



EESSI – RINA

Archiving Specifications

Architecture & Design Specifications

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		Adapt the document overview accordingly (" <i>1 Archiving overview/1.1 Foreword</i> "), in order to point out that the cases are currently archived in the SQL DB.

1 Archiving overview

1.1 Foreword

RINA 2020 brings a new enhancement regarding the message archiving to benefit from the migration to a relational DB – PostgreSQL. The improvement consists in replacing the storage of archives from files on disk to data in the Rina SQL database. This means the archives are not anymore present as files on disk, instead the archived cases and documents will be flagged as archived in the new SQL database.

Data archiving is the process of marking data as archived in the database (for “case” data) or moving data (for xml messages) that is no longer active to a separate storage device for a longer term retention. Archive data consists of older data that is still important to the organization and may be needed for future reference, as well as data that must be retained for regulatory compliance.

The main aim of Data Archiving is in cases where litigation situations are involved or in cases where sensitive data exists; this will store the latter as read-only in order to prevent it from any data tempering.

1.2 Data archiving benefits

Expected benefits of archiving include:

- **Reduced costs.** Data archiving is largely, though not exclusively, an effort to lower costs. This is measured as cost / gigabyte stored.
- **Compliance.** Governmental requirements and legal liability are key reasons to implement a data archiving strategy;
- **Knowledge retention.** In an era of big data, organizations are learning the value of analysing vast amounts of data. Here, the consideration isn't cost, but the desire to gain a competitive edge in the marketplace;
- **Improved performance.** By reducing the amount of data to manage, or partitioning unused data from active data, organizations may see substantial improvement in system performance.

1.3 Minimal requirements¹for preservation of data / archiving

A comprehensive archive policy must exist. This is a formalized set of procedures dictating the rules for the archival process.

Archiving shall meet at minimum the following data archiving requirements:

- Suitability for long-term preservation
 - Use of industry-standard and publicly available file formats
 - Migration of media
 - System change management

¹See ISO 14641-1:2012 - *Electronic Archiving – Part 1: Specifications concerning the design and operation of an information system for electronic information preservation*

- Integrity
 - Guaranteed by storage on media:
 - Physical read-only /Write Once Read Many (here under “WORM”);
 - Logical read-only /WORM on fixed media with events log and techniques and procedures for detection and prevention of substitution of input;
 - Logical read-only /WORM on removable media;
 - Capture process of archives.
- Security
 - Access / Authentication management
 - Backup of archives
 - Controlled archiving operations (identification & traceability)
 - Continuity of access to archives
- Traceability
 - Date and time stamping
 - Maintenance of a technical file (archival policy, standard, general condition of services, lifecycle of document, etc.)
 - Maintenance of audit trail of archives lifecycles and events log.

2 EESSI RINA Scope and Domains of applicability

2.1 Scope

The scope of archiving consists in all the cases (including attachments and portable documents) for which the status has been set up to “closed” (local or global “closed”) or forwarded (including when the participant is removed from respective case) and messages sent or received.

For these cases and messages, the archival process timer, retention period, and archive repository/location can be specified through a decision table in which the above mentioned parameters can be set up depending on the Sector, BUC Type and Application Role.

2.2 For the cases to be archived the related documents (sent and received) will be archived. Domains of applicability

The domains of applicability for archiving consist in the local RINA implementation.

3 Common RINA Archiving principles

There are four ways by which a case can be archived:

- Firstly once a case has been removed, which is achieved by forwarding the case to another participant (X007 SED).
- Secondly by removing it, by sending/receiving an X006 SED.
- Thirdly when it has been closed, by sending/receiving an X001 SED.
- Finally by executing a local close, but in this case this depends on the type of BUC involved.

A case in the above statuses may be archived by:

- Directly by a clerk, who needs to execute the action 'Archive' in the case window.
- Secondly it is performed automatically when the case is in the 'removed/closed' status and has expired the retention period.

The retention period can be set via the RINA administration portal under *RINA Archiving -> Archiving Policies -> Default Period (days)*.

When a case is archived, it becomes obsolete. It is only visible for searching purposes, it then only displays some context information about that case, including its *archived* status. The case has to be then *unarchived* if further information is needed such as reading/editing the SED, comments, attachments etc.

3.1 Message archive approach and configuration

3.1.1 Approach

The messages sent and received will be archived (zipped) following the approach depicted in the table below:

File to archive	File / folder name	Archive name
Received messages		
Message	<received_message_name.xml>	<received_message_name.xml> + ".zip"
Payload files	<received_payload_file_name.xml>	<received_payload_file_name.xml> + ".zip"
Sent messages		
Message	<sent_message_name>	<sent_message_name> + ".zip"
Payloads folder	<sent_payloads_folder_name>	<sent_folder_payloads_name> + ".zip"

An illustrative example of the above approaches are presented below:

RECEIVED MESSAGES

- To be archived (message file and payload file):
 - **Message file:** 1dead413-1a6d-4916-ba7c-45ef1d9282ed@10.1.0.6_SED_IN_6b65257b-fe2c-42a5-9163-d689410a0904.xml
 - **Payloads file:** pl-1dead413-1a6d-4916-ba7c-45ef1d9282ed_10.1.0.6-6b65257b-fe2c-42a5-9163-d689410a0904.xml
- Archived:
 1. 1dead413-1a6d-4916-ba7c-45ef1d9282ed@10.1.0.6_SED_IN_6b65257b-fe2c-42a5-9163-d689410a0904.xml.[zip](#)
 2. pl-1dead413-1a6d-4916-ba7c-45ef1d9282ed_10.1.0.6-6b65257b-fe2c-42a5-9163-d689410a0904.xml.[zip](#)

SENT MESSAGES

- To be archived (message file and folder which contains the payloads):
 1. **Message file:** 6cf6fe42-fe10-452d-a937-4ecff8190ef6@127.0.1.1.accepted
 2. **Payloads folder:** 6cf6fe42-fe10-452d-a937-4ecff8190ef6@127.0.1.1_payload_out
- Archived:
 1. 6cf6fe42-fe10-452d-a937-4ecff8190ef6@127.0.1.1.accepted.[zip](#)
 2. 6cf6fe42-fe10-452d-a937-4ecff8190ef6@127.0.1.1_payload_out.[zip](#)

3.1.2 Configuration

In Holodeck B2B there is an option to log the SOAP envelope of all received and sent messages

On the AS4 messaging level the SOAP envelopes are archived and this ensures that only meta-data and no personal/sensitive data is archived.

The archiving of the SOAP envelopes is now done using the Log4j framework, so the configuration of the archiving is done through the log4j configuration as below settings (in the conf/log4j.properties file for Holodeck B2B):

SOAP ENVELOPE LOG INBOUND

```
log4j.appender.soapenv_in_FILE=org.apache.log4j.RollingFileAppender
log4j.appender.soapenv_in_FILE.File=logs/soapin.log
log4j.appender.soapenv_in_FILE.MaxFileSize=5120KB
log4j.appender.soapenv_in_FILE.Append=true
log4j.appender.soapenv_in_FILE.layout=org.apache.log4j.PatternLayout
log4j.appender.soapenv_in_FILE.layout.ConversionPattern=%d{ISO8601} - %m%n
```

SOAP ENVELOPE LOG OUTBOUND

```
log4j.appender.soapenv_out_FILE=org.apache.log4j.RollingFileAppender
log4j.appender.soapenv_out_FILE.File=logs/soapout.log
log4j.appender.soapenv_out_FILE.MaxFileSize=5120KB
log4j.appender.soapenv_out_FILE.Append=true
log4j.appender.soapenv_out_FILE.layout=org.apache.log4j.PatternLayout
log4j.appender.soapenv_out_FILE.layout.ConversionPattern=%d{ISO8601} - %m%n
```

LOGGERS

The loggers to configure are:

- `log4j.logger.org.holodeckb2b.msgproc.soapenvlog.IN` and
- `log4j.logger.org.holodeckb2b.msgproc.soapenvlog.OUT`

for received respectively sent messages.

The log level should be INFO to enable the logging or higher to disable it.

SOAP ENVELOPE LOGGERS

```
log4j.logger.org.holodeckb2b.msgproc.soapenvlog.IN=INFO, soapenv_in_FILE
log4j.logger.org.holodeckb2b.msgproc.soapenvlog.OUT=INFO, soapenv_out_FILE
```

APPENDERS

Currently these logs use a `RollingFileAppender` which are used to specify the place where the logs should be created. (through the use of appenders config).

```
log4j.appender.HibFILE=org.apache.log4j.RollingFileAppender
log4j.appender.HibFILE.File=logs/hibernate.log
log4j.appender.HibFILE.MaxFileSize=5120KB
log4j.appender.HibFILE.Append=true
log4j.appender.HibFILE.layout=org.apache.log4j.PatternLayout
log4j.appender.HibFILE.layout.ConversionPattern=%d{ISO8601} [%-5p] %c %x -
%m%n
```

3.2 Archiving locations

Archived messages are saved in volumes configured by RINA administrators. Those volume can be configured in the Admin Portal or by using the CPI (information under section 6.1.2 and "RINA - Case Processing Interface (CPI) – Reference" documentation).

Error! Reference source not found. The configuration sets the file path and the maximum number of cases to be stored per volume. There are configurations for Message Archiving.

² `org.apache.log4j` - Class `RollingFileAppender`:
<https://logging.apache.org/log4j/1.2/apidocs/org/apache/log4j/RollingFileAppender.html>

4 Functions, use cases and actors

4.1 Actors

The actors used in the RINA archiving management interface will be the following:

- **RINA Administrator** who will manage the parameter of the archiving interface.
- **RINA Clerk**³ who will manage archiving actions for cases on which he is owner or have the right to perform such actions
- **RINA Automated Archiving system** is an automated process which performs the archival based on some defined triggers.

4.2 Functions

The main function related to RINA archiving interface management are:

- Archiving policy management;
- Archiving alert/notifications*;
- Archiving process management.

***Note:** *The implementation of the notifications management function is done within the service & data contracts related to the archiving repositories*

4.3 Use cases

The use cases for the RINA Archiving parameters management functions are:

Archiving policy management:

- Case archive timers' management definition;
- Message archive retention periods management definition;
- Archiving repository location definition;

Archiving alert/notifications management:

- Alert / notification in case of unavailability of storage space.

Archiving process management⁴:

- Automatic case archiving;
- Automatic message archiving;

³The RINA Clerk is having an indirect role in archiving. The archiving process is always automatically triggered after closing a case. The RINA Clerk is the only actor who can execute a local or global close of a case which further on will trigger the archiving process for the respective case.

⁴Additionally, to the actions mentioned here there is also the Automatic archiving which is triggered when the case status is changed to closed or forwarded (including the situations when participant is removed). In this cases the archiving process is triggered when the specific archiving timer (specific to each BUC type) is done.

- Retrieving information about a case in scope of archival process
- Manual case archiving;
- Manual case un-archiving;

Note: *The automatic process for archiving is triggered by closing case process (local / global close). Depending on the Sector, BUC Type and Application Role the respective case and messages in scope of archival can have different trigger timers for archiving. Also, it can be associated to trigger (configurable) timers for message retention.*

*The archiving process will trigger also a change in the case status which will be updated to "**archived**".*

5 Behaviour - state machines

5.1 Case state machine

The case state machine is used to keep track of the case state on either the case owner or the counterparty/ies sides:

- **Open** – In this state the sender party (case owner) creates the case and the receiver party (counterparty) opens the case for the first time. After all the work is done on this particular case, the involved participant may close it. If other participant should be responsible for this case from now on, an existing participant can forward the case. If the case owner is not interested anymore in the case. The case can be deleted if no SEDs have been exchanged. When deleted, a case is removed from the system and it has no specific status. This action cannot be reversed and the Case cannot be undeleted
- **Closed** - The participant closed the case, from this state the case can be opened again; also un-archiving a case which was closed will bring the case from archived back to a closed status;
- **Removed** - When a case has been forwarded to another participant or own participant has been removed and is no longer part of the case; in the latter case, the case will be read-only;
- **Archived** – A case is archived either automatically by the system following normal archiving process (following case closing, case forwarding, or case removed participant - according to the defined timers for respective case's BUC Type), or either manually by the user.

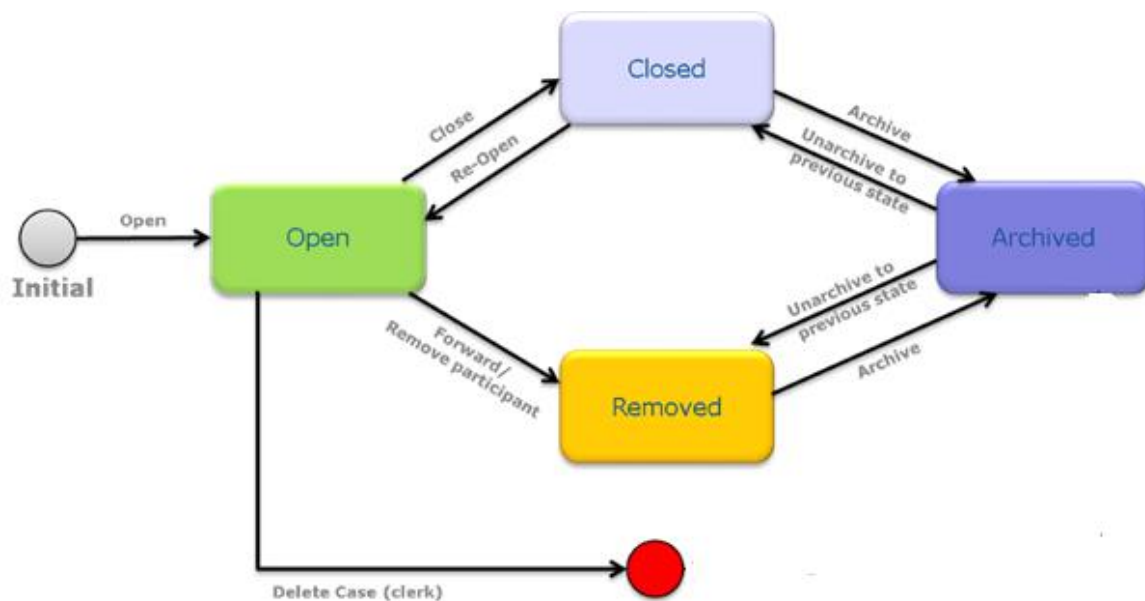


Figure 1: Case state machine

6 Service contract

6.1 Intro

6.1.1 RINA archiving management graph

The Archiving management interface is provided as a RESTful web service that can be modelled with UML where each resource is represented by a class with the stereotype <<resource>> and the URL is constructed by applying dependencies with the stereotype <<path>> between classes

The diagram below shows the UML model for the Archiving management interface:

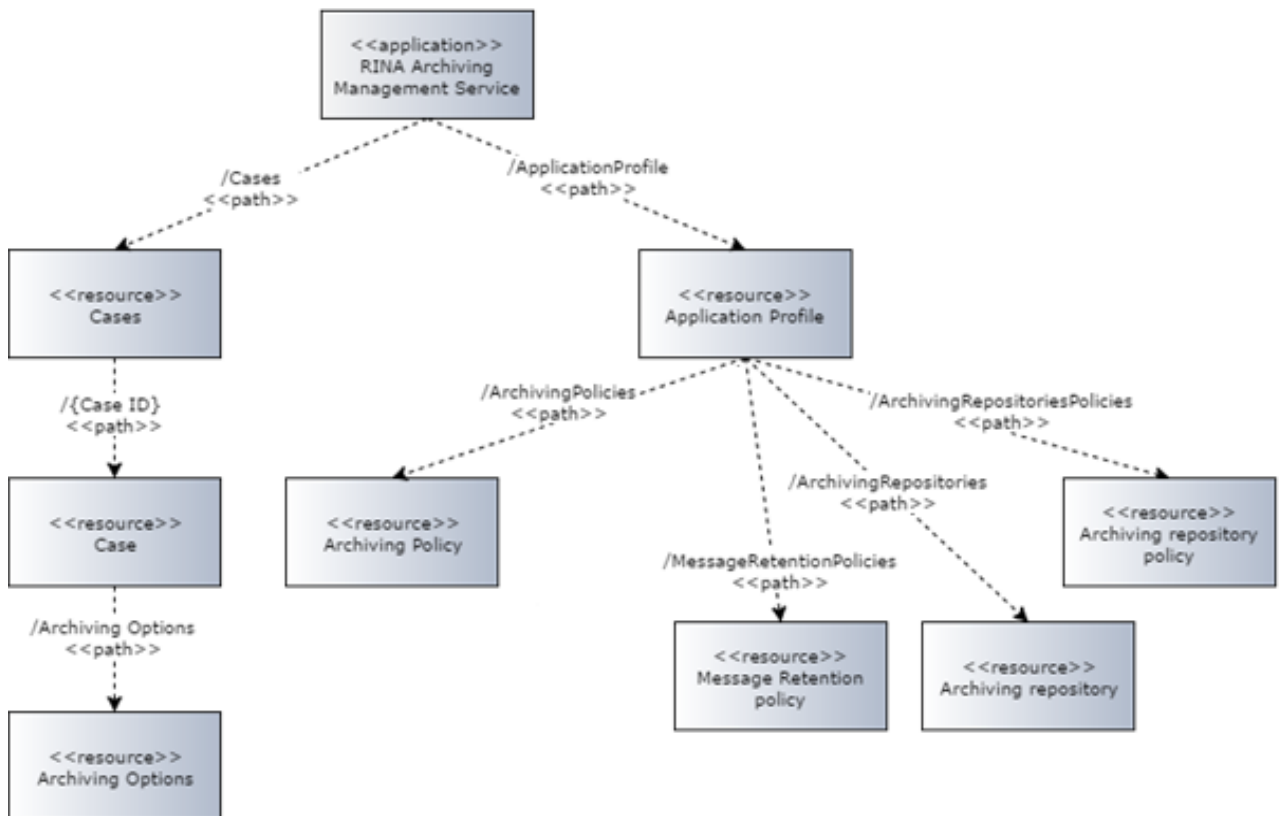


Figure 2 - Archiving management interface UML model

6.1.2 REST API List

6.1.2.1 Archiving policy management API

HTTP Verb	URI Structure	Description
Case archive timers management definition		
GET	/ApplicationProfile/ArchivingPolicies	Retrieve the archiving policy (timers)
PUT	/ApplicationProfile/ArchivingPolicies	Update the archiving policy (timers)
Case archive retention periods management definition (Deprecated)		
GET (Deprecated)	/ApplicationProfile/CaseRetentionPolicies	Retrieve the retention period (archive delete timers) for cases
PUT (Deprecated)	/ApplicationProfile/CaseRetentionPolicies	Update the retention period (archive delete timers) for cases
Message archive retention periods management definition		
GET	/ApplicationProfile/MessageRetentionPolicies	Retrieve the retention period (archive delete timers) for messages
PUT	/ApplicationProfile/MessageRetentionPolicies	Update the retention period (archive delete timers) for messages
Archiving repository location definition		
GET	/ApplicationProfile/ArchivingRepositories	Retrieve the location for archive repository
PUT	/ApplicationProfile/ArchivingRepositories	Update the location for archive repository
Archiving repositories policies location definition (Deprecated)		
GET (Deprecated)	/ApplicationProfile/ArchivingRepositoriesPolicies	Retrieve the location for archive repositories policies
PUT (Deprecated)	/ApplicationProfile/ArchivingRepositoriesPolicies	Update the location for archive repositories policies

6.1.2.2 Archiving process management API

The automatic processes for case archiving and message archiving are managed directly inside the system based on archiving policies, therefore any definition in the below table is not applicable.

HTTP Verb	URI Structure	Description
Retrieving information about a case in scope of archival process		
GET	/Cases/{id}/ArchivingOptions	Retrieve info about the archiving timer and the archive repository location for an archived case
Manual case archiving		
PUT	/Cases/{id}/ArchivingOptions	Manually trigger the archiving process for a specific Case.
Manual case un-archiving		
PUT	/Cases/{id}/ArchivingOptions	Manually trigger the un-archiving process for a specific Case.

7 Data contract

3

7.1 RESTArchivingPolicy

Attribute	Description	Data Type
Id	The ID of the archiving policy / rule	Integer
Sector	The name of the Sector	String
<u>sectorId</u>	<u>The ID of the Sector</u>	<u>String</u>
bucType	The business use case	String
bucTypeId	The business use case ID	String
applicationRole	The application role	String
applicationRoleId	The application role ID	String
policy	The archiving timer used by archiving process. Closed or forwarded cases will be archived after the specific time (specified in days)	Integer

7.2 RESTArchivingPolicies

Attribute	Description	Data Type
defaultArchivingPeriod	The default value use for the default archiving period. By default this value has been set to 90.	Integer
archiveMessages	This flag is use to check whether the messages should be archived or not.FALSE – will not be archived	boolean
archivingPoliciesTable	This collection of ArchivingPolicyDto is used to hold the policies that will be archived.	List<ArchivingPolicyDto>

7.3 RESTCaseRetentionPolicy (Deprecated)

7.4 RESTRetentionPolicies

Attribute	Description	Data Type
defaultMessageRetentionPeriod	The retention timer used by message archiving process. Archived messages will be deleted after the specified timer (in days).	Integer

7.5 RESTArchivingVolume

Attribute	Description	Data Type
archivingVolumeId	Archiving volume identifier	String
archivingVolume	Archiving volume name	String

achivingMinSpaceThreshold	The minimum space threshold per volume for the archiving process (in MB)	Integer
physicalLocations	The physical locations attached to volumes	List<String>

7.6 RESTArchivingRepositories

Attribute	Description	Data Type
defaultMessagesVolume*	The volume used for messages archives	String
archivingRepositoriesList	The decision table containing all the archiving repositories rules	List <RESTArchivingVolume>

* for messages the volume must have only one physical location attached.

7.7 RESTArchivingRepositoryPolicy (Deprecated)

7.8 RESTArchivingRepositoriesPolicies (Deprecated)

Attribute	Description	Data Type

7.9 RESTArchivingOptions

Attribute	Description	Data Type
archived	Flag used for archiving & un-archiving actions. (False – for cases to be archived, True – for archived cases)	Boolean
archivingVolume	The volume of the archive	String
closedRemovedDate	The date when a case changes its status to CLOSED or FORWARDED/REMOVED and the archival process started	Date
archivalDate	The date when a case will be archived (for CLOSED or REMOVED cases) or has been archived (ARCHIVED cases)	Date
deletionDate	The estimated date when a case archive should be deleted.	Date

8 Samples

8.1 Retrieve archiving policies (timers) request sample

GET /ApplicationProfile/ArchivingPolicies

8.2 Retrieve archiving policies (timers) response sample

```
{
  "defaultArchivingPeriod": 90,
  "archiveMessages": true,
  "archivingPoliciesTable": [
    {
      "id": "5baf6e2cd57649ee8af35f774b63337c",
      "sectorId": "1",
      "sector": "PENSION",
      "bucType": "Old Age Pension Claim",
      "bucTypeId": "P_BUC_01",
      "applicationRoleId": "PO",
      "applicationRole": "CaseOwner",
      "policy": 89
    },
    {
      "id": "b461629c03044508a7152cd1cbe9d86e",
      "sectorId": "1",
      "sector": "PENSION",
      "bucType": "Survivors Pension Claim",
      "bucTypeId": "P_BUC_02",
      "applicationRoleId": "PO",
      "applicationRole": "CaseOwner",
      "policy": 90
    },
    {
      "id": "48ea838501fb4715894f1ea741e029a4",
      "sectorId": "1",
      "sector": "PENSION",
      "bucType": "Invalidity Pension Claim",
```

```
"bucTypeId": "P_BUC_03",  
"applicationRoleId": "PO",  
"applicationRole": "CaseOwner",  
"policy": 90  
}  
]  
}
```

8.3 Update archiving policies (timers) request sample

PUT /ApplicationProfile/ArchivingPolicies

```
{  
  "defaultArchivingPeriod": 90,  
  "archiveMessages": true,  
  "archivingPoliciesTable": [  
    {  
      "id": "5baf6e2cd57649ee8af35f774b63337c",  
      "sectorId": "1",  
      "sector": "PENSION",  
      "bucType": "Old Age Pension Claim",  
      "bucTypeId": "P_BUC_01",  
      "applicationRoleId": "PO",  
      "applicationRole": "CaseOwner",  
      "policy": 89  
    },  
    {  
      "id": "b461629c03044508a7152cd1cbe9d86e",  
      "sectorId": "1",  
      "sector": "PENSION",  
      "bucType": "Survivors Pension Claim",  
      "bucTypeId": "P_BUC_02",  
      "applicationRoleId": "PO",  
      "applicationRole": "CaseOwner",  
      "policy": 90  
    }  
  ]  
}
```

```
    },  
    {  
      "id": "48ea838501fb4715894f1ea741e029a4",  
      "sectorId": "1",  
      "sector": "PENSION",  
      "bucType": "Invalidity Pension Claim",  
      "bucTypeId": "P_BUC_03",  
      "applicationRoleId": "PO",  
      "applicationRole": "CaseOwner",  
      "policy": 90  
    }  
  ]  
}
```

8.4 Update archiving policies (timers) response sample

N/A

8.5 Retrieve the cases retention policies request sample (Deprecated)

GET/ApplicationProfile/CaseRetentionPolicies

8.6 Retrieve the cases retention policies response sample (Deprecated)

8.7 Update cases retention policies request sample (Deprecated)

PUT /ApplicationProfile/CaseRetentionPolicies

8.8 Update cases retention policies response sample (Deprecated)

N/A

8.9 Retrieve the messages retention policies request sample

GET/ApplicationProfile/MessageRetentionPolicies

8.10 Retrieve the messages retention policies response sample

```
{  
  "defaultMessageRetentionPeriod": 90  
}
```

8.11 Update messages retention policies request sample

PUT /ApplicationProfile/MessageRetentionPolicies

```
{  
  "defaultMessageRetentionPeriod": 90  
}
```

8.12 Update messages retention policies response sample

N/A

8.13 Retrieve archiving repository location request sample

GET/ApplicationProfile/ArchivingRepositories

8.14 Retrieve archiving repository location response sample

```
{
  "archivingRepositoriesList": [
    {
      "archivingVolume": "Volume default cases",
      "physicalLocations": [
        "/all/archiving/cases/"
      ],
      "archivingVolumeId": "volumeDefaultCases",
      "achivingMinSpaceThreshold": 300
    },
    {
      "archivingVolume": "Volume default messages",
      "physicalLocations": [
        "/all/archiving/messages/"
      ],
      "archivingVolumeId": "volumeDefaultMessages",
      "achivingMinSpaceThreshold": 300
    }
  ],
  "defaultMessagesVolume": "volumeDefaultMessages"
}
```

8.15 Update archiving repository location request sample

PUT /ApplicationProfile/ArchivingRepositories

```
{
  "archivingRepositoriesList": [
    {
      "archivingVolume": "Volume default cases",
      "physicalLocations": [
        "/all/archiving/cases/"
      ],
      "archivingVolumeId": "volumeDefaultCases",
      "achivingMinSpaceThreshold": 300
    },
    {
      "archivingVolume": "Volume default messages",
      "physicalLocations": [
        "/all/archiving/messages/"
      ],
      "archivingVolumeId": "volumeDefaultMessages",
      "achivingMinSpaceThreshold": 300
    }
  ],
  "defaultMessagesVolume": "volumeDefaultMessages"
}
```

8.16 Update archiving repository location response sample

N/A

8.17 Retrieve archiving repositories policies location request sample (Deprecated)

GET /ApplicationProfile/ArchivingRepositoriesPolicies

8.18 Retrieve archiving repository location response sample (Deprecated)

8.19 Update archiving repositories policies location request sample (Deprecated)

PUT /ApplicationProfile/ArchivingRepositoriesPolicies

8.20 Update archiving repositories policies location response sample (Deprecated)

N/A

8.21 Retrieve archival parameter details for a case request sample

GET /Cases/12/ArchivingOptions

8.22 Retrieve archival parameter details for a case response sample

```
{  
  "archived": false,  
  "closedRemovedDate": "2020-12-10T09:57:13.311Z",  
  "archivalDate": "2020-12-10T09:57:13.311Z"  
}
```

8.23 Manually trigger the archiving process request sample

PUT /Cases/12/ArchivingOptions

8.24 Manually trigger the archiving process response sample

N/A

8.25 Manually trigger the un-archiving process request sample

PUT /Cases/12/ArchivingOptions

8.26 Manually trigger the un-archiving process response sample

N/A

9 References

The following references have been used to create this specification and are useful for development:

- ***“ISO 14641-1:2012 Electronic Archiving – Part 1: Specifications concerning the design and operation of an information system for electronic information preservation.”***