.857Z",
    "modified_by": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "title": "Dokument 621",
    "id": "7AuIpwC-E9FNjS-HJo6Ew7zjC6gr2ACc",
    "properties": [
      {
        "id": "attr:stringmax",
        "label": "stringmax",
        "description": "",
        "type": "STRINGMAX",
        "options": {
          "append_only": false,
          "included_in_aip": false,
          "inherited": false,
          "multi_value": false,
          "non_empty": false,
          "pick_list": false,
          "public": true,
          "read_only": false,
          "read_only_after_check_in": false,
          "read_only_after_create": false,
          "required": false,
          "searchable": false,
          "unique": false,
          "versionable": false
        },
        "values": [],
        "inherited": false
      }
    ],
    "keywords": [
      "new"
    ],
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,

```

```

"change_rights": true,
"change_security_class": true,
"change_status": true,
"delete_access": true,
"move_access": true,
"read_access": true,
"write_access": true
},
"creator": {
  "id": "jturner",
  "email": "jerry.turner@acme.com",
  "first_name": "Jerry",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/jturner/avatar",
  "last_name": "Turner",
  "type": "USER"
},
"owner": {
  "id": "jturner",
  "email": "jerry.turner@acme.com",
  "first_name": "Jerry",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/jturner/avatar",
  "last_name": "Turner",
  "type": "USER"
},
"template": {
  "id": "Document",
  "label": "Document",
  "entity_type": "DOCUMENT"
},
"categories": [
  "cat"
],
"type": "DOCUMENT",
"source_id": "J1yC3xc-neNW2o44OD1pRWHpjkqhbEZQ"
}
}

```

### 5.19.4 Check out draft

Operation creates draft.

Compatibility: IMiS®/ARCHive Server 9.9 or higher.

#### Request

**POST archives/{archiveId}/entities/{id}/check\_out.json**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/check\_out.json**

The set of entityIdKind values: C, E, I.

#### Request parameters

|         |         |                                |
|---------|---------|--------------------------------|
| version | Integer | Entity version (optional).     |
| reason  | String  | The reason to check out draft. |



### Request header

Authorization: Bearer [session token]

### Response

See chapter [EntityStubResponse](#)

### Response status

200 – Entity draft created successfully.

401 – Invalid session.

500 - Server error.

### **Example of the entity draft check out**

POST

[https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6\\_zVuYalvI\\_u\\_Dm2IYlwBDVKaDSw/check\\_out.json](https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6_zVuYalvI_u_Dm2IYlwBDVKaDSw/check_out.json)

### Request header

Authorization: Bearer 7tOHfCpest56jfrt2rB6jUvDvKXJaBuHEFE00C2t

Content-Type: application/json

### Response

```
{
  "entity_stub": {
    "accessed": "2018-12-04T12:42:16.000Z",
    "aip": false,
    "categories": [],
    "child_count": 0,
    "created": "2018-12-04T12:42:16.000Z",
    "creator": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "draft": true,
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,
      "change_rights": true,
      "change_security_class": true,
      "change_status": true,
      "delete_access": true,
    }
  }
}
```

```

        "move_access": true,
        "read_access": true,
        "write_access": true
    },
    "external_ids": [],
    "has_draft": false,
    "has_references": false,
    "has_versions": false,
    "id": "0AcjeLqDLCyQDkT4BLpZK1ItDkYRVoCI",
    "keywords": [],
    "modified": "2018-12-04T12:42:16.000Z",
    "modified_by": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
    },
    "owner": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
    },
    "parent_id": "CH1FvxGctDeOoZo870XnQiXLr770QMch",
    "permanent": false,
    "properties": [],
    "security_class": {
        "inherited": true
    },
    "sub_entity_templates": [],
    "template": {
        "id": "FiledDocument",
        "label": "Filed document",
        "entity_type": "DOCUMENT"
    },
    "title": "Doc 02",
    "type": "DOCUMENT"
}
}

```

### 5.19.5 Check in draft

Operation checks in a draft. Changes to the draft will be saved to the entity from which the draft was created.

Compatibility: IMiS®/ARCHive Server 9.9 or higher.

#### Request

#### POST archives/{archiveId}/drafts/{id}/check\_in.json

#### Request parameters

|        |        |                               |
|--------|--------|-------------------------------|
| reason | String | The reason to check in draft. |
|--------|--------|-------------------------------|



### Request header

Authorization: Bearer [session token]

### Request content

See chapter [EntityCheckInRequest](#)

### Response

See chapter [EntityStubResponse](#)

### Response status

200 – Entity draft checked-in successfully.

401 – Invalid session.

500 - Server error.

## **Example of the entity draft check in**

### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/drafts/OAcjeLqDLCyQDkT4BLpZKIItDkYRVoCI/check\_in.json

### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

Content-Type: application/json

### Request header

```
{
  "check_in": {
    "position": 1
  }
}
```

**Response**

```

{
  "entity_stub": {
    "aip": true,
    "categories": [],
    "child_count": 0,
    "classification_code": "C=04^C=04^F=2018-000003^D=000002",
    "created": "2018-11-29T10:56:37.000Z",
    "creator": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "draft": false,
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,
      "change_rights": true,
      "change_security_class": true,
      "change_status": true,
      "delete_access": true,
      "move_access": true,
      "read_access": true,
      "write_access": true
    },
    "external_ids": [],
    "has_draft": false,
    "has_references": false,
    "has_versions": true,
    "id": "aLZs6_zVuYaIvI_u_Dm2lYIwBDVKaDSw",
    "keywords": [],
    "modified": "2018-12-04T12:45:16.000Z",
    "modified_by": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "parent_id": "0Q2gCohiZi5afOxHHaGrx2zkMDXRmiUV",
    "permanent": false,
    "properties": [],
    "public_classification_code": "04.04-2018-000003/000002",
    "security_class": {
      "inherited": true,
      "value": "Confidential"
    },
    "significance": {
      "inherited": true
    },
    "sub_entity_templates": [],
    "template": {
      "id": "FiledDocument",
      "label": "Filed document",
      "entity_type": "DOCUMENT"
    },
    "title": "Doc 02",
    "type": "DOCUMENT",
    "version": 5,
    "version_label": "2.3"
  }
}

```

## 5.19.6 Discard draft

Operation discards a draft.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### Request

#### **POST archives/{archiveId}/drafts/{id}/discard.json**

### Request parameters

|        |        |                              |
|--------|--------|------------------------------|
| reason | String | The reason to discard draft. |
|--------|--------|------------------------------|

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity draft discarded successfully.

401 – Invalid session.

500 - Server error.

### **Example of the entity draft discard**

#### Request

POST https://apps.imis.eu/scsvc/archives/IARC/drafts/12TZHZh0-R3BsplLxcHEDOVdIL-s579B/discard.json

#### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

Content-Type: application/json

#### Response status

200 – Entity draft discarded successfully.

## 5.19.7 Draft open for reading

The operation opens a draft for reading and returns a The unique identifier of the open draft, which carries out different operations (where the value of *idType* can equal H).

### Request

#### **GET archives/{archiveId}/drafts/{id}/open.json**

### Request parameters

|        |        |                                       |
|--------|--------|---------------------------------------|
| reason | String | The reason to open draft for reading. |
|--------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token]

### Response status

200 – Entity draft opened successfully.

401 – Invalid session.

500 - Server error.

## 5.19.8 Draft open for editing

The operation opens a draft for editing and returns a The unique identifier of the open draft, which carries out different operations (where the value of *idType* can equal H).

### Request

#### **GET archives/{archiveId}/drafts/{id}/edit.json**

### Request parameters

|        |        |                                       |
|--------|--------|---------------------------------------|
| reason | String | The reason to open draft for editing. |
|--------|--------|---------------------------------------|

### Request header

Authorization: Bearer [session token]

### Response

See chapter [EntityOpenResponse](#)

### Response status

200 – Entity draft opened successfully.

401 – Invalid session.

500 - Server error.

## **5.19.9 Draft close**

The operation closes an open draft, which is closed with the unique identifier acquired when opening for reading or editing. In the close operation, the response is without content; the success of the operation is demonstrated with the status of the response.

### Request

**GET archives/{archiveId}/drafts/{id}/close.json**

### Request header

Authorization: Bearer [session token]

### Response status

200 – Open entity draft closed successfully.

401 – Invalid session.

404 – Object does not exist.

500 - Server error.

## 5.19.10 Draft read

Operation reads a draft.

Compatibility: IMiS®/ARChive Server 9.9 or higher.

### Request

**GET archives/{archiveId}/drafts/{id}.json**

and

**GET archives/{archiveId}/drafts/{idType}:{id}.json**

The set of IdType values: H, I.

### Request parameters

|           |         |   |
|-----------|---------|---|
| flat      | Boolean | Specifies whether the response shows child objects as a flat list. (optional; default value: false).    |
| max_level | Integer | Specifies the level of child objects only if tree = true, default value = 0 (show all).                 |
| reason    | String  | The reason to open draft.   |
| tree      | Boolean | Specifies whether the response shows child objects as a tree structure (optional; default value: true). |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [DraftResponse](#)

### Response status

200 –Entity draft read successfully.

401 – Invalid session.

500 - Server error.

### 5.19.11 Draft change

Operation changes an entity draft.

#### Request

**PUT archives/{archiveId}/drafts/{id}.json**

and

**PUT archives/{archiveId}/drafts/{idType}:{id}.json**

The set of IdType values: H, I.

#### Request header

Authorization: Bearer [session token]

#### Request parameters

|           |         |   |
|-----------|---------|---|
| flat      | Boolean | Specifies whether the response shows child objects as a flat list. (optional; default value: false).    |
| max_level | Integer | Specifies the level of child objects only if tree = true, default value = 0 (show all).                 |
| reason    | String  | The reason to open draft.   |
| tree      | Boolean | Specifies whether the response shows child objects as a tree structure (optional; default value: true). |

#### Request content

See chapter [DraftUpdateRequest](#)

#### Response

See chapter [DraftResponse](#)

#### Response status

200 – Entity draft updated successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

## Example of the entity draft update

### Request

PUT https://apps.imis.eu/scsvc/archives/IARC/drafts/H:WhTLFYw4wVjDPGng.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Request content

```
{
  "draft_update": {
    "title": "Company documentation 1.1"
  }
}
```

### Response

```
{
  "draft": {
    "accessed": "2019-05-06T07:21:50.097Z",
    "created": "2019-04-30T13:14:21.625Z",
    "description": "opis dokumenta",
    "modified": "2019-05-06T12:12:30.857Z",
    "modified_by": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "last_name": "Administrator",
      "type": "USER"
    },
    "title": "Company documentation 1.1",
    "id": "7AuIpwC-E9FNjS-HJo6Ew7zjC6gr2ACc",
    "properties": [],
    "keywords": [],
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,
      "change_rights": true,
      "change_security_class": true,
      "change_status": true,
      "delete_access": true,
      "move_access": true,
      "read_access": true,
      "write_access": true
    },
    "creator": {
      "id": "jturner",
      "email": "jerry.turner@acme.com",
      "first_name": "Jerry",
      "last_name": "Turner",
      "type": "USER"
    },
    "owner": {
      "id": "jturner",
      "email": "jerry.turner@acme.com",
      "first_name": "Jerry",
      "last_name": "Turner",
      "type": "USER"
    }
  }
}
```



```

    },
    "template": {
      "id": "Document",
      "label": "Document",
      "entity_type": "DOCUMENT"
    },
    "categories": [],
    "type": "DOCUMENT",
    "source_id": "JlyC3xc-neNW2o44OD1pRWHpjkqhbEZQ",
    "physical_properties": {},
    "content_options": [
      {
        "read_only": false,
        "read_only_after_create": false,
        "read_only_after_check_in": false,
        "public": false,
        "versionable": true
      }
    ],
    "objects": [
      {
        "id": "HULWPF83yi45P7hI5mq7cfwlWlllagdR",
        "description": "Budget Tracking Template.xlsx",
        "size": 81413,
        "created": "2019-04-30T13:14:21.629Z",
        "accessed": "2019-04-30T13:14:21.629Z",
        "modified": "2019-04-30T13:14:21.629Z",
        "content_type": "application/vnd.openxmlformats-officedocument.spreadsheetml.sheet",
        "extension": ".xlsx",
        "child_count": 0,
        "signed": false,
        "indexed": false,
        "children": []
      }
    ]
  }
}

```

## 5.19.12 Draft access rights read

Operation reads entity draft access rights.

### Request

**GET archives/{archiveId}/drafts/{id}/acl.json**

and

**GET archives/{archiveId}/drafts/{idType}:{id}/acl.json**

The set of IdType values: H, I.

See chapter [Entity access right read](#)

### 5.19.13 Draft access rights read for each directory entity

Operation reads a draft access rights for each directory entity.

Request

**GET archives/{archiveId}/drafts/{id}/access.json**

See chapter [Entity access rights read for each directory entity](#)

### 5.19.14 Draft access rights create

Operation creates draft access rights.

Request

**POST archives/{archiveId}/drafts/{id}/acl.json**

and

**POST archives/{archiveId}/drafts/{idType}:{id}/acl.json**

The set of IdType values: H, I.

See chapter [Entity access rights create](#).

### 5.19.15 Draft access right change

Operation changes draft explicit access right.

Request

**PUT archives/{archiveId}/drafts/{id}/acl/{entryId}.json**

and

**PUT archives/{archiveId}/drafts/{idType}:{id}/acl/{entryId}.json**

The set of IdType values: H, I.

See chapter [Entity access right change](#)

### 5.19.16 Draft property access right change

Operation changes draft property explicit access right.

#### Request

**PUT archives/{archiveId}/drafts/{id}/acl/{propertyName}/{entryId}.json**

and

**PUT archives/{archiveId}/drafts/{idType}:{id}/acl/{propertyName}/  
{entryId}.json**

The set of IdType values: H, I.

See chapter [Entity property access right change](#)

### 5.19.17 Draft access right delete

Operation deletes draft access right.

#### Request

**DELETE archives/{archiveId}/drafts/{id}/acl/{entryId}.json**

and

**DELETE archives/{archiveId}/drafts/{idType}:{id}/acl/{entryId}.json**

The set of IdType values: H, I.

See chapter [Entity access right delete](#)

### 5.19.18 Draft property access right delete

Operation deletes draft property access right.

#### Request

**DELETE** archives/{archiveId}/drafts/{id}/acl/{propertyName}/{entryId}.json

and

**DELETE** archives/{archiveId}/drafts/{idType}:{id}/acl/{propertyName}/{entryId}.json

The set of IdType values: H, I.

See chapter [Entity property access right delete](#).

### 5.19.19 Draft property public metadata read

Operation retrieves public metadata on an individual draft property.

#### Request

**GET** archives/{archiveId}/drafts/{id}/stub/property/{propertyId}.json

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [PropertyResponse](#)

#### Response status

200 – Property metadata read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

## 5.19.20 Draft property public value read

Operation retrieves the public value of an individual draft property.

### Request

**GET archives/{archiveId}/drafts/{id}/stub/property/{propertyId}**

and

**GET archives/{archiveId}/drafts/{id}/stub/property/{propertyId}/{index}**

*Note: In requests without the "index" parameter, the default value is 0.*

### Request header

Authorization: Bearer [session token]

### Response

Entity property value.

### Response status

200 – Property value read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

## 5.19.21 Draft property metadata read

Operation retrieves metadata on an individual draft property.

### Request

**GET archives/{archiveId}/drafts/{id}/property/{propertyId}.json**

and

**GET archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}.json**

The set of entityIdKind values: I, H.

Request parameters

|        |        |  |
|--------|--------|--|
| Reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Response

See chapter [PropertyResponse](#)

Response status

200 – Property metadata read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

## 5.19.22 Draft property value read

Operation retrieves the value of an individual draft property.

Request

**GET archives/{archiveId}/drafts/{id}/property/{propertyId}**

and

**GET archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}**

and

**GET archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}**

The set of entityIdKind values: I, H.

and

**GET archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: I, H.

*Note: In requests without the “index” parameter, the default value is 0.*

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Response

Entity property value.

Response status

200 – Property value read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

**5.19.23 Draft property value create**

Operation adds the value of an individual draft property to the end of the collection of values.

Request

**POST archives/{archiveId}/drafts/{id}/property/{propertyId}**

and

**POST archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}**

The set of entityIdKind values: I, H.

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Content-Type: [property type]

Request content

Property value.

Response

See chapter [PropertyResponse](#)

Response status

200 – Property value read successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

## 5.19.24 Draft property value change

Operation changes the value of an individual draft property at a given position within the collection of values.

Request

**PUT archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}**

and

**PUT archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: I, H.

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Content-Type: [property type]

Request content

Property value.



Response

See chapter [PropertyResponse](#)

Response status

200 – Property value saved successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

**5.19.25 Draft property value delete**

Operation deletes the value of an individual draft property at a given position within the collection of values.

Request

**DELETE archives/{archiveId}/drafts/{id}/property/{propertyId}/{index}**

and

**DELETE archives/{archiveId}/drafts/{entityIdKind}:{id}/property/{propertyId}/{index}**

The set of entityIdKind values: I, H.

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when “entityIdKind” value is not “H”). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Response status

200 – Property value deleted successfully.

401 – Invalid session.

404 – Metadata does not exist.

500 - Server error.

## 5.20 Entity import / export

Users with the “ImportExport” role can export the entire classification scheme or only individual parts. All the metadata and content objects are exported for each entity, and optionally also its audit log and additional metadata. The latter are not a part of the entity metadata and are used only in the archiving process.

Below is a description of operations for importing and exporting entities.

### 5.20.1 Export

Operation exports an entity.

#### Request

**POST archives/{archivelid}/export.zip**

and

**POST archives/{archivelid}/entities/{id}/export.zip**

and

**POST archives/{archivelid}/entities/{entityIdKind}:{id}/export.zip**

The set of entityIdKind values: C, E, I.

#### Request parameters

|                |         |  |
|----------------|---------|--|
| audit_log      | Boolean | Specifies whether the audit log of each entity is exported (default value: true).                  |
| classes        | Boolean | Specifies whether the Class-type entities are exported (default value: true).                      |
| documents      | Boolean | Specifies whether the Document-type entities are exported (default value: true).                   |
| evidence       | Boolean | Specifies whether the entity authenticity and integrity proofs are exported (default value: true). |
| export_parents | Boolean | Specifies whether the parent entities are exported (default value: true).                          |
| folders        | Boolean | Specifies whether the Folder-type entities are exported (default value: true).                     |
| recursive      | Boolean | Specifies whether the child entities are exported (default value: true).                           |



### Request header

Authorization: Bearer [session token]

### Request content (optional)

The dataset of additional metadata on export (XML).

### Response

The dataset of exported entities.

### ZIP file structure

ExportData/class\_x.xml

ExportData/class\_x\_audit.xml

ExportData/class\_x\_evidence.xml

ExportData/folder\_x.xml

ExportData/folder\_x\_audit.xml

ExportData/folder\_x\_evidence.xml

ExportData/document\_x.xml

ExportData/document\_x\_audit.xml

ExportData/document\_x\_evidence.xml

ExportData/document\_x\_y.bin

ExportData/retention\_and\_dispostion\_x.xml

ExportData/retention\_and\_dispostion\_x\_mandate\_y.format

ExportReport.txt

ExportReport.xml

### Response status

200 – Entities exported successfully.

401 – Invalid session.

500 - Server error.

### Example of the entity export

#### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6\_zVuYalvl\_u\_Dm2IYlwBDVKaDSw/export.zip?classes=false&folders=false&documents=true&audit\_log=false&recursive=false&export\_parents=false&evidence=false

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response

The dataset of exported entities.

## 5.20.2 Import

Operation imports an entity.

#### Request

**POST archives/{archiveId}/import.zip**

and

**POST archives/{archiveId}/entities/{id}/import.zip**

and

**POST archives/{archiveId}/entities/{entityIdKind}:{id}/import.zip**

The set of entityIdKind values: C, E, I.

#### Request header

Authorization: Bearer [session token]

Content-Type: **application/zip** or **application/x-zip-compressed**

#### Request content

The set of entity data (ZIP file).

### ZIP file structure

ExportData/class\_x.xml  
ExportData/class\_x\_audit.xml  
ExportData/class\_x\_evidence.xml  
ExportData/folder\_x.xml  
ExportData/folder\_x\_audit.xml  
ExportData/folder\_x\_evidence.xml  
ExportData/document\_x.xml  
ExportData/document\_x\_audit.xml  
ExportData/document\_x\_evidence.xml  
ExportData/document\_x\_y.bin  
ExportData/retention\_and\_dispostion\_x.xml  
ExportData/retention\_and\_dispostion\_x\_mandate\_y.format  
ExportReport.txt  
ExportReport.xml

### Response

No response content.

### Response status

200 – Entities exported successfully.  
401 – Invalid session.  
500 - Server error.

## **Example of the entity import**

### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6\_zVuYalvl\_u\_Dm2IYlwBDVKaDSw/import.zip

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: application/zip

Response

No response content.

Response status

200 – Entities imported successfully.

### 5.20.3 Export log read

Operation reads the entities export logs.

Request

**GET archives/{archiveId}/log/export.json**

Request header

Authorization: Bearer [session token]

Request parameters

If filter is not set, basic entity information are: *id*, *title*, *description*, *type*, *classification\_code*, *public\_classification\_code*, *status*, and links are of the type: *entity* and *entity:stub*.

|            |        |  |
|------------|--------|--|
| filter     | String | Filter defines the scope of the entity information (optional).<br>If the “fields” parameter has been sent, this parameter does not apply.<br>The set of values:<br>- all: All public information and links to the entities.<br>- links: Links to the entities.<br>- props: Public information on entity properties.<br>- templates: Templates for child entities creation. |
| page_start | Int    | The beginning of the page (optional).  |

|                     |         |   |
|---------------------|---------|---|
| page_size           | Int     | The size of the page (optional).  |
| refresh             | Boolean | If value is <i>true</i> than entity information is created again; otherwise information is created only first time (optional). Parameter is taken into the account when page_start in page_size parameters are present.   |
| sort                | String  | The sort key of the collection (optional).<br>The set of values:<br>- sys:Title: The title of the entity.<br>- sys:ClassificationCode: The classification code of the entity (default value).<br>- sys:Creator: The creator of the entity.<br>- sys:Owner: The owner of the entity.<br>- sys:Opened: Date and time of the entity status change to Opened.<br>- sys:SecurityClass: The security class of the entity.<br>- sys:Status: The status of the entity.<br>- sys:Significance: The significance of the entity.<br>- The unique identifier of the property. |
| sort_order          | String  | The sort order of the collection (optional). Valid only if the »sort« parameter exists.<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending.   |
| category_properties | String  | The property used to request the categorization of the entity collection. The value enables multiple values, separated by the character “ , ” (optional). The response provides a list of potential categories by properties.   |
| category            | String  | The category of the entity collection. The value represents the category to which the entities belong (optional).   |
| fields              | String  | Defines the fields in the reply.<br><i>Example:</i><br>entities (id, title, modified, classification_code, effective_rights, child_count, closed, permanent, public_classification_code, description, type, has_draft), page_size, page_start, size, categories.  |
| handle              | String  | Collection handle.  |

## Response

See chapter [EntitiesResponse](#)



Response status

200 – Entities read successfully.

401 – Invalid session.

500 - Server error.

**Example of the entities export log read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/log/export.json?pageStart=0&pageSize=2

Request header

Authorization: Bearer 7tOHfCpest56jffRt2rB6jUvDvKXJaBuHEFE00C2t

Response

```
{
  "size": 51,
  "page_start": 0,
  "page_size": 2,
  "entities": [
    {
      "classification_code": "C=sys^C=Logs^C=Export^D=0000000001",
      "description": "Export started at 2018-11-14T10:08:04.455+01:00",
      "id": "fRv0-_v1ybWEhbKUC1AYWXMxHVCltCxb",
      "public_classification_code": "sys.Logs.Export/0000000001",
      "status": {
        "inherited": false,
        "value": "Closed"
      },
      "title": "2018-11-14T10:08:04.455+01:00",
      "type": "DOCUMENT"
    },
    {
      "classification_code": "C=sys^C=Logs^C=Export^D=0000000002",
      "description": "Export started at 2018-11-14T10:52:08.918+01:00",
      "id": "ZdSOFQNCQRl-YnyR7QOV53aImXA_37x-",
      "public_classification_code": "sys.Logs.Export/0000000002",
      "status": {
        "inherited": false,
        "value": "Closed"
      },
      "title": "2018-11-14T10:52:08.918+01:00",
      "type": "DOCUMENT"
    }
  ],
  "categories": []
}
```

## 5.20.4 Import logs read

Operation reads the entities import logs.

### Request

#### **GET archives/{archiveId}/log/import.json**

### Request header

Authorization: Bearer [session token]

### Request parameters

If filter is not set, basic entity information are: *id*, *title*, *description*, *type*, *classification\_code*, *public\_classification\_code*, *status*, and links are of the type: *entity* and *entity:stub*.

|            |         |  |
|------------|---------|--|
| filter     | String  | Filter defines the scope of the entity information (optional).<br>If the “fields” parameter has been sent, this parameter does not apply.<br>The set of values:<br>- all: All public information and links to the entities.<br>- links: Links to the entities.<br>- props: Public information on entity properties.<br>- templates: Templates for child entities creation. |
| page_start | Int     | The beginning of the page (optional).  |
| page_size  | Int     | The size of the page (optional).   |
| refresh    | Boolean | If value is <i>true</i> than entity information is created again; otherwise information is created only first time (optional). Parameter is taken into the account when page_start in page_size parameters are present.  |

|                     |        |   |
|---------------------|--------|---|
| sort                | String | The sort key of the collection (optional).<br>The set of values:<br><ul style="list-style-type: none"> <li>- sys:Title: The title of the entity.</li> <li>- sys:ClassificationCode: The classification code of the entity (default value).</li> <li>- sys:Creator: The creator of the entity.</li> <li>- sys:Owner: The owner of the entity.</li> <li>- sys:Opened: Date and time of the entity status change to Opened.</li> <li>- sys:SecurityClass: The security class of the entity.</li> <li>- sys:Status: The status of the entity.</li> <li>- sys:Significance: The significance of the entity.</li> <li>- The unique identifier of the property.</li> </ul> |
| sort_order          | String | The sort order of the collection (optional). Valid only if the "sort" parameter exists.<br>The set of values:<br><ul style="list-style-type: none"> <li>- asc: Ascending (default value).</li> <li>- desc: Descending.</li> </ul>   |
| category_properties | String | The property used to request the categorization of the entity collection. The value enables multiple values, separated by the character " , " (optional). The response provides a list of potential categories by properties.   |
| category            | String | The category of the entity collection. The value represents the category to which the entities belong (optional).   |
| fields              | String | Defines the fields in the reply.<br>Example:<br>entities (id, title, modified, classification_code, effective_rights, child_count, closed, permanent, public_classification_code, description, type, has_draft), page_size, page_start, size, categories.   |
| handle              | String | Collection handle.  |

### Response

See chapter [EntitiesResponse](#)

### Response status

200 – Entities read successfully.

401 – Invalid session.

500 - Server error.

**Example of the entities import log read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/log/import.json?pageStart=0&pageSize=2

Request header

Authorization: Bearer 7tOHfCpest56jFrt2rB6jUvDvKXJaBuHEFE00C2t

Response

```
{
  "size": 24,
  "page_start": 0,
  "page_size": 2,
  "entities": [
    {
      "classification_code": "C=sys^C=Logs^C=Import^D=0000000001",
      "description": "Import started at 2018-11-21T14:00:54.2297695+01:00",
      "id": "dUhVISje_3Jd2z98s3jcp-1dXgq4F3EB",
      "public_classification_code": "sys.Logs.Import/0000000001",
      "status": {
        "inherited": false,
        "value": "Closed"
      },
      "title": "2018-11-21T14:00:54.2297695+01:00",
      "type": "DOCUMENT"
    },
    {
      "classification_code": "C=sys^C=Logs^C=Import^D=0000000002",
      "description": "Import started at 2018-11-21T14:03:30.0163403+01:00",
      "id": "Yfs4Ea4N9CE_ZMLxZQlJvhN99D2FWS6b",
      "public_classification_code": "sys.Logs.Import/0000000002",
      "status": {
        "inherited": false,
        "value": "Closed"
      },
      "title": "2018-11-21T14:03:30.0163403+01:00",
      "type": "DOCUMENT"
    }
  ],
  "categories": []
}
```

**5.20.5 Entity export in ASiC format**

The operation exports a given entity in the ASiC format of the interoperable form of content export with the associated authenticity evidence. Export in the ASiC format enables only the export of a single selected entity. The ASiC format is in the “Extended” form, where multiple evidence is possible for the exported contents. The basic information is available at

[https://en.wikipedia.org/wiki/Associated\\_Signature\\_Containers](https://en.wikipedia.org/wiki/Associated_Signature_Containers).

Request**GET archives/{archiveId}/entities/{id}/export.asice**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/export.asice**

The set of entityIdKind values: C, E, I.

Request parameters

|         |         |                                |
|---------|---------|--------------------------------|
| Reason  | String  | The export reason.             |
| Version | Integer | The entity version (optional). |

Request header

Authorization: Bearer [session token]

Response

The set of exported entity data.

Structure of the ASiC fil

META-INF/ASiCManifest.xml

META-INF/evidencerecord.xml

aip.xml

mimetype

content (entity content)

Response status

200 – Entity export successfully.

401 – Invalid session.

500 - Server error.

## 5.21 Review

Each entity in the classification scheme has its own life span. Each class, folder or document classified directly under a class must have at least one effective retention period set, which specifies the time frame for the retention of an individual entity in the archive system. In addition to the time frame, the retention period also contains the default action which will be implemented in the review process. The user can change the action during a controlled and planned process for executing the transfer, disposition or permanent retention of electronic content. Below is a description of operations for the review process.

### 5.21.1 Reviews read

Operation reads the reviews.

#### Request

#### **GET archives/{archiveId}/reviews.json**

#### Request parameters

|            |         |   |
|------------|---------|---|
| page_start | Int     | The beginning of the page (optional).   |
| page_size  | Int     | The size of the page (optional).  |
| refresh    | Boolean | If value is <i>true</i> than entity information is created again; otherwise information is created only first time (optional). Parameter is taken into the account when page_start in page_size parameters are present. |
| sort       | String  | The sort key of the collection (optional).<br>The set of values:<br>- sys:Title: The title of the entity.<br>- sys:Modified: Date and time of the last entity change.   |
| sort_order | String  | The sort order of the collection (optional). Valid only if the "sort" parameter exists (optional).<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending.                                    |

|                     |        |   |
|---------------------|--------|---|
| category_properties | String | The property used to request the categorization of the entity collection. The value enables multiple values, separated by the character “ , ” (optional). The response provides a list of potential categories by properties. |
| category            | String | The category of the entity collection. The value represents the category to which the entities belong (optional).   |
| fields              | String | Defines the fields in the reply.<br><u>Example:</u><br>entities(id,title,modified, effective_rights, description,type),<br>page_size,page_start,size,categories.  |
| handle              | String | Collection handle.  |

Request header

Authorization: Bearer [session token]

Response

See chapter [ReviewsResponse](#)

Response status

200 – Reviews read successfully.

401 – Invalid session.

500 - Server error.

**5.21.2 Review public information read**

Operation reads a review public information.

Request

**GET archives/{archiveId}/reviews/{id}/stub.json**

Request header

Authorization: Bearer [session token]

Response

See chapter [ReviewsResponse](#)

### Response status

200 – Review read successfully.

401 – Invalid session.

500 - Server error.

### **Example of the review public information read**

#### Request

GET <https://apps.imis.eu/scsvc/archives/IARC/reviews/ePoesU-YEC3WrOmF2zaSfT94eD4mNYmc/stub.json>

#### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

#### Response

```
{
  "review": {
    "accessed": "2018-11-13T09:10:55.273Z",
    "aip": true,
    "created": "2018-10-24T09:54:54.296Z",
    "creator": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "description": "5 years Regular review",
    "effective_rights": {
      "create_references": true,
      "create_sub_entities": true,
      "change_retention": true,
      "change_rights": true,
      "change_security_class": true,
      "change_status": true,
      "delete_access": true,
      "move_access": true,
      "read_access": true,
      "write_access": true
    },
    "id": "ePoesU-YEC3WrOmF2zaSfT94eD4mNYmc",
    "keywords": ["regular"],
    "message": "Review prepared",
    "modified": "2018-10-24T09:55:22.206Z",
    "opened": "2018-10-24T09:54:54.000Z",
    "owner": {
      "id": "rsalazar",
      "email": "ron.salazar@acme.com",
      "first_name": "Ron",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/rsalazar/avatar",
      "last_name": "Salazar",
      "type": "USER"
    }
  },
}
```



```
"state": "InReview",
"status": {
  "inherited": false,
  "value": "Opened"
},
"title": "Review A-7 July 2018"
}
}
```

### 5.21.3 Review open

The operation opens a review for reading and returns a unique identifier of the open review, which carries out different operations (where the value of *reviewIdType* can equal H).

#### Request

#### **GET archives/{archiveId}/reviews/{id}/handle/open.json**

#### Request header

Authorization: Bearer [session token]

#### Response status

200 – Review opened successfully.

401 – Invalid session.

500 - Server error.

### 5.21.4 Opening a review for editing

The operation opens a review for editing and returns a unique identifier of the open review, which carries out different operations (where the value of *IdType* can equal H).

#### Request

#### **GET archives/{archiveId}/reviews/{id}/handle/edit.json**

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [EntityOpenResponse](#)

### Response status

200 – Review opened successfully.

401 – Invalid session.

500 - Server error.

## **5.21.5 Opening a review for creating**

The operation opens a review for creating and returns a unique identifier of the open review, which carries out different operations (where the value of *IdType* can equal H).

The review can be created from multiple retention policies or from a query expression.

### Request

#### **POST archives/{archiveId}/reviews/create.json**

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [ReviewCreateHandleRequest](#)

### Response

See chapter [EntityOpenResponse](#)

### Response status

200 – Review opened successfully.

401 – Invalid session.

500 - Server error.

## **Example of opening a review for creation**

### Request

POST <https://apps.imis.eu/scsvc/archives/IARC/reviews/create.json>

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Request content

```
{  
  "retention_policies": ["5CobtV-H1DNFXeph2W3lGEafgazOvtfp"]  
}
```

### Response

```
{  
  "handle": "70df7ae6-b289-4062-acb1-22b134967a62"  
}
```

## 5.21.6 Closing an open review

The operation closes an open review. The review is closed with the unique identifier obtained when opening the entity for reading, editing or creating. In the closing operation, the response is without content; the success of the operation is demonstrated with the status of the response.

### Request

**GET archives/{archiveld}/reviews/{id}/handle/close.json**

### Request header

Authorization: Bearer [session token]

### Request status

200 – Open review closed successfully.

401 – Invalid session.

404 - Object does not exist.

500 - Server error.

## 5.21.7 Review read

Operation reads review information.

### Request

**GET archives/{archiveId}/reviews/{id}.json**

and

**GET archives/{archiveId}/reviews/{idType}:{id}.json**

The set of IdType values: H, I.

### Request header

Authorization: Bearer [session token]

### Response

See chapter [ReviewResponse](#)

### Response status

200 – Review read successfully.

401 – Invalid session.

500 - Server error.

## 5.21.8 Review pages read

Operation reads a review pages.

### Response

**GET archives/{archiveId}/reviews/{id}/items.json**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items.json**

The set of IdType values: H, I

and

**GET archives/{archiveId}/reviews/{id}/items.csv**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items.csv**

The set of IdType values: H, I

and

**GET archives/{archiveId}/reviews/{id}/items.xml**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items.xml**

The set of IdType values: H, I

and

**GET archives/{archiveId}/reviews/{id}/items/{itemId}.json**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.json**

The set of IdType values: H, I

and

**GET archives/{archiveId}/reviews/{id}/items/{itemId}.csv**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.csv**

The set of IdType values: H, I

and

**GET archives/{archiveId}/reviews/{id}/items/{itemId}.xml**

and

**GET archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.xml**

The set of IdType values: H, I.

Request header

Authorization: Bearer [session token]

Response

See chapter [ReviewItemResponse](#)

Response status

200 - Review pages read successfully.

401 – Invalid session.

500 - Server error.

**Example of the review pages read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/reviews/H:6146cc0e-a7bd-48ab-a4e6-9d1c21143049/items/QLoVa9H8UTdeCe8bqlpnZ7ZTbg9VEYFy.json

Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

Response

```
{
  "item": {
    "actions": ["Permanent", "Transfer", "Review", "Dispose"],
    "entities": [{
      "action": "Transfer",
      "comment": "",
      "classification_code": "C=02^C=01^C=01^F=2017-000006",
      "reason": "Retention policy conflict. No default reason available.",
      "title": "Mtg w/Joe Kiskill, Jim Hughes & Rick Shapiro- EB3324",
      "transfer_id": "",
      "type": "FOLDER"
    }, {
      "action": "Dispose",
      "comment": "Not important any more",
      "classification_code": "C=02^C=01^C=01^F=2017-000017",
      "reason": "Obsolete",
      "title": "Mtg w/Pavel Zadorozhny - EB3324 (x34778)",
      "transfer_id": "858685",
      "transferred": true,
      "type": "FOLDER"
    }, {
      "action": "Transfer",
      "comment": "",
      "classification_code": "C=02^C=01^C=01^F=2017-000020",
      "reason": "Retention policy conflict. No default reason available.",
      "title": "Frevert traveling til 5/23",
      "transfer_id": "",
      "type": "FOLDER"
    }
  ],
  "id": "QLoVa9H8UTdeCe8bqlpnZ7ZTbg9VEYFy",
  "title": "Decisions - Page 1"
}
```

## 5.21.9 Changing the review page

Operation modifies entities on the review page.

### Request

**PUT archives/{archiveId}/reviews/{id}/items.json**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items.json**

The set of *IdType* values: H, I

and

**PUT archives/{archiveId}/reviews/{id}/items.csv**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items.csv**

The set of *IdType* values: H, I

and

**PUT archives/{archiveId}/reviews/{id}/items.xml**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items.xml**

The set of *IdType* values: H, I

and

**PUT archives/{archiveId}/reviews/{id}/items/{itemId}.json**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.json**

The set of *IdType* values: H, I

and

**PUT archives/{archiveId}/reviews/{id}/items/{itemId}.csv**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.csv**

The set of *IdType* values: H, I

and

**PUT archives/{archiveId}/reviews/{id}/items/{itemId}.xml**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}.xml**

The set of *IdType* values: H, I.

Request header

Authorization: Bearer [session token]

Request content

See chapter [ReviewEntitiesUpdateRequest](#)

Response

See chapter [ReviewResponse](#)

Response status

200 – Entity updated successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

### 5.21.10 Changing an entity on a review page

The operation changes an entity on a review page.

Request**PUT archives/{archiveId}/reviews/{id}/items/{itemId}/entity/{entityId}.json**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}/items/{itemId}/entity/{entityId}.json**

The set of *IdType* values: H, I.



### Request header

Authorization: Bearer [session token]

### Request content

See chapter [ReviewEntityStubUpdateRequest](#)

### Response

See chapter [ReviewEntityStubResponse](#)

### Response status

200 – Entity updated successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

## **Example of modifying an entity on a review page**

### Request

PUT https://apps.imis.eu/scsvs/archives/IARC/reviews/H:22ac84a8-1a18-4a11-9925-cab1e8301133/items/4204VDnqWpwfW2MrvietHKKeouNf13bZ/entity/C=02%5EC=01%5EC=01%5EF=2017-000040.json

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Request content

```
{
  "entity": {
    "action": "Permanent",
    "reason": "Retention policy conflict. No default reason available."
  }
}
```

## Response

```
{
  "entity": {
    "action": "Permanent",
    "classification_code": "C=02^C=01^C=01^F=2017-000040",
    "reason": "Retention policy conflict. No default reason available.",
    "title": "Bonus amounts due back to HR",
    "type": "FOLDER"
  }
}
```

## **5.21.11 Review create**

Operation creates and saves a review page.

### Request

#### **POST archives/{archiveId}/reviews.json**

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [ReviewCreateRequest](#)

### Response

See chapter [ReviewReponse](#)

### Response status

200 – Review created successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

## 5.21.12 Review change

Operation changes a review.

### Request

**PUT archives/{archiveId}/reviews/{id}.json**

and

**PUT archives/{archiveId}/reviews/{idType}:{id}.json**

The set of *idType* values: H, I.

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [ReviewUpdateRequest](#)

### Response

See chapter [ReviewReponse](#)

### Response status

200 – Review created successfully.

400 – Bad request.

401 – Invalid session.

500 - Server error.

### 5.21.13 Review audit log read

Operation reads a review audit log.

#### Request

**GET archives/{archiveId}/reviews/{id}/audit\_log.json**

and

**GET archives/{archiveId}/reviews/{id}/audit\_log.csv**

and

**GET archives/{archiveId}/reviews/{id}/audit\_log.xml**

See chapter [Entity audit log read](#)

### 5.21.14 Review authenticity evidence read

Operation reads a review authenticity evidence information.

#### Request

**GET archives/{archiveId}/reviews/{id}/nonrepudiation.zip**

and

**GET archives/{archiveId}/reviews/{reviewIdType}:{id}/nonrepudiation.zip**

The set of reviewIdType values: H, I.

See chapter [Authenticity](#)

### 5.21.15 Review template read

Operation reads a review template information.

Request

**GET archives/{archiveId}/reviews/{id}/template.json**

and

**GET archives/{archiveId}/reviews/{reviewIdType}:{id}/template.json**

The set of reviewIdType values: H, I.

See chapter [Template read](#)

### 5.21.16 Review Save log read

The operation retrieves the report on saving the review in the JSON and ZIP format.

Request

**GET archives/{archiveId}/reviews/{id}/save\_log.json**

and

**GET archives/{archiveId}/reviews/{idKind}:{id}/save\_log.json**

The set of IdType values: I, H.

and

**GET archives/{archiveId}/reviews/{id}/save\_log.zip**

and

**GET archives/{archiveId}/reviews/{idKind}:{id}/save\_log.zip**

The set of IdType values: I, H.

Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for entity open (when "entityIdKind" value is not "H"). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Response in JSON format

See chapter [SaveLogResponse](#)

Response in ZIP format

The set of save log data.

### 5.21.17 Review access right read

Operation reads a review access right information.

Request

**GET archives/{archiveId}/reviews/{id}/acl.json**

and

**GET archives/{archiveId}/reviews/{reviewIdType}:{id}/acl.json**

The set of reviewIdType values: H, I.

See chapter [Entity access right read](#)

### 5.21.18 Review access right read for each directory entity

Operation reads a review access right information for each directory entity.

Request

**GET archives/{archiveId}/reviews/{id}/access.json**

See chapter [Entity access right read for each directory entity](#).

### 5.21.19 Review access rights create

Operation creates a review access rights.

Request

**POST archives/{archiveId}/reviews/{id}/acl.json**

and

**POST archives/{archiveId}/reviews/{reviewIdType}:{id}/acl.json**

The set of reviewIdType values: H, I.

See chapter [Review access rights create](#)

**5.21.20 Review access right change**

Operation changes an entity explicit access right.

Request**PUT archives/{archiveId}/reviews/{id}/acl/{entryId}.json**

and

**PUT archives/{archiveId}/reviews/{reviewIdType}:{id}/acl/{entryId}.json**

The set of reviewIdType values: H, I.

See chapter [Entity access right change](#)

**5.21.21 Review property access right change**

Operation changes a review property explicit access rights.

Request**PUT archives/{archiveId}/reviews/{id}/acl/{propertyName}/{entryId}.json**

and

**PUT archives/{archiveId}/reviews/{reviewIdType}:{id}/acl/{propertyName}/  
{entryId}.json**

The set of reviewIdType values: H, I.

See chapter [Entity property access right change](#)

## 5.21.22 Review access right delete

Operation deletes an entity access right.

Request

**DELETE archives/{archiveId}/reviews/{id}/acl/{entryId}.json**

and

**DELETE archives/{archiveId}/reviews/{reviewIdType}:{id}/acl/{entryId}.json**

The set of reviewIdType values: H, I.

See chapter [Entity access right delete](#)

## 5.21.23 Review property access right delete

Operation deletes a review property access right.

Request

**DELETE archives/{archiveId}/reviews/{id}/acl/{propertyName}/{entryId}.json**

and

**DELETE archives/{archiveId}/reviews/{reviewIdType}:{id}/acl/{propertyName}/  
{entryId}.json**

The set of reviewIdType values: H, I.

See chapter [Entity property access right delete](#)



## 5.21.24 Review entities transfer

Operation exports the entities.

### Request

#### **POST archives/{archiveId}/reviews/{id}/transfer.zip**

### Request parameters

|           |         |   |
|-----------|---------|---|
| audit_log | Boolean | Specifies whether the audit log of each entity is exported (default value: true).                           |
| evidence  | Boolean | Specifies whether the authenticity and integrity proofs are exported for each entity (default value: true). |

### Request header

Authorization: Bearer [session token]

### Request content (optional)

The dataset of additional metadata on transfer (XML).

### Response

The dataset of exported entities.

### Response status

200 – Review transferred successfully.

401 – Invalid session.

500 - Server error.

## 5.21.25 Review entities transfer confirmation

Operation confirms the entities transfer and updates review pages, where it sets the transfer data for individual entities.

### Request

**POST archives/{archiveId}/reviews/{id}/confirm\_transfer**

and

**POST archives/{archiveId}/reviews/{reviewIdType}:{id}/confirm\_transfer**

The set of reviewIdType values: H, I.

### Request header

Authorization: Bearer [session token]

### Request content

CSV file dataset.

### Response

See chapter [ReviewResponse](#)

### Response status

200 – Entity transferred successfully.

401 – Invalid session.

500 - Server error.

## **Example of the review entities transfer confirmation**

### Request

POST https://apps.imis.eu/scsvc/archives/IARC/reviews/ePoesJ-  
YEC3WrOmF2zaSfT94eD4mNYmc/confirm\_transfer

### Request header

Authorization: Bearer 372d535b-32f3-4686-a13e-db121f2090f6

### Request content

```
ClassificationCode;Transferred;ReferenceId
C=02^C=01^C=01^F=2017-000040;true;2017-000006
```

### Response

```
{
  "entity": {
    "action": "Permanent",
    "classification_code": "C=02^C=01^C=01^F=2017-000040",
    "reason": "Retention policy conflict. No default reason available.",
    "title": "Bonus amounts due back to HR",
    "type": "FOLDER"
  }
}
```

## 5.22 Disposed and deleted entities

Disposed and deleted entities can be read in a stubbed form.

### 5.22.1 Disposed entities read

Operation reads the entities, which were disposed during the review process.

#### Request

**GET archives/{archiveId}/disposed.json**

and

**GET archives/{archiveId}/disposed/{id}/entities.json**

#### Request parameters

|           |        |   |
|-----------|--------|---|
| archiveId | String | The unique identifier of the archive.         |
| Id        | String | The unique identifier of the disposed entity. |

#### Request header

Authorization: Bearer [session token]

### Request parameters

|            |         |   |
|------------|---------|---|
| page_start | Int     | The beginning of the page (optional).   |
| page_size  | Int     | The size of the page (optional).  |
| refresh    | Boolean | If value is <i>true</i> than search is performed again; otherwise it is performed only first time. Parameter is taken into the account when page_start in page_size parameters are present (optional).  |
| sort       | String  | The sort key of the collection (optional).<br>The set of values:<br>- sys:Title: The title of the entity.<br>- sys:ClassificationCode: The classification code (default value).<br>- sys:del:Date:Time: Date and time of the entity deletion.<br>- metadata identifier. |
| sort_order | String  | The sort order of the collection (optional). Valid only if the "sort" parameter exists.<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending.   |
| handle     | String  | Collection handle.  |

### Response

See chapter [DeletionStubsResponse](#)

### Response status

200 – Entities read successfully.

401 – Invalid session.

500 - Server error.

### **Example of the disposed entities read**

#### Request

GET <https://apps.imis.eu/scsvc/archives/IARC/disposed.json?pageStart=0&pageSize=2>

#### Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

## Response

```

{
  "size": 4,
  "page_start": 0,
  "page_size": 2,
  "entities": [
    {
      "agent": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvs/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "container": true,
      "child_count": 1,
      "deleted": "2018-11-28T13:11:04.000Z",
      "description": "Regular review 5-years",
      "id": "nvRKi-Y94neJUmIC3oAS0St_m_-Ivljz",
      "title": "Review 18/11/1"
    },
    {
      "agent": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvs/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "container": true,
      "child_count": 1,
      "deleted": "2018-11-28T13:28:07.000Z",
      "description": "Regular review 5-years",
      "id": "k-CEYhnaR9GMSuQVgGnCFxiTp_zaUsVm",
      "title": "Review 18/11/28"
    }
  ]
}

```

### 5.22.2 Disposed entity read

Operation reads an entity information.

#### Request

**GET archives/{archiveId}/disposed/{id}.json**

#### Request header

Authorization: Bearer [session token]

#### Response

See chapter [DeletionStubResponse](#)

### Response status

200 – Entity read successfully.

401 – Invalid session.

500 - Server error.

### **Example of the disposed entity read**

#### Request

GET https://apps.imis.eu/scsvc/archives/IARC/disposed/nvRKi-Y94neJUmIC3oAS0St\_m\_-Iv1jz.json

#### Request header

Authorization: Bearer 7tOHfCpest56jfrt2rB6jUvDvKXJaBuHEFE00C2t

#### Response

```
{
  "deletion_stub": {
    "agent": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "container": true,
    "child_count": 1,
    "deleted": "2018-11-28T13:11:04.000Z",
    "description": "Regular review 5-years",
    "id": "nvRKi-Y94neJUmIC3oAS0St_m_-Iv1jz",
    "title": "Review 18/11/1"
  }
}
```

### **5.22.3 Disposed entity audit log read**

Operation reads the disposed entity audit log.

#### Request

**GET archives/{archiveId}/disposed/{id}/audit\_log.json**

See chapter [Entity audit log read](#)

**Example of the disposed entity audit log read**Request

GET

https://apps.imis.eu/scsvc/archives/IARC/disposed/urMMVFNpVZCBqIFi1Gx6vPvToHCkIbE4/a  
udit\_log.json

Request header

Authorization: Bearer 7tOHfCpest56jfrt2rB6jUvDvKXJaBuHEFE00C2t

Response

```
{
  "events": [
    {
      "computer_name": "SERVER",
      "details": "Retention policy conflict. No default reason available.",
      "public_address": "127.0.0.1",
      "time": "2018-11-27T15:01:37Z",
      "type": "ENTITY_DISPOSED",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    },
    {
      "computer_name": "SERVER",
      "details": "Changed properties: sys:Description",
      "public_address": "127.0.0.1",
      "time": "2018-11-27T15:01:37Z",
      "type": "PROPERTY_VALUE_CHANGE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    },
    {
      "computer_name": "SERVER",
      "details": "Email - body [gI9ZyHJKmq_EuAeZ9PNXuOnDbFaesVhx]",
      "public_address": "127.0.0.1",
      "time": "2018-11-27T15:01:37Z",
      "type": "CONTENT_PART_DELETE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    },
    {
      "computer_name": "SERVER",
      "details": "Email - raw [gUQrX1hiY8lhLOWCxptoMpauefE8Ff9q]",
      "public_address": "127.0.0.1",
    }
  ]
}
```

```

    "time": "2018-11-27T15:01:37Z",
    "type": "CONTENT_PART_DELETE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-27T14:33:34Z",
    "type": "ENTITY_SAVE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "details": "Changed properties: Review Trigger",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-27T14:33:34Z",
    "type": "PROPERTY_VALUE_CHANGE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-27T14:33:19Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "details": "Added policies:'2 years','3 years','5 years','10 years','10 years +
National Archives",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-27T14:32:18Z",
    "type": "RETENTION_CHANGE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",

```



```

"local_address": "192.168.80.67",
"public_address": "192.168.80.67",
"time": "2018-11-27T14:29:59Z",
"type": "ENTITY_SAVE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}, {
  "computer_name": "MARKOPC",
  "details": "Changed properties: sys:Title, sys:eml:Date, sys:eml:From,
sys:eml:MessageId, sys:eml:Priority, sys:eml:Signed, sys:eml:Subject, sys:eml:To,
sys:eml:ToBCC, sys:eml:ToCC",
"local_address": "192.168.80.67",
"public_address": "192.168.80.67",
"time": "2018-11-27T14:29:59Z",
"type": "PROPERTY_VALUE_CHANGE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}, {
  "computer_name": "MARKOPC",
  "details": "Email - body [gI9ZyHJKmq_EuAeZ9PNXuOnDbFaesVhx]",
"local_address": "192.168.80.67",
"public_address": "192.168.80.67",
"time": "2018-11-27T14:29:59Z",
"type": "CONTENT_PART_SAVE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}, {
  "computer_name": "MARKOPC",
  "details": "Email - body [gI9ZyHJKmq_EuAeZ9PNXuOnDbFaesVhx]",
"local_address": "192.168.80.67",
"public_address": "192.168.80.67",
"time": "2018-11-27T14:29:59Z",
"type": "CONTENT_PART_CREATE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
  "last_name": "Administrator",
  "type": "USER"
}
}, {
  "computer_name": "MARKOPC",
  "details": "Email - raw [gUQrX1hiY8lhLOWCxptoMpauefE8Ff9q]",
"local_address": "192.168.80.67",
"public_address": "192.168.80.67",
"time": "2018-11-27T14:29:59Z",
"type": "CONTENT_PART_SAVE",
"user": {
  "id": "admin",
  "email": "admin@acme.com",
  "first_name": "",
  "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",

```

```

        "last_name": "Administrator",
        "type": "USER"
    }, {
        "computer_name": "MARKOPC",
        "details": "Email - raw [gUQrX1hiY8lhLOWCxptoMpauefE8Ff9q]",
        "local_address": "192.168.80.67",
        "public_address": "192.168.80.67",
        "time": "2018-11-27T14:29:59Z",
        "type": "CONTENT_PART_CREATE",
        "user": {
            "id": "admin",
            "email": "admin@acme.com",
            "first_name": "",
            "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
            "last_name": "Administrator",
            "type": "USER"
        }
    }, {
        "computer_name": "MARKOPC",
        "local_address": "192.168.80.67",
        "public_address": "192.168.80.67",
        "time": "2018-11-27T14:29:59Z",
        "type": "ENTITY_CREATE",
        "user": {
            "id": "admin",
            "email": "admin@acme.com",
            "first_name": "",
            "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
            "last_name": "Administrator",
            "type": "USER"
        }
    }
]
}

```

### 5.22.4 Deleted entities read

Operation reads the deleted entities.

#### Request

**GET archives/{archiveId}/deleted.json**

and

**GET archives/{archiveId}/deleted/{id}/entities.json**

#### Request header

Authorization: Bearer [session token]

Request parameters

|            |         |   |
|------------|---------|---|
| page_start | Int     | The beginning of the page (optional).   |
| page_size  | Int     | The size of the page (optional).  |
| refresh    | Boolean | If value is <i>true</i> than search is performed again; otherwise it is performed only first time. Parameter is taken into the account when page_start in page_size parameters are present (optional).  |
| sort       | String  | The sort key of the collection (optional).<br>The set of values:<br>- sys:Title: The title of the entity.<br>- sys:ClassificationCode: The classification code (default value).<br>- sys:del:Date:Time: Date and time of the entity deletion.<br>- metadata identifier. |
| sort_order | String  | The sort order of the collection (optional). Valid only if the »sort« parameter exists.<br>The set of values:<br>- asc: Ascending (default value).<br>- desc: Descending.   |
| handle     | String  | Collection handle.  |

Response

See chapter [DeletionStubsResponse](#)

Response status

200 – Entities read successfully.

401 – Invalid session.

500 - Server error.

**Example of the deleted entities read**Request

GET <https://apps.imis.eu/scsvc/archives/IARC/deleted.json?pageStart=0&pageSize=2>

Request header

Authorization: Bearer 7tOHfCpest56jfRt2rB6jUvDvKXJaBuHEFE00C2t

## Response

```

{
  "size": 48,
  "page_start": 0,
  "page_size": 2,
  "entities": [
    {
      "agent": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "classification_code": "C=05^C=03",
      "container": false,
      "child_count": 0,
      "deleted": "2018-11-16T14:29:44.000Z",
      "description": "temp",
      "id": "h2gvyvUGPT8QNYlL-N7gZaSnGLWGYd5Q",
      "public_classification_code": "05.03",
      "reason": "temp",
      "title": "Employee Records"
    },
    {
      "agent": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      },
      "classification_code": "C=06^C=01",
      "container": false,
      "child_count": 0,
      "deleted": "2018-12-04T08:26:52.000Z",
      "description": "IMiS/Scan project",
      "id": "iWvjJbVX3KohUjcYcOrVhYQSHbYPM2bq",
      "public_classification_code": "06.01",
      "reason": ".",
      "title": "Scan project"
    }
  ]
}

```

### 5.22.5 Deleted entity read

Operation reads an entity information.

#### Request

**GET archives/{archiveId}/deleted/{id}.json**

#### Request header

Authorization: Bearer [session token]

## Response

See chapter [DeletionStubResponse](#)

## Response status

200 – Entity read successfully.

401 – Invalid session.

500 - Server error.

## **Example of the deleted entity read**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC/deleted/h2gvyyUGPT8QNYIL-N7gZaSnGIWGYd5Q.json

### Request header

Authorization: Bearer 7tOHfCpest56jffRt2rB6jUvDvKXJaBuHEFE00C2t

## Response

```
{
  "deletion_stub": {
    "agent": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    },
    "classification_code": "C=05^C=03",
    "container": false,
    "child_count": 0,
    "deleted": "2018-11-16T14:29:44.000Z",
    "description": "temp",
    "id": "h2gvyyUGPT8QNYIL-N7gZaSnGIWGYd5Q",
    "public_classification_code": "05.03",
    "reason": "temp",
    "title": "Employee Records"
  }
}
```

## 5.22.6 Deleted entity audit log read

Operation reads the deleted entity audit log.

### Request

**GET** `archives/{archiveId}/deleted/{id}/audit_log.json`

See chapter [Entity audit log read](#)

### Example of the deleted entity audit log read

#### Request

GET `https://apps.imis.eu/scsvc/archives/IARC/deleted/h2gvvyUGPT8QNYIL-N7gZaSnGIWGYd5Q/audit_log.json`

#### Request header

Authorization: Bearer `7tOHfCpest56jffRt2rB6jUvDvKXJaBuHEFE00C2t`

#### Response

```
{
  "events": [
    {
      "computer_name": "MARKOPC",
      "details": "temp",
      "local_address": "192.168.80.67",
      "public_address": "192.168.80.67",
      "time": "2018-11-16T14:29:44Z",
      "type": "ENTITY_DELETE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    },
    {
      "computer_name": "MARKOPC",
      "details": "Changed properties: sys:Description",
      "local_address": "192.168.80.67",
      "public_address": "192.168.80.67",
      "time": "2018-11-16T14:29:44Z",
      "type": "PROPERTY_VALUE_CHANGE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    }
  ]
}
```

```

    }, {
      "computer_name": "MARKOPC",
      "local_address": "192.168.80.67",
      "public_address": "192.168.80.67",
      "time": "2018-11-16T14:16:09Z",
      "type": "ENTITY_OPEN_READ_WRITE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    }, {
      "computer_name": "MARKOPC",
      "local_address": "192.168.80.67",
      "public_address": "192.168.80.67",
      "time": "2018-11-16T14:10:59Z",
      "type": "ENTITY_SAVE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    }, {
      "computer_name": "MARKOPC",
      "details": "Added DENY rights for 'sys:Creator': Read: OFF; Write: OFF; Delete: OFF;
Change permissions: OFF; Create entities: OFF; Move: OFF; Change security class: ON; Change
status: ON; Change retention: OFF; Create references: OFF; ValidFrom: 'UNDEFINED' to '2018-
10-31T23:00:00Z'; ValidTo: 'UNDEFINED' to '2018-11-30T22:59:00Z'; ",
      "local_address": "192.168.80.67",
      "public_address": "192.168.80.67",
      "time": "2018-11-16T14:10:59Z",
      "type": "ACL_ENTRY_CHANGE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    },
    "version": 47920,
    "version_label": ""
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T14:10:11Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "2a01:260:4086:1280:ec3f:24a9:b72:3621",
  "public_address": "192.168.50.15",
  "time": "2018-11-16T14:07:24Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "sys:Administrator",
    "email": "",

```

```

    "first_name": "",
    "last_name": "System Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "2a01:260:4086:1280:ec3f:24a9:b72:3621",
  "public_address": "192.168.50.15",
  "time": "2018-11-16T14:07:22Z",
  "type": "ENTITY_SAVE",
  "user": {
    "id": "sys:Administrator",
    "email": "",
    "first_name": "",
    "last_name": "System Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "apps01.imis.si",
  "details": "Removed DENY rights for 'sys:Creator': Read: ON; Write: ON; Delete: ON;
Change permissions: ON; Create entities: ON; Move: ON; Change security class: ON; Change
status: ON; Change retention: ON; Create references: ON; ValidFrom: '2018-10-31T23:00:00Z'
to 'UNDEFINED'; ValidTo: '2018-11-30T22:59:00Z' to 'UNDEFINED'; ",
  "local_address": "2a01:260:4086:1280:ec3f:24a9:b72:3621",
  "public_address": "192.168.50.15",
  "time": "2018-11-16T14:07:22Z",
  "type": "ACL_ENTRY_CHANGE",
  "user": {
    "id": "sys:Administrator",
    "email": "",
    "first_name": "",
    "last_name": "System Administrator",
    "type": "USER"
  }
},
"version": 44544,
"version_label": ""
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "2a01:260:4086:1280:ec3f:24a9:b72:3621",
  "public_address": "192.168.50.15",
  "time": "2018-11-16T14:07:00Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "sys:Administrator",
    "email": "",
    "first_name": "",
    "last_name": "System Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "2a01:260:4086:1280:ec3f:24a9:b72:3621",
  "public_address": "192.168.50.15",
  "time": "2018-11-16T14:06:40Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "sys:Administrator",
    "email": "",
    "first_name": "",
    "last_name": "System Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "MARKOPC",
  "local_address": "192.168.80.67",
  "public_address": "192.168.80.67",
  "time": "2018-11-16T14:01:53Z",
  "type": "ENTITY_SAVE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",

```



```

    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "MARKOPC",
  "details": "Added DENY rights for 'sys:Creator': Read: ON; Write: ON; Delete: ON;
Change permissions: ON; Create entities: ON; Move: ON; Change security class: ON; Change
status: ON; Change retention: ON; Create references: ON; ValidFrom: 'UNDEFINED' to '2018-10-
31T23:00:00Z'; ValidTo: 'UNDEFINED' to '2018-11-30T22:59:00Z'; ",
  "local_address": "192.168.80.67",
  "public_address": "192.168.80.67",
  "time": "2018-11-16T14:01:53Z",
  "type": "ACL_ENTRY_CHANGE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  },
  "version": 44384,
  "version_label": ""
}, {
  "computer_name": "MARKOPC",
  "local_address": "192.168.80.67",
  "public_address": "192.168.80.67",
  "time": "2018-11-16T13:59:51Z",
  "type": "ENTITY_OPEN_READ_WRITE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "MARKOPC",
  "local_address": "192.168.80.67",
  "public_address": "192.168.80.67",
  "time": "2018-11-16T13:59:48Z",
  "type": "ENTITY_SAVE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}, {
  "computer_name": "MARKOPC",
  "details": "Added DENY rights for 'kclay': Read: OFF; Write: OFF; Delete: OFF;
Change permissions: OFF; Create entities: ON; Move: OFF; Change security class: OFF; Change
status: OFF; Change retention: OFF; Create references: OFF; ValidFrom: 'UNDEFINED' to '2018-
09-30T22:00:00Z'; ValidTo: 'UNDEFINED' to '2018-12-31T22:59:00Z'; ",
  "local_address": "192.168.80.67",
  "public_address": "192.168.80.67",
  "time": "2018-11-16T13:59:48Z",
  "type": "ACL_ENTRY_CHANGE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
},

```

```
    "version": 44384,
    "version_label": ""
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T13:59:10Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T13:57:28Z",
    "type": "ENTITY_OPEN_READ_ONLY",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T13:11:36Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "kclay",
      "email": "keira.clay@acme.com",
      "first_name": "Keira",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/kclay/avatar",
      "last_name": "Clay",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T13:11:14Z",
    "type": "ENTITY_OPEN_READ_ONLY",
    "user": {
      "id": "kclay",
      "email": "keira.clay@acme.com",
      "first_name": "Keira",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/kclay/avatar",
      "last_name": "Clay",
      "type": "USER"
    }
  }, {
    "computer_name": "MARKOPC",
    "local_address": "192.168.80.67",
    "public_address": "192.168.80.67",
    "time": "2018-11-16T13:09:29Z",
    "type": "ENTITY_OPEN_READ_WRITE",
    "user": {
      "id": "kclay",
      "email": "keira.clay@acme.com",
      "first_name": "Keira",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/kclay/avatar",
      "last_name": "Clay",
      "type": "USER"
    }
  }
```

```

    }
  }, {
    "computer_name": "apps01.imis.si",
    "local_address": "192.168.80.51",
    "public_address": "192.168.50.15",
    "time": "2018-11-15T09:39:32Z",
    "type": "ENTITY_OPEN_READ_ONLY",
    "user": {
      "id": "admin",
      "email": "admin@acme.com",
      "first_name": "",
      "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
      "last_name": "Administrator",
      "type": "USER"
    }
  }
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "192.168.80.67",
  "public_address": "192.168.50.15",
  "time": "2018-11-14T10:00:57Z",
  "type": "ENTITY_OPEN_READ_ONLY",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}
}, {
  "computer_name": "apps01.imis.si",
  "local_address": "192.168.80.67",
  "public_address": "192.168.50.15",
  "time": "2018-11-14T09:08:15Z",
  "type": "ENTITY_OPEN_READ_ONLY",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}
}, {
  "computer_name": "JURE",
  "local_address": "20.1.1.1",
  "public_address": "2a01:260:4086:1280:3cca:8b29:f39:6147",
  "time": "2018-11-13T12:27:04Z",
  "type": "ENTITY_SAVE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}
}, {
  "computer_name": "JURE",
  "details": "Changed properties: sys:Creator, sys:Title",
  "local_address": "20.1.1.1",
  "public_address": "2a01:260:4086:1280:3cca:8b29:f39:6147",
  "time": "2018-11-13T12:27:04Z",
  "type": "PROPERTY_VALUE_CHANGE",
  "user": {
    "id": "admin",
    "email": "admin@acme.com",
    "first_name": "",
    "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
    "last_name": "Administrator",
    "type": "USER"
  }
}

```

```

    }, {
      "computer_name": "JURE",
      "local_address": "20.1.1.1",
      "public_address": "2a01:260:4086:1280:3cca:8b29:f39:6147",
      "time": "2018-11-13T12:27:04Z",
      "type": "ENTITY_CREATE",
      "user": {
        "id": "admin",
        "email": "admin@acme.com",
        "first_name": "",
        "icon_url": "https://apps.imis.eu/scsvc/archives/IARC/directory/admin/avatar",
        "last_name": "Administrator",
        "type": "USER"
      }
    }
  ]
}

```

## 5.23 Legacy archival

The archive server enables unstructured object storage.

Below is a description of operations for the legacy archival.

### 5.23.1 Content object open

The operation opens an object for reading and returns a unique identifier of the open object, which carries out different operations (when the “idType” value is H).

#### Request

**GET archives/{archiveId}/objects/{id}/handle/open.json**

and

**GET archives/{archiveId}/objects/{idType}:{id}/handle/open.json**

The set of idType values: E, I.

#### Request parameters

|        |        |  |
|--------|--------|--|
| reason | String | The reason for content object open (optional). |
|--------|--------|--|

#### Request header

Authorization: Bearer [session token]

### Response

See chapter [HandleOpenResponse](#)

## **5.23.2 Content object close**

The operation closes the open object using the unique identifier acquired on opening. In the close operation, the response is without content; the success of the operation is demonstrated with the status of the response.

### Request

**GET archives/{archiveId}/objects/{handle}/handle/close.json**

### Request header

Authorization: Bearer [session token]

### Response status

200 – Open content object closed successfully.

401 – Invalid session.

404 – Object does not exist.

500 – Server error.

### 5.23.3 Content object read

Operation reads content object.

#### Request

**GET archives/{archiveId}/objects/{id}**

and

**GET archives/{archiveId}/objects/{idType}:{id}**

The set of idType values: E, I.

#### Request parameters

|        |        |   |
|--------|--------|---|
| Reason | String | The reason to read content object (optional). |
|--------|--------|---|

#### Request header

Authorization: Bearer [session token]

#### Response

The set of object data.

#### Response header

Content-Type: Content type.

Content-Length: The content object size (in bytes).

#### Response status

200 – Content object read successfully.

401 – Invalid session.

500 – Server error.

**Example of the content object read**Request

GET https://apps.imis.eu/scsvc/archives/IARC/objects/iOOX5tctFtY11jXC9Rblp6jkRZrblGd2

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Response

|      |
|------|
| test |
|------|

Response header

Content-Type: text/plain

Content-Length: 4

**5.23.4 Content object properties read**

Operation reads a content object properties.

Request

**GET archives/{archiveId}/objects/{id}.json**

and

**GET archives/{archiveId}/objects/{idType}:{id}.json**

The set of idType values: E, I, H.

Request parameters

|        |        |   |
|--------|--------|---|
| reason | String | The reason to read content object (optional). |
|--------|--------|---|

Request header

Authorization: Bearer [session token]

Response

See chapter [ObjectStageResponse](#).

### Response status

200 – Content object properties read successfully.

401 – Invalid session.

500 – Server error.

### **Example of the content object read**

#### Request

GET

https://apps.imis.eu/scsvc/archives/IARC/objects/jMDmA5CDBBMJX58j\_\_oq90QrWcXl2jSS

#### Request header

Authorization: Bearer ToQAe1QmkWya95991aqfHFWdqcfp406

#### Response

```
{
  "object": {
    "id": "jMDmA5CDBBMJX58j__oq90QrWcXl2jSS",
    "size": 346432,
    "content_type": "application/pdf",
    "extension": ".pdf"
  }
}
```

## **5.23.5 Multipart content read**

The operation retrieves a part of the object dataset.

#### Request

**GET archives/{archiveId}/objects/{id}/stream**

and

**GET archives/{archiveId}/objects/{idType}:{id}/stream**

The set of idType values: E, I, H.



Request parameters

|        |        |  |
|--------|--------|--|
| Reason | String | The reason for content object read (optional). |
|--------|--------|--|

Request header

Authorization: Bearer [session token]

Range: bytes=[from]-[to (optional)]

Response

The set of content object data.

Response header

Content-Type: Content type.

Content-Range: The size of the content part (e.g.: bytes 2097152-4194303/11845770).

Response status

200 – Object read successfully.

401 – Invalid session.

404 – Object does not exist.

500 – Server error.

## 5.23.6 Content object create

Operation creates the content object with the option of defining an external identifier, the reason for creation, and the save profile.

Request**POST archives/{archiveId}/objects**Request parameters

|             |        |  |
|-------------|--------|--|
| external_id | String | External content object identifier (optional). |
| reason      | String | The reason for object creation (optional).     |
| stage       | String | Defines the storage profile (optional).        |

### Request header

Authorization: Bearer [session token]

Content-Type: [content type]

### Request content

The set of object data.

### Response

See chapter [ObjectStageResponse](#).

### Response status

200 – Object created successfully.

401 – Invalid session.

500 – Server error.

## **Example of the content object create**

### Request

POST

https://apps.imis.eu/scsvc/archives/IARC/objects?stage=Dokumenti&reason=Create&external\_id=DOC\_0003

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: text/plain

### Request content

test

## Response

```

{
  "object": {
    "id": "60dd02571d98a94509a0d4a6c7ac030ab14e2a48902a348a20ee468c906ea3b3",
    "size": 4,
    "content_type": "text/plain",
    "extension": ".txt"
  }
}

```

## 5.23.7 Content object change

Operation changes a content object with the option of changing the external identifier and giving the reason for the change.

### Request

**PUT archives/{archiveId}/objects/{id}.json**

and

**PUT archives/{archiveId}/objects/{idType}:{id}.json**

The set of idType values: E, I.

### Request parameters

|             |        |   |
|-------------|--------|---|
| external_id | String | External identifier (optional).                 |
| reason      | String | The reason to change content object (optional). |

### Request header

Authorization: Bearer [session token]

### Response

See chapter [ObjectStageResponse](#).

### Response status

200 – Content object changed successfully.

401 – Invalid session.

500 – Server error.

**Example of the content object change**Request

POST https://apps.imis.eu/scsvc/archives/IARC/objects/E:DOC\_0003.json? reason=Update

Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

Content-Type: text/plain

Request content

```
test
test
```

Response

```
{
  "object": {
    "id": "DOC_504",
    "size": 9,
    "content_type": "text/plain",
    "extension": ".txt"
  }
}
```

**5.23.8 Content object delete**

Operation deletes a content object with the option of giving the reason for deletion.

Request

**DELETE archives/{archiveId}/objects/{id}.json**

and

**DELETE archives/{archiveId}/objects/{idType}:{id}.json**

The set of idType values: E, I.

Request parameters

|        |        |                                      |
|--------|--------|--------------------------------------|
| reason | String | The reason to delete content object. |
|--------|--------|--------------------------------------|

Request header

Authorization: Bearer [session token]

### Response status

200 – Content object deleted successfully.

401 – Invalid session.

500 – Server error.

### **Example of the content object delete**

#### Request

DELETE https://apps.imis.eu/scsvc/archives/IARC/objects/E:DOC\_0003.json

#### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

#### Response status

200 – Content object deleted successfully.

## **5.24 User session management**

User session management enables access to operations for reading user sessions, closing user sessions, reading users' opened entities and closing users' opened entities. By default, the user can see only their own sessions that were opened with the same user profile. For managing other sessions, the session identifier is used, with which we can execute the operations of closing a session, reading opened entities, and closing opened entities.

Below is a description of user session management operations.

### **5.24.1 User sessions collection read**

Operation retrieves a collection of all the user sessions opened by the user. The response never sends a "session token" for a specific session but a unique identifier which can be used to close the session. The user can see only their own sessions that were opened with the same user profile. The permission to view all sessions can be set in the configuration of each archive.

The sessions collection read enables reading by pages and searching for sessions.

This feature is enabled on IMiS/ARC 10.1 or older.

Request**GET archives/{archiveId}/sessions.json**Request header

Authorization: Bearer [session token]

Request parameters

|            |         |   |
|------------|---------|---|
| page_size  | Integer | The size of the page (optional).  |
| page_start | Integer | The beginning of the page (optional).   |
| Q          | String  | Search string (optional).   |
| Closed     | Boolean | Specifies whether sessions that have been closed are returned (optional). The default value is <i>false</i> . |
| Username   | String  | Defines the username or alias of the collection of user sessions that we are searching for (optional).        |
| Fields     | String  | Defines the fields in the reply (optional).<br>Example: sessions(id,username)                                 |

Response

See chapter [SessionsResponse](#)

Response status

200 – Sessions read successfully.

401 – Invalid session.

500 – Server error.

**5.24.2 User session close**

The operation closes the user session. The session identifier is needed to close the user session.

Request**POST archives/{archiveId}/sessions.json**

### Request header

Authorization: Bearer [session token]

### Request content

See chapter [SessionsCloseRequest](#)

### Response status

200 – Sessions closed successfully.

400 – Bad request.

401 – Invalid session.

404 – Session does not exist.

500 – Server error.

## **5.24.3 Opened session entities collection read**

The operation retrieves a collection of all the currently opened entities under a user session, which have been opened by the user. The response sends the basic entity information, which can be expanded with the parameter “fields”. The user can view the opened entities under their own session or, by using the parameter “session\_id”, can view the opened entities under another session.

### Request

**GET archives/{archiveId}/cache/entities.json**

### Request header

Authorization: Bearer [session token]

Request parameters

|            |         |   |
|------------|---------|---|
| page_size  | Integer | The size of the page (optional).  |
| page_start | Integer | The beginning of the page (optional).   |
| session_id | String  | The identifier of other session (optional).                                   |
| fields     | String  | Defines the fields in the reply (optional).<br>Example: sessions(id,username) |

Response

See chapter [EntitiesCacheResponse](#)

Response status

200 – Sessions read successfully.

401 – Invalid session.

500 – Server error.

**5.24.4 Opened session entities close**

The operation closes the opened entities under a given user session. The request can send multiple temporary identifiers of the opened entities, which define the entities to be closed.

The user can close the opened entities under their own session or, by using the parameter “session\_id”, can close the opened entities under another session.

Request**POST archives/{archiveId}/cache/clear.json**Request header

Authorization: Bearer [session token]

Request parameters

|            |         |   |
|------------|---------|---|
| session_id | Integer | The identifier of other session (optional). |
|------------|---------|---|



Request content

See chapter [CacheClearRequest](#)

Response

The response content is empty.

Response status

200 – Sessions closed successfully.

401 – Invalid session.

500 – Server error.

## 5.25 WOPI interface

The WOPI interface provides access to reading the content of entity objects for showing the content in Office applications, e.g. Office Online.

### 5.25.1 Content metadata read

The operation retrieves metadata on the entity object content.

#### **GET archives/{archiveId}/entities/{id}/wopi/files/{fileId}**

and

#### **GET archives/{archiveId}/entities/{entityIdKind}:{id}/wopi/files/{fileId}**

The set of entityIdKind values: C, E, I, H.

Request parameters

|              |        |   |
|--------------|--------|---|
| access_token | String | The unique identifier of the session (token). |
|--------------|--------|---|

Response

The set of object metadata.

Response status

200 - Object read successfully.

401 – Invalid session.

404 - Object does not exist.

500 – Server error.

**5.25.2 Content read**

The operation retrieves the entity object content.

**GET archives/{archiveId}/entities/{id}/wopi/files/{fileId}/contents**

and

**GET archives/{archiveId}/entities/{entityIdKind}:{id}/wopi/files/{fileId}/contents**

The set of entityIdKind values: C, E, I, H.

Request parameters

|              |        |   |
|--------------|--------|---|
| access_token | String | The unique identifier of the session (token). |
|--------------|--------|---|

Response

The set of object data.

Response header

Content-Type: content type.

Content-Length: content size (in bytes).

Response status

200 - Object read successfully.

401 – Invalid session.

404 - Object does not exist.

500 – Server error.

## 5.26 External identity

The interface for authorization with external identities enables callbacks that represent a start point in the authorization towards the external identity provider. The provider settings, the start point parameters and the authorization end point are set in the service configuration.

### 5.26.1 Opening a session with the OIDC and SAML 2.0 external identities

The operation starts the authorization process with an external identity for opening a session.

#### **GET archives/{archiveId}/session/{authId}/open**

##### Response

Redirects to the authorization page.

### 5.26.2 Opening a session with the SAML 2.0 external identity

The operation continues the authorization process with an external identity for opening a session.

#### **POST archives/{archiveId}/session/{authId}/open**

##### Response

Redirects to the next authorization page.

### 5.26.3 Linking the user profile with the OIDC and SAML 2.0 external identities

The operation starts the authorization process with an external identity for linking a user profile.

#### **GET archives/{archiveId}/account/identity/{authId}/link.json**

### Response

Redirects to the authorization page.

## **5.26.4 Linking the user profile with the SAML 2.0 external identity**

The operation continues the authorization process with an external identity for linking a user profile.

### **POST archives/{archiveId}/account/identity/{authId}/link.json**

### Response

Redirects to the next authorization page.

## **5.27 Service load**

The interface for checking the service load is used in “Load Balancer” environments, where specific traffic-routing algorithms can check the load of a given service. The index defining mode can be set in the configuration, which can take into account the processor usage, memory usage, the load index of the number of requests and the duration of requests in a specific time period.

Two load-checking modes are supported:

- Load index;
- Response time.

This operation returns the index of the value that determines load. The index value ranges from 0 to 100.

0 means that the service is under full load, while 100 means that the service is fully available.

### **GET load.json**

### Request header

Authorization: Bearer [index token]

Request parameters

|       |        |                               |
|-------|--------|-------------------------------|
| token | String | Access key to the load index. |
|-------|--------|-------------------------------|

Response

Object dataset.

Response status

200 – Index read successfully.

500 – Server error.

**5.27.1 Response time**

This operation returns a response in a specific amount of time, which determines load.

If the request takes less time, then the service is under smaller load.

**GET health**Request header

Authorization: Bearer [index token]

Request parameters

|       |        |   |
|-------|--------|---|
| token | String | Access key to the load index.                     |
| echo  | String | The value that will be sent back in the response. |

Response

The dataset of the value of the “echo” parameter or an empty response.

Response status

200 – Index read successfully.

500 – Server error.

## 6 TROUBLESHOOTING

### 6.1 Problems using IMiS®/Storage Connector Services

#### REST

Bellow, issues frequently encountered when using IMiS®/Storage Connector Services with REST interface are described and instructions for resolving them are given.

##### 6.1.1 Bad authorization

###### Request

POST <https://apps.imis.eu/scsvc/archives/IARC98/session/open.json>

```
{
  "authentication" : {
    "username" : "admin",
    "password" : "password"
  }
}
```

###### Response

```
{
  "error": {
    "message": "javax.security.auth.login.LoginException: User name or password is invalid.",
    "details": " Exception class
com.imis.storageconnector.services.model.exception.ServiceException:
javax.security.auth.login.LoginException: User name or password is invalid.\r\n at
com.imis.storageconnector.services.app.Archive.getCapabilities(Archive.java:552)\r\n at
com.imis.storageconnector.services.app.Archive.<init>(Archive.java:398)\r\n at
com.imis.storageconnector.services.app.BaseApplication.createArchive(BaseApplication.java:81
)\r\n at
com.imis.storageconnector.services.io.rest.resource.ArchiveResource.sessionOpen(ArchiveResou
rce.java:587)\r\n Caused by: Exception class javax.security.auth.login.LoginException: User
name or password is invalid.\r\n at
com.imis.imisarc.client.IAServerChannel.authenticateSRP6A(IAServerChannel.java:4476)\r\n
at com.imis.imisarc.client.IAServerChannel.connectionOpen(IAServerChannel.java:3227)\r\n
at com.imis.imisarc.client.IASession.authenticate(IASession.java:2041)\r\n at
com.imis.storageconnector.IASessionPoolManager.getSessionPool(IASessionPoolManager.java:860)
\r\n at com.imis.storageconnector.imisarchiver.Archive.getSessionPool(Archive.java:847)\r\n
at com.imis.storageconnector.imisarchive.Archive.getCapabilities(Archive.java:942)\r\n at
com.imis.storageconnector.services.app.Archive.getCapabilities(Archive.java:550)\r\n at
com.imis.storageconnector.services.app.Archive.<init>(Archive.java:398)\r\n at
com.imis.storageconnector.services.app.BaseApplication.createArchive(BaseApplication.java:81
)\r\n at
com.imis.storageconnector.services.io.rest.resource.ArchiveResource.sessionOpen(ArchiveResou
rce.java:587)"
  }
}
```

### Response status

401 – Bad authorization.

### Cause of the problem

The issue could be caused by invalid username or password.

### Resolving the problem

Try sending a different username and password again.

## **6.1.2 Session timeout**

### Request

GET https://apps.imis.eu/scsvc/archives/IARC98/entities/l:YQM1ixP8TAOZOQabg-OSRxF9mrLAFHJt9YDVRK5xNs/entities.json

### Request header

Authorization: Bearer d0f9eb89-8c43-4dd4-ba9d-14c471fa53f0

### Response

#### *Scheme*

```
{
  "error": {
    "message": "Not authorized"
  }
}
```

### Response status

401 - Unauthorized, username and password are incorrect.

### Cause of the problem

The issue could be caused by session timeout.

### Resolving the problem

Open new session.