



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

Version 9.10.2310

**margis**

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

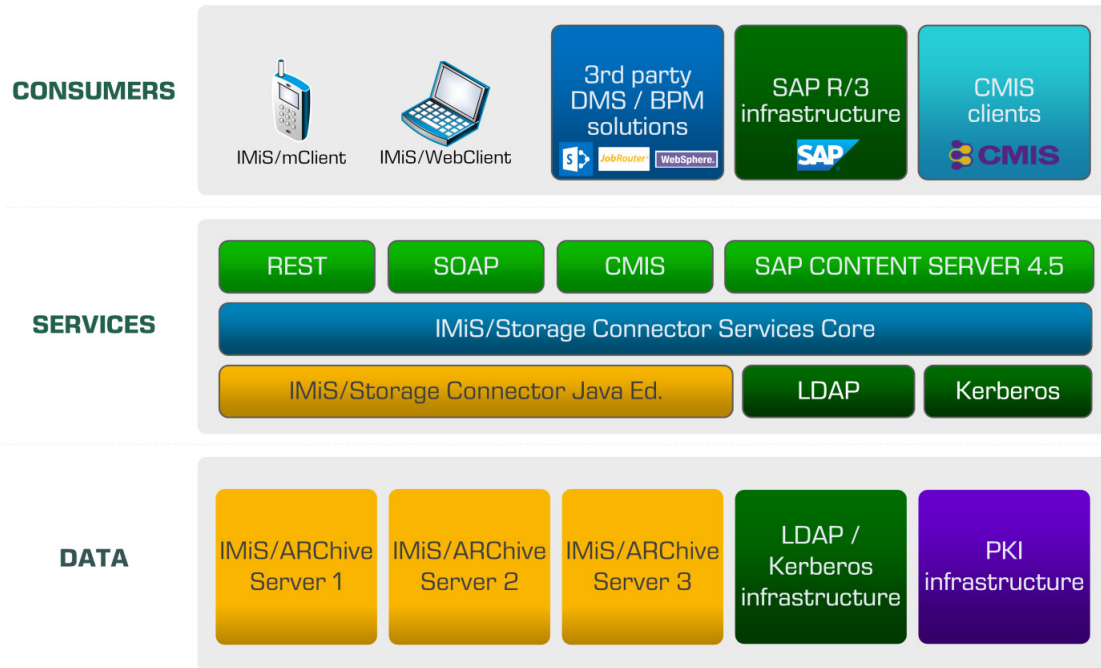


Image 1: IMiS®/Storage Connector Services architecture

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.9.10.2310.114.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 2023 will read 2310.*

- **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 9.10.2310, we have implemented the following new functionalities and improvements to the previous version 9.9.2210 of the IMiS®/Storage Connector Services REST module:

### New functionalities:

- Uses an external cache.
- Reads an entity collection in the CSV format.
- Returns the “timestamped” entity property.

### Improvements:

- Improved return of INT64 types in the form of a JSON string.
- Improved read and return of the Range and Content Range header.
- Improved import of review decisions in the CSV format.
- Improved entity import with an electronic message.

## 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 SE 8 version, Java 8 update 351 or later;
- Apache Tomcat 9.0.x
- Supported operating systems: \*
  - Oracle Solaris 10, 11 (32/64 bit) or later;
  - Microsoft Windows 10 (32/64-bit) 22H2, Windows Server 2019 version 1809 (32/64-bit) or later;
  - Oracle Enterprise Linux 7, 8, 9; Red Hat Enterprise Linux 8, 9; SUSE Linux Enterprise Server 12, 15; other distributions that support the Java 8 runtime or later are untested but should work.

*Notes:*

\* *Summary of operating systems supported for JDK 8 as listed on Oracle's website:*

<https://www.oracle.com/java/technologies/javase/jdk-jre-8-cs-config.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). The set of types - C - I.
defaultEntityIdEncoding	String	Entity identifier encoding (optional). The set of values: - BASE16 - BASE64 - 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). The set of types: - ID192 - 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: - BASE16, - BASE64, - BASE85.
defaultObjectStagingIdType	String	Type of object identifier (optional, default value: ID192). The set of values: - ID192, - 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: - ARCHIVE, - PROXY. 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. The set of values: - oidc, - 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.  <u>Example:</u> <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".  <u>Example:</u> <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.  <u>Example:</u> <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.  <u>Example:</u> <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.  <u>Example:</u> 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.  <u>Example:</u> https://apps.imis.eu/wclient/#/archive/iarc/profile
responseType	String	The authorization process mode. The set of values: - code.
scope	String	The collection of required external identity data.  <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. The set of values: - 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.  <u>Example:</u> <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.  <u>Default value:</u> <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/config/storage/externalCache attributes*

host	String	Address of the external cache server.
port	String	Port of the external cache server.
password	String	External cache password.



*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/COxitqgJr1sJnIDe8-jiKhxDx1FrYbtRHKJ9z_hELisAlapwE9LUPh6fcXIfb5vwpbM14x19H9TRFPc5N008Sb3VSgIBrfRYvW6cUA"
      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"/>
    </availability>
  </loadMonitor>

```

```
<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.csv](#)

[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}/entities.csv](#)

[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/{propertyld}.json](#)

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

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

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

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

[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/{parentld}.json](#)

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

## Multipart content upload in unstructured storage

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

[POST archives/{archiveId}/objects/create\\_sessions/{sessionId}/save.json](#)

[PUT archives/{archiveId}/objects/create\\_sessions/{sessionId}](#)

[DELETE archives/{archiveId}/objects/create\\_sessions/{sessionId}.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: - GROUP: directory entity is a group. - 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. The set of links: - disposition_holds: Link to the disposition hold. - directory: Link to the directory entities. - entities: Link to the archive root entities. - retention_policies: Link to the retention policies. - search: Link to the entities search on the archive server root. - 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. 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). The set of values: - ASCENDING - DESCENDING.
types	String []	Entity types. The set of values: - CLASS - DOCUMENT - 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). The set of values: - AUTOMATIC - MANUAL - 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. Compatibility: IMiS®/ARChive Server 9.10 or lower.
email	<a href="#">EmailCreate</a>	Email content. 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: - "CLASS", - "FOLDER", - "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: - GROUP: Directory entity is a group - 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: - GROUP: Directory entity is a group - USER: Directory entity is a user.
uri	String	Link to the directory entity (optional).
membership	String	Defines the membership level in the group (optional). The set of values: - 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: - 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: 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: - 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*

<p>links</p>	<p><a href="#">Link</a> []</p>	<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: - CLASS - FOLDER - 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. The set of values: - READ - READ_WRITE
timestamped	<a href="#">String - DateTime</a>	Date and time when the entity was last timestamped.

## 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. The set of values: - DIRECTORY - 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: - entity:acl:entry#edit - 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. The set of values: - DIRECTORY - 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. The set of values (optional): - SIGNED: only the digitally signed content which IMiS®/ARChive Server can verify is allowed. - 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: - AUTOMATIC - MANUAL - 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. 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: - DIRECTORY - 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). The set of links: - entity:acl:property_entry#edit - 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. The set of values: - DIRECTORY - 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. The set of values: - C - E - 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*

policies	<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*

```

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

```

*Fields*

policies	<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: - 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. The set of values: - ALLOW - 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. The set of links: - retention_policy#edit - 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. The set of values: - ALLOW - 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. The set of values: - ALLOW - 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. 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). The set of values: - AUTOMATIC - MANUAL - MANUAL_OPTIONAL.
child_classification_code_mode	String	Child entity classification code generation.
timestamped	<a href="#">String - DateTime</a>	Date and time when the entity was last timestamped.

## 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). The set of values: - AUTOMATIC - MANUAL - 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). 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. The set of values: - 400: Invalid request. - 401: Invalid authentication. - 404: Object does not exist. - 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>
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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). The set of values: - C - I (default value) - 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). The set of values: - C - I (default value) - 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: - CLASS - DOCUMENT - 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: - BASE16, - BASE64.
entity_id_type	String	Type of entity identifier. The set of values: - ID192, - ID256.
object_id_encoding	String	Encoding entity object identifiers. The set of values: - BASE16, - BASE64.
object_id_type	String	Type of entity object identifier. The set of values: - ID192, - ID256.
object_staging_id_encoding	String	Encoding object identifiers. The set of values: - BASE16, - BASE64.
object_staging_id_type	String	Type of object identifier. The set of values: - ID192, - 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:	
		<b>Value</b>	<b>Description</b>
		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

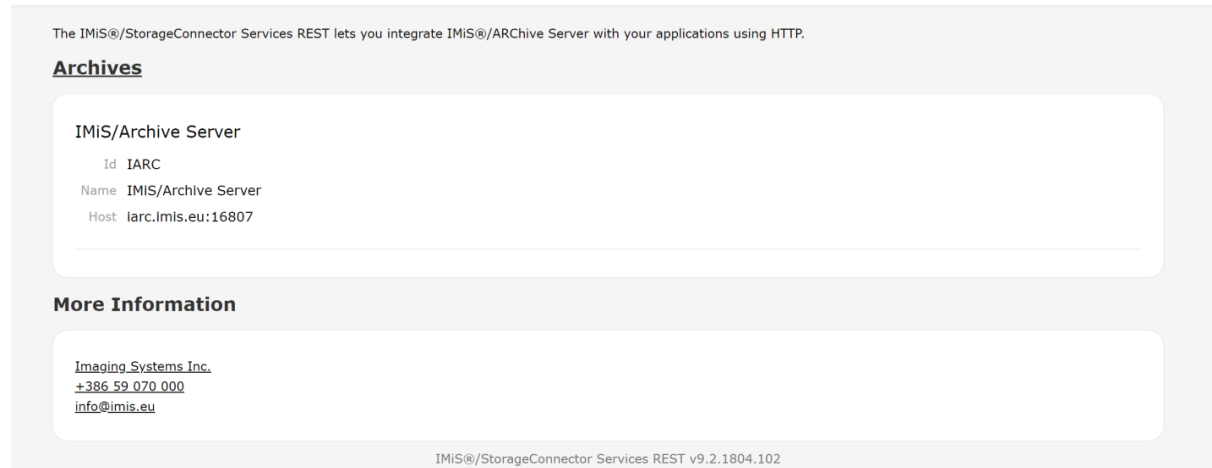


Image 2: Start page of REST interface

## 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). Default value "/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/dispensed.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/zVxFLcTzANBgkqhkiG9w0BAQsFADBFMRcwFQYDVQQDDA5pYXJjOTgualWlpcy5zaTEQMA4GA1UE
CwwHU2VydMvYyczElMCMGA1UECgwcSU1pUy9BUkNoaXZlIFN0b3JhZ2UgU2VydMvYyczElMAkGA1UEBhMCVVMwHhcNMTcw
NDI4MTM0NzIzWhcNMjcwNDI4MTM0NzIzWjBFMRcwFQYDVQQDDA5pYXJjOTgualWlpcy5zaTEQMA4GA1UECwwHU2VydMvY
yczElMCMGA1UECgwcSU1pUy9BUkNoaXZlIFN0b3JhZ2UgU2VydMvYyczElMAkGA1UEBhMCVVMwggEiMA0GCSqGSIb3DQEB
AQUAA4IBDwAwggEKAoIBAQC8Qwe0A7HFptN90sqM7SDgDDFaFyuWvEqPMEDsROu/fhHwe4EQ015jVfdEmSo+PUDfrjGy
Vle1BoRnHURBlK97tyjoRD2R5dYYM9yC9MzkcuL+OD1td7eOs08m/Vg2MYUjK+z6IG3NhkoPC0swBdlXIUhZHmNPITr
b3Ivetknahq5wCXiOzx5DIWhbsaHBoAZx5wim9QDj57XSqpDkG2mvu7uvm0vs8Bn3RsbSe7Zn3sDmw/lmlbw6I0NoHcm
qcELwaEw9uFVraxsfQhbqWdn6AzryI7ZvBua+Zp00IgzokryUck+kRzURCTVvpq2cJV08zc1NjMok80JjQD3k2pBAGMB
AAEwDQYJKoZIhvcNAQELBQADggEBAFRemIteuwlDeOnoiI4+9SKovN3ypJAYVih4dgIht6OVPK8pt/b+cI/KuvvZqwcj
x/VG
vLmTGh8Mx0e3HRxE5YoarMuUCC/or2veEs5VK918z0qlEKsysNfy5GSg1OEB4Ijtz9rthQdiKynvHY9TR0MSTT+wCnhb
1VNni8yey6fRfNUamECsZloySkCDTDbDgf/+bAXa2ld06mxxpgWbj4gbdIpU715gftDFe+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. The set of values: - C: Classification code in the canonical form. - E: External identifier of the entity. - I: Internal identifier of the entity. - H: Temporary identifier of the open entity (handle). - c: Classification code in the canonical form and in Base64 encoding. - 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.

and

**GET archives/{archiveId}/entities.csv**

Entity collection read on the archive root in the CSV format.

and

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

Child entity collection read in the CSV format.

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	<p>Filter defines the scope of the entity information (optional). If the “fields” parameter has been sent, this parameter does not apply.</p> <p>The set of values:</p> <ul style="list-style-type: none"> <li>- all: All public information and links to the entities.</li> <li>- links: Links to the entities.</li> <li>- props: Public information on entity properties.</li> <li>- templates: Templates for child entities creation.</li> </ul>
--------	--------	---

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	The sort key of the collection (optional). The set of values: <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	The sort order of the collection (optional). Valid only if the “sort” parameter exists. The set of values: <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	<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. The user can define which properties of entities are contained in the response.</p> <p>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> <p>Example of defining the properties of CSV format:</p> <pre>type,id,template,title,Review Trigger,Time,Date Time,String 200,INT8,retention</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	<p>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).</p>
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](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" : "Y7UiszrpzfcYpUoCA4cvM90XiNLZI1J2tDCHbslVvEo",
    "links" : [{
      "type" : "entity",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Y7UiszrpzfcYpUoCA4cvM90XiNLZI1J2tDCHbslVvEo.json"
    }, {
      "type" : "entity:stub",
      "uri" :
      "https://apps.imis.eu/scsvc/archives/IARC/entities/I:Y7UiszrpzfcYpUoCA4cvM90XiNLZI1J2tDCHbslVvEo/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
}
```

**Example of an entity collection read in the CSV format**Request

GET

https://apps.imis.eu/scsvc/archives/IARC/entities.csv?fields=Id,Title,PublicClassificationCode,Created

Request header

Authorization: Bearer

ZTY3ZjU4YmltNGEYni00YzU1LWlOMmltMTVIOTVYzBiMGVkl2lhcmMxMDI

Response

```
Id;Title;PublicClassificationCode;Created
wbEepinOwdbo0FyZhpTm--HpIlHvyC7X;Production;1;2020-02-25T15:33:51.138+0100
j-sLJHl212m_zkKJH3yo7T4WTHAwc86b;Development;14;2020-03-19T11:23:37.720+0100
JLPpHhU5ml2eDSv0KifStSwEzJ6EWELS;Support;15;2020-04-28T11:32:13.576+0200
4s-K2adKg-SjYFERx-m18oM6T5lh9204;Other;16;2020-06-02T16:39:43.386+0200
SJRo2hnsGZN2ph3BCY-xxnw1Pkv9soyR;SAP;24;2020-11-23T15:03:46.426+0100
UI5xIqUKX70ano1FhnLNNnV_G2TJTR71;Administration;3;2020-02-19T13:17:14.000+0100
nHOKSqMzOpSDsBlG4Vvd17KEou2EtV5k;Maintenance;30;2021-05-26T11:54:58.319+0200
P00wI60NHOfDc-RTT8uvSI3srRAoZE;Supply Chain management;33;2021-12-16T11:28:26.865+0100
```

**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 entitites",

```

```

    "links" : [{
      "type" : "disposition_hold#delete",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/NoDrt8_b4hXW4IWmfkXcJP6iTKNKa_5j9phT_bGNR
H0/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/scsvs/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
 UXKS1sRbKdDAdkfy39sn44/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/120341b055d0cbe1999576831844fal1f0328e1ff0
ab256a668433782de506ea0/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
  }, {
    "type" : "retention_policy#delete",
    "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/I20341b055d0cbe1999576831844fal1f0328e1ff0
ab256a668433782de506ea0/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+MVBY81K/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_kTGTx8kIGl9s/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/scsvs/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/scsvs/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
        }, {
          "type" : "retention_policy#delete",
          "uri" :
"https://apps.imis.eu/scsvs/archives/IARC/entities/g3kNhfhPtrIBwVYQSmI59IyuBKPyHN_kTGTx8kIG19s/retention/policies/AywTRqKdetY4sSZhfzUNuhA-4_raqO601b01C_r4Ipw.json"
        }
      ]
    }
  ],
  "disposition_holds" : [{
    "id" : "pmn03Bze3jqedwBHlfOjIvMeZveMRzX5_T27QH8sQC4",
    "uri" :
"https://apps.imis.eu/scsvs/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/scsvs/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/scsvs/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" : "pmn03Bze3jqedwBH1fOjIvMeZveMRzX5_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/scsvc/archives/IARC/directory/jerryturner/avatar",      "id" :
"jerryturner",
      "last_name" : "Turner",
      "uri" : "https://apps.imis.eu/scsvc/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/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/acl.json"
    }, {
      "type" : "entity:audit_log",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/audit_log.json"
    }, {
      "type" : "entities",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/entities.json"
    }, {
      "type" : "nonrepudiation",
      "uri" :
"https://apps.imis.eu/scsvc/archives/IARC/entities/pwiTTaNBqxXPpS_15cySkctGb0PZPsrKPjjT-
LHsk8Q/nonrepudiation.json"
    }, {
      "type" : "search",
      "uri" :
"https://apps.imis.eu/scsvc/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. The set of values: - id.
sort_order	String	The sort order of the collection (optional). Valid only if the "sort" parameter exists. The set of values: - asc: Ascending (default value) - 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. The set of values: - id.

sort_order	String	The sort order of the collection (optional). Valid only if the “sort” parameter exists. The set of values: - asc: Ascending (default value). - 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/{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 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/{archiveId}/account/identity/link.json**

### Request parameters

archiveId	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/{archived}/retention\_policies.json**

#### Request parameters

archived	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/ac23f6737512c19a32f75f4948d7d85cba70ce441c5829f31b01aeeae726b75b/copy/l:600c57129a78c7fab1c69082eb76e219659927871a2d6b9f7918027bd6599adf.json?description=03.jpeg>

Request header

Authorization: Bearer c7611e4a-45f8-451f-81ca-2eb6755b3295

## Response

```
{
  "object": {
    "id": "f808e55bafe2979c57946b0e852bf8b365852af80326dd6ca573bb27e7bed07b",
    "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

**PUT archives/{archiveId}/entities/H:{id}/create\_sessions/{sessionId}**

### Request header

Authorization: Bearer [session token]

Content-Range: [beginning of content part in bytes]-[end of content part in bytes]/[full content size or the character '\*']

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 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": "xEcfgfXmlzN4koumXrX1tDhuyiaWsL7E",
      "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": "xEcfgfXmlzN4koumXrX1tDhuyiaWsL7E",
      "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": "xEcfgfXmlzN4koumXrX1tDhuyiaWsL7E",
      "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/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": "2019-10-07T15:00:09Z",
  "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"
  }
},
{
  "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": "X6LJA17GRZsdQf667CJ0vjLW3ZHtlrff",
  "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/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": "2019-10-07T14:59:58Z",
  "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": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrF",
    "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": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrF",
    "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": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtlrF",
    "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": "X6LJAl7GRZsdQf667CJ0vjLW3ZHtrfF",
    "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": "PQkq8EKZ9ADkOZDF9I3WfspTldCrpGSX",
    "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). If the "fields" parameter has been sent, this parameter does not apply. The set of values: - all: All public information and links to the entities - links: Links to the entities - props: Public information on entity properties - 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). The set of values: <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. The set of values: <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. <i>Example:</i> 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. Default value is false, if the classes or folders exists; otherwise true (optional).
Folders	Boolean	Specifies whether the response contains folder-type entities. Default value is false, if the classes or folders 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).
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). The set of values: - sys:Title: The title of the entity. - sys:ClassificationCode: The classification code (default value). - sys:Creator: The author of the entity. - sys:Owner: The owner of the entity. - sys:Opened: Date and time of the entity open. - sys:SecurityClass: The security class of the entity. - sys:Status: The status of the entity. - sys:Significance: The significance of the entity.
sort_order	String	The sort order of the collection (optional). Valid only if the "sort" parameter exists. The set of values: - asc: Ascending (default value). - desc: Descending.

fields	String	Defines the fields in the reply (optional). <i>Example:</i> 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/{archivelid}/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\_kLWwGGkQ0cn5aadkIPV7RfvhleeGZY/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/{entityIdKind}:{id}/references.json**

The set of entityIdKind 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": []
}, {
  "id": "7i4QHR5OcoMJzyr8EglUp5wGr3TS00ez",
  "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/{archiveId}/entities/{id}/references.json`

and

**POST** `archives/{archiveId}/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). The set of values: - sys:Title: The title of the draft. - sys:Creator: The creator of the draft. - sys:Owner: The owner of the draft. - The unique identifier of the property.
sort_order	String	The sort order of the collection (optional). Valid only if the »sort« parameter exists. The set of values: - asc: Ascending (default value). - 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. <i>Example:</i> 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\\_zVuYalvl\\_u\\_Dm2IYlwBDVKaDSw/check\\_out.json](https://apps.imis.eu/scsvc/archives/IARC/entities/aLZs6_zVuYalvl_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/OAcjeLqDLCyQDkT4BLpZKlItDkYRVoCl/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-R3BspILxcHEDOVdIL-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). If the “fields” parameter has been sent, this parameter does not apply. The set of values: - all: All public information and links to the entities. - links: Links to the entities. - props: Public information on entity properties. - 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). The set of values: - sys:Title: The title of the entity. - sys:ClassificationCode: The classification code of the entity (default value). - sys:Creator: The creator of the entity. - sys:Owner: The owner of the entity. - sys:Opened: Date and time of the entity status change to Opened. - sys:SecurityClass: The security class of the entity. - sys:Status: The status of the entity. - sys:Significance: The significance of the entity. - The unique identifier of the property.
sort_order	String	The sort order of the collection (optional). Valid only if the »sort« parameter exists. The set of values: - asc: Ascending (default value). - 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. <i>Example:</i> 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). If the “fields” parameter has been sent, this parameter does not apply. The set of values: - all: All public information and links to the entities. - links: Links to the entities. - props: Public information on entity properties. - 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). The set of values: <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. The set of values: <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. Example: 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). The set of values: - sys:Title: The title of the entity. - 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). The set of values: - asc: Ascending (default value). - 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. <u>Example:</u> entities(id,title,modified, effective_rights, description,type), 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/scsvc/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/{archiveld}/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). The set of values: - sys:Title: The title of the entity. - sys:ClassificationCode: The classification code (default value). - sys:del:Date:Time: Date and time of the entity deletion. - metadata identifier.
sort_order	String	The sort order of the collection (optional). Valid only if the "sort" parameter exists. The set of values: - asc: Ascending (default value). - 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-Y94neJUmlC3oAS0St\_m\_-lv1jz.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-Y94neJUmlC3oAS0St_m_-lv1jz",
    "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/urMMVFNpVZCBqIFi1Gx6vPvToHCklbE4/audit\_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). The set of values: - sys:Title: The title of the entity. - sys:ClassificationCode: The classification code (default value). - sys:del:Date:Time: Date and time of the entity deletion. - metadata identifier.
sort_order	String	The sort order of the collection (optional). Valid only if the »sort« parameter exists. The set of values: - asc: Ascending (default value). - 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",

```





```

    "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.

## **5.23.9 Creating a multipart content upload session**

The operation creates a session for uploading content by parts. Multipart content upload 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 multipart content upload session (the entity close operation deletes all multipart content upload sessions).

#### Request

**POST** archives/{archiveId}/objects/create\_sessions.json

#### Request header

Authorization: Bearer [session token]

#### Request content

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.

## **5.23.10 Content upload in the multipart content upload session**

The operation adds content to the multipart content upload session. 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

**PUT archives/{archiveId}/objects/create\_sessions/{sessionId}**

### Request header

Authorization: Bearer [session token]

Content-Range: [beginning of content part in bytes]-[end of content part in bytes]/[full content size or the character '\*']

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.

## **5.23.11 Saving content in the multipart content upload session**

The operation saves the content from the multipart content upload session to unstructured storage. After a successful save, the multipart content upload session is removed.

### Request

**POST** `archives/{archiveId}/objects/create_sessions/{sessionId}/save.json`

### Request header

Authorization: Bearer [session token]

### 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.

## **5.23.12 Canceling the multipart content upload session**

The operation deletes the multipart content upload session.

### Request

**DELETE** archives/{archiveId}/objects/create\_sessions/{sessionId}.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.

## **5.24 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). 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). 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.imisarchive.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.