

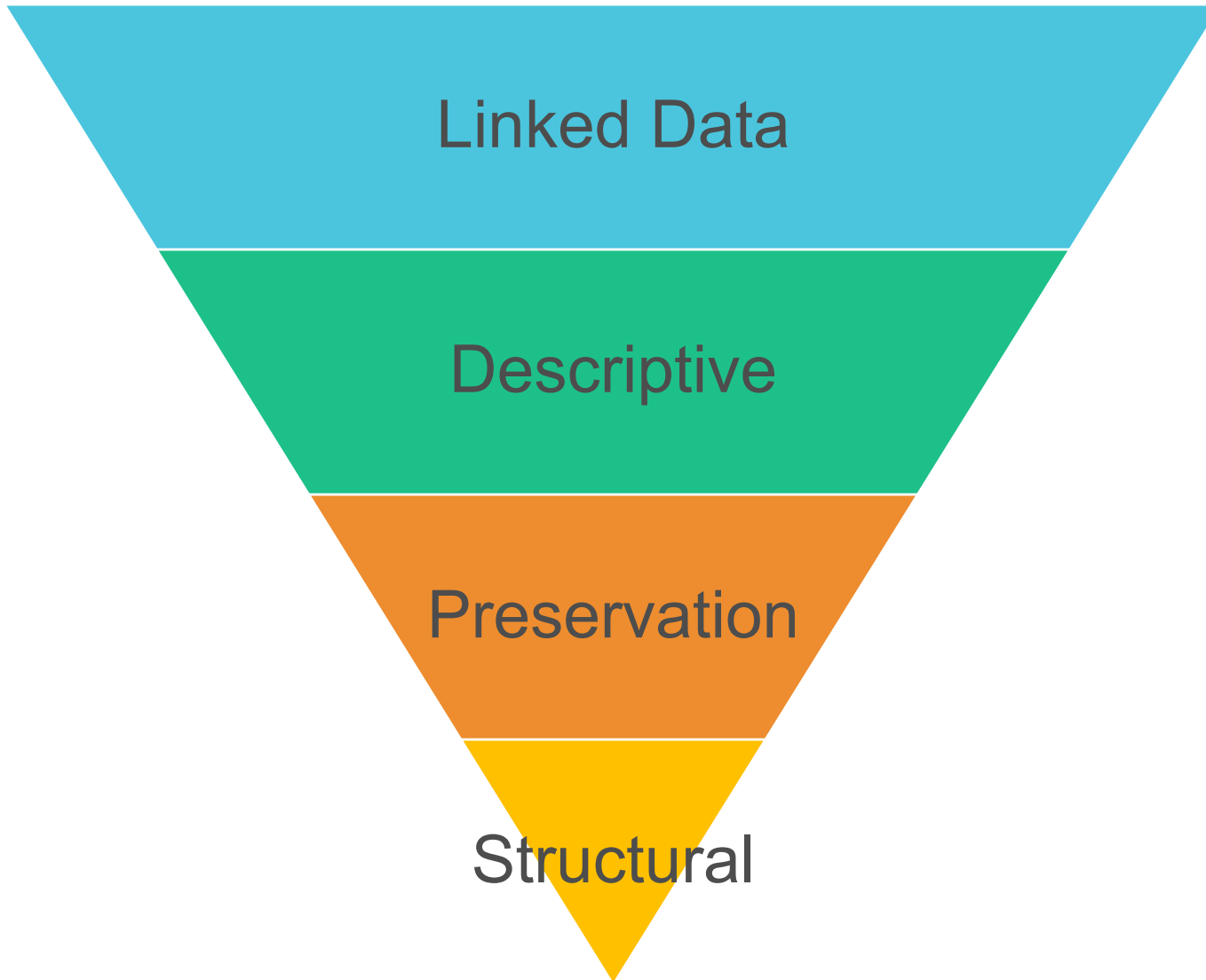


# eArchiving Conformance Seal

A sign of quality of digital archiving; long term preservation; and data management; following standards and best practices.

*Sven Schlarb, eArchiving Summit Day, 25th October 2023, Salamanca, Spain*

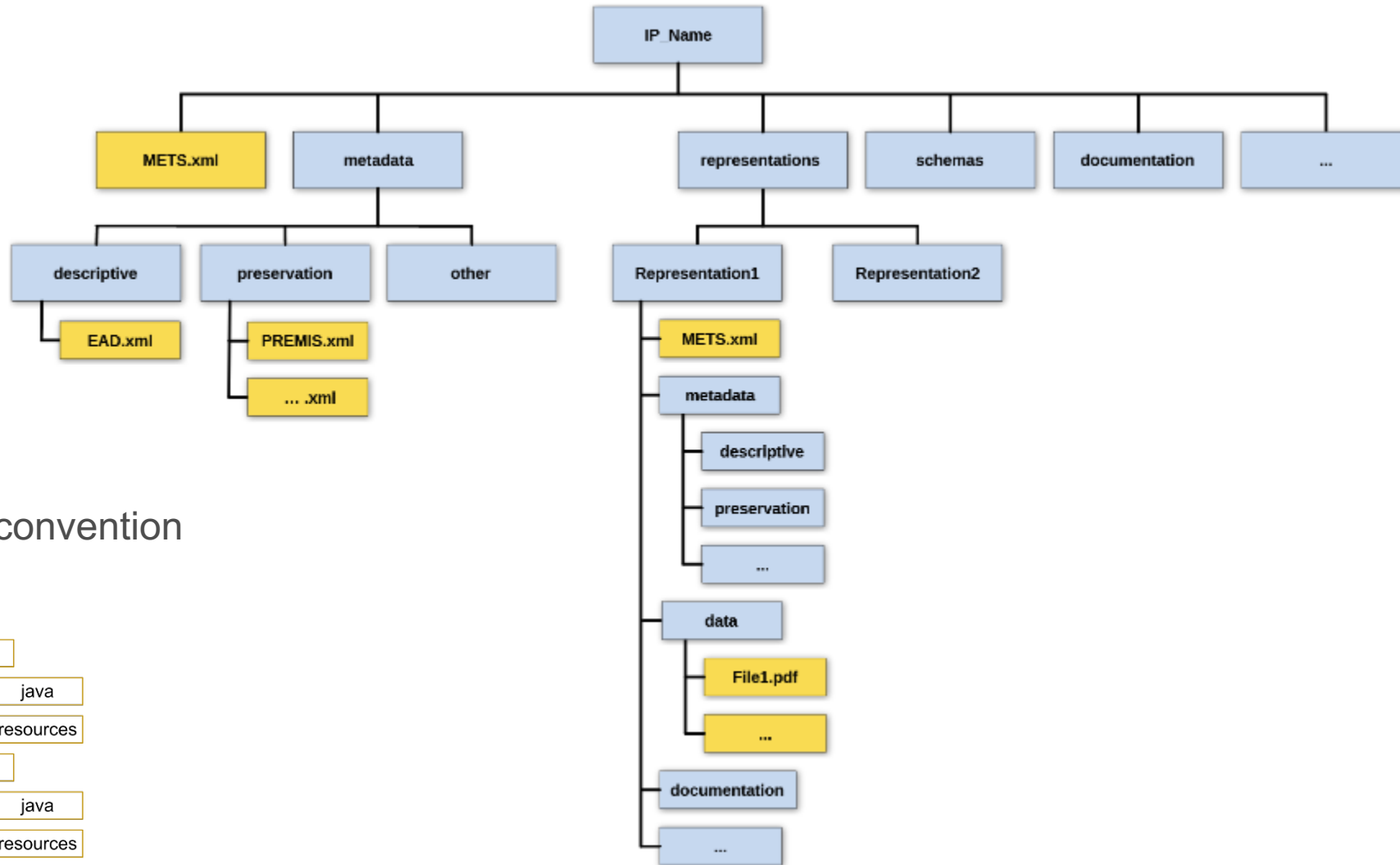
# Goal: Interoperability



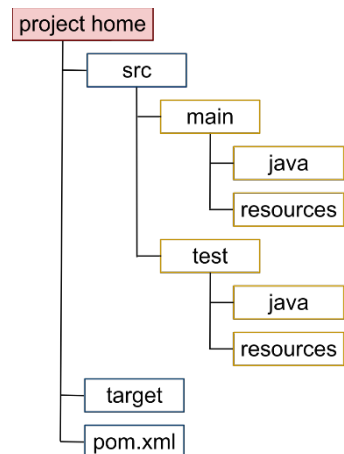
RiC



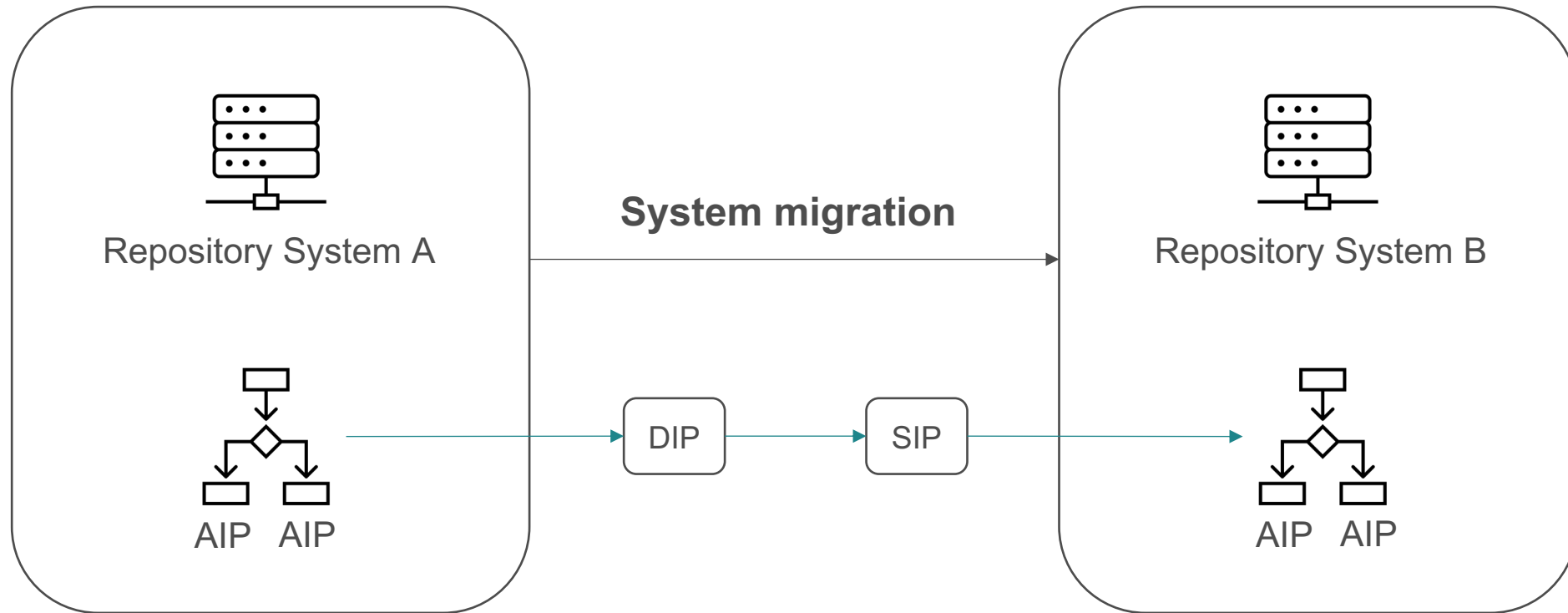
# IP by convention



## Coding by convention

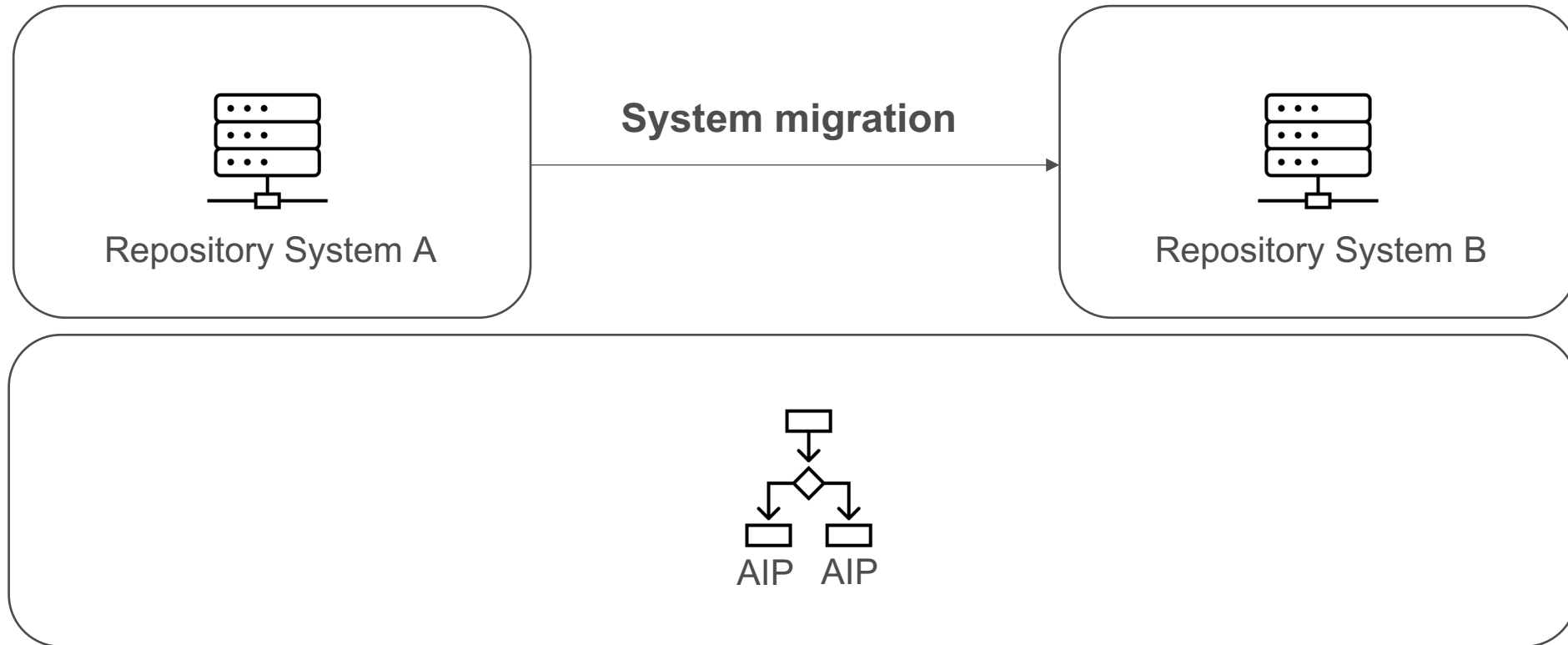


# System migration - OAIS



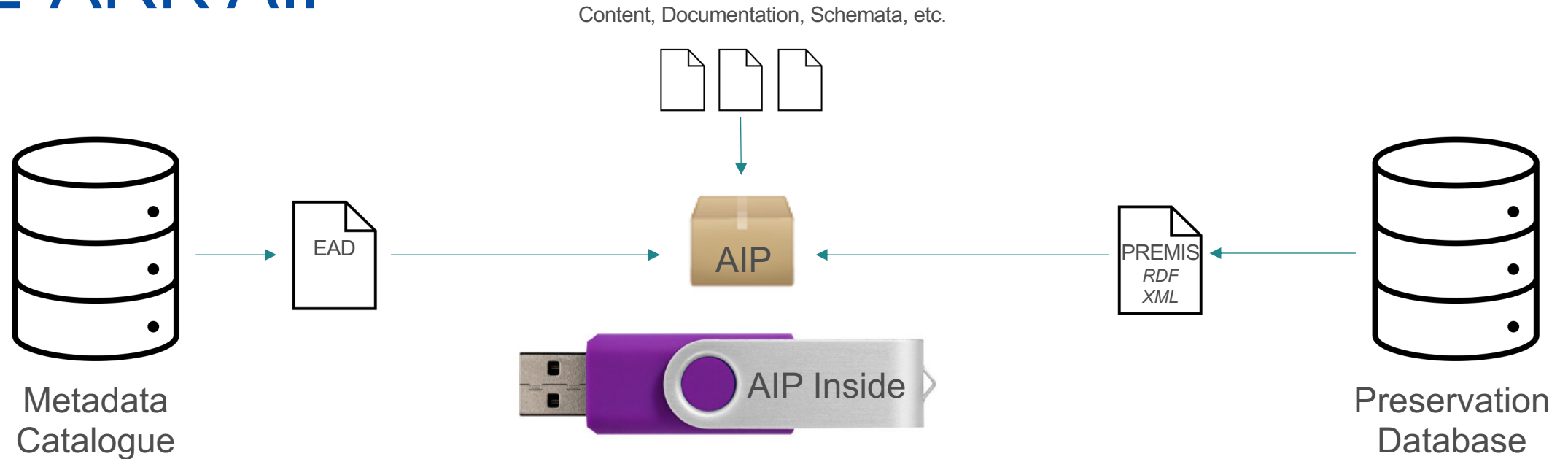
A stored AIP from the source repository is transformed into a DIP which is sent to the receiving repository where it is treated as, or transformed into, a SIP and ingested.

# System migration – Pan-european AIP



The amount of data is growing at a fast pace! ETL and moving data will become expensive!

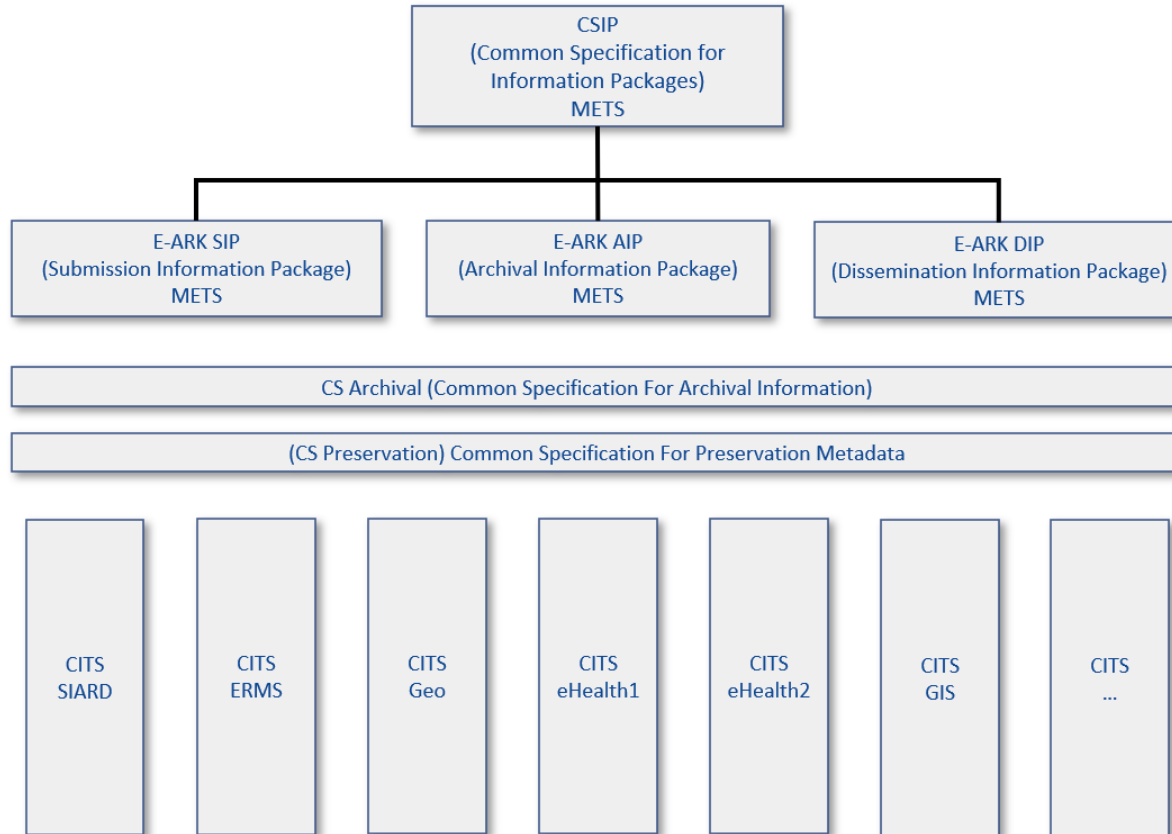
# E-ARK AIP



The purpose of the AIP format is to provide a logical and physical container for E-ARK Information Packages (IP).

The physical information package in form of a ZIP or TAR (TAR.GZ) container is validated.

# Hierarchical Validation Framework



Content-Specific Validators

## E-ARK Specification Test Coverage

Test coverage for the E-ARK Information Package Specifications.

E-ARK CSIP METS Profile  
V2.0.4 2020-06-12T09:00:00

- 133 requirements.
- 101 test cases.
- 147 validation rules.
- 85/353 packages.

WIP

E-ARK SIP METS Profile 2.0  
SIPV2.0.4 2020-06-12T09:00:00

- 35 requirements.
- 8 test cases.
- 18 validation rules.
- 0/40 packages.

WIP

E-ARK DIP METS Profile  
DIPV2.0.4 2020-06-12T09:00:00

- 4 requirements.
- 0 test cases.
- 0 validation rules.
- 0/0 packages.

WIP

# eArchiving Conformance Seal Requirements

<https://seal.e-ark-foundation.eu/requirements/>

CODE	REQUIREMENT
I-1	The digital archive/archival solution shall ingest E-ARK SIP packages.
I-2	The digital archive/solution shall produce a response to the Producer about the result of the ingest process of E-ARK SIPs.
I-3	The archive/solution shall process one or more Metadata Standards used in the information packages.
A-1	The archive/solution shall persist Provenance Information from the point of Ingest as part of the archive's/solution's AIPs
A-2	The archive/solution shall allow exporting or providing access to valid and transferable E-ARK information packages so that these packages with their Provenance Information can be transferred to another E-ARK conformant archive/solution.
D-1	If the archive/ solution produces DIPs from the AIPs, the resultant packages shall be E-ARK conformant.



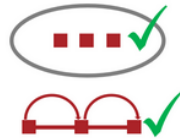
# Process for getting the eArchiving Conformance Seal



## 1. Validation

Validation is the process of **testing a single Information Package (IP)** file for conformance. You can start by verifying if individual information packages of your digital repository or archival solutions are valid by using the **Validation Service** to test if your information packages are conformant with E-ARK specifications.

Validation Service



## 2. Self-assessment conformance

eArchiving conformance of a digital archive or archiving solution includes **to meet the E-ARK requirements for ingest and processing of Information Packages**, in addition to the validation of a representative sample of information packages.

Self-Assessment



## 3. Conformance application review

A brief interview with the eArchiving Team is arranged to review the evidence provided and verify the implementation of **E-ARK requirements for ingest and processing of Information Packages**.

Apply for a Review



## 4. Seal

After successful review the **eArchiving Conformance Seal** is awarded by the European Commission.

# 1. Validation

## eArchiving Validation Service



### E-ARK IP Online Validator

Package: 2833cfae-9f14-4b9f-8162-377949094784

Uploaded On: 2023-06-02 07:07:45

Validation Result: **Conflicted**

The two validators have returned different results.

Validator	Status
Commons-ip Validator	Success
PyIP Validator	Failure

An E-ARK information package validator developed by [KEEPS Solutions](#). Part of the commons-ip project, [hosted on GitHub](#). If you want to report an issue or suggest an improvement please use the [GitHub issue tracker](#).

Structural requirements checks: **PASSED**

ID	Level	Message
CSPT8	Info	If any other metadata are available, they MAY be included in separate sub-folders, for example an additional folder named other.

Metadata requirement Checks: **PASSED**

ID	Level	Location & Message
CSF45	Info	Individual representations should state their specific rights in their representation METS file (2833cfae-9f14-4b9f-8162-377949094784/representations/96c21b81-2b9d-4662-939c-973f7a654d0b/METS.xml) Individual representations should state their specific rights in their representation METS file (2833cfae-9f14-4b9f-8162-377949094784/representations/d3791f49-1a6e-4735-974f-9a770d01c7d/METS.xml) Individual representations should state their specific rights in their representation METS file (Root METS.xml)
SP13	Info	metsHdr/agent/note You can add one metsHdr/agent/note in Root METS.xml
SP19	Info	metsHdr/agent/note You can add one metsHdr/agent/note in Root METS.xml

The **eArchiving Validation Service** allows validating individual information packages.

Currently there are two validators:

- Commons-ip Validator (Java-based)
- PyIP Validator (Python-based)

Both validators verify the conformance of package structure and the metadata against the E-ARK specifications for CSIP, SIP, and DIP.

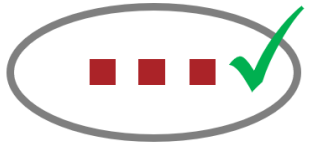
You can use the online instance of the eArchiving Validation Service available at:

- <https://eark.openpreservation.org>

Or download the software components to perform the validation locally:

- [keeps.github.io/commons-ip](https://keeps.github.io/commons-ip)
- <https://github.com/E-ARK-Software/py-e-ark-ip-validator>

# 2. Self-Assessment



v1.0 - 17.10.2023

## CONFORMANCE SEAL SELF ASSESSMENT REPORT

### 1. IDENTIFICATION

<b>NAME OF REPORT CREATOR:</b>	Please provide an answer.					
<b>EMAIL OF REPORT CREATOR:</b>	Please provide an answer.					
<b>TYPE OF APLICANT</b>	Digital/Electronic Archive	<input type="checkbox"/>	Archival Solution	<input type="checkbox"/>	Archival Service	<input type="checkbox"/>
<b>ORGANIZATION</b>	Please provide an answer.					
<b>COUNTRY</b>	Please provide an answer.					
<b>NAME OF CONTACT PERSON:</b>	Please provide an answer.					
<b>EMAIL OF CONTACT PERSON</b>	Please provide an answer.					
<b>DATE</b>	Select a date.					

# 3. Conformance application & review



## eArchiving Conformance Seal Application Form

Please provide your contact details

Provide your firstname, lastname and email address so that we can respond to you

### Contact details

Firstname \*

Lastname \*

Email address \*

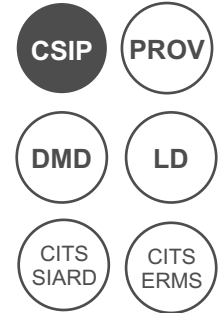
Repeat to confirm \*

NEXT STEP →

# 4. Seal



- After successful review the **eArchiving Conformance Seal** is awarded by the European Commission.
- Solution/Archive is listed on the EC's Website of Conformant Solutions/Archives
- Needs to be renewed after 4 years



# EC's eArchiving Conformance Seal Website

<https://digital-strategy.ec.europa.eu/en/activities/earchiving-conformance-seal>

## eArchiving - Conformance Seal

The eArchiving Conformance Seal is a sign of quality of digital archiving, long term preservation, and data management following standards and best practices.

The eArchiving Conformance Seal demonstrates that a digital repository or archival solution is conformant with the [E-ARK specifications](#). Below are the basic steps to acquire the eArchiving Conformance Seal.

There are several steps which need to be carried out by a designated representative from an organisation (digital repository maintainer) or company (solution provider).



### 1. Validation

Validation is the process of **testing a single Information Package (IP)** file for conformance. You can start by verifying if individual information packages of your digital repository or archival solution are valid by using the **Validation Service** to test if these are conformant with E-ARK specifications.



### 2. Self-assessment conformance

eArchiving conformance of a digital archive or archiving solution includes **meeting the requirements for ingest and processing of Information Packages**, in addition to the validation of a representative sample of information packages.



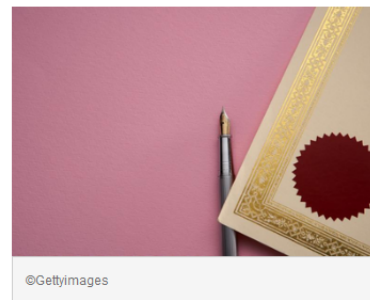
### 3. Review

A review with the applicant by the eArchiving team will be performed to verify conformance against the **E-ARK specifications and requirements for ingest and processing of Information Packages**. This is a condition for acquiring the eArchiving Conformance seal.



### 4. Seal

After successful review the **eArchiving Conformance Seal** is awarded by the European Commission.



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[Knowledge Centre >](#)

[Training >](#)

[Support desk >](#)

[Get involved >](#)

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# E-ARK Consortium's Conformance Seal Website

<https://seal.e-ark-foundation.eu>



eArchiving Conformance Seal

Requirements

Get the Seal

## eArchiving Conformance Seal



Museum of City History Leipzig - CC BY-NC-SA - Retrieved from Europeana

The European Commission's **eArchiving Initiative** aims to foster interoperable archiving and data management in Europe by defining standards, best practices, and building a community of users and stakeholders.

Together with the E-ARK Consortium representing the **E-ARK Foundation**, the European Commission provides core specifications, software, training and knowledge to help organisations and people to preserve information for the long term.

The **eArchiving Conformance Seal** is intended for digital or electronic archives, and associated solution and service providers, as a sign of quality of digital archiving; long term preservation; and data management; following standards and best practices.

Search

Search

### Frequently asked questions

[What is the purpose of the eArchiving Conformance Seal?](#)

[Who maintains the E-ARK specifications?](#)

[What do I need to do to get the eArchiving Conformance Seal?](#)

[Which organisation is behind the eArchiving Conformance Seal?](#)

[What is the process for acquiring the eArchiving Conformance Seal?](#)

# Keep in touch



<https://digital-strategy.ec.europa.eu/en/activities/earchiving>



[support@e-ark-foundation.eu](mailto:support@e-ark-foundation.eu)



[@EU\\_eArchiving](#)



[EU eArchiving Initiative](#)



# Thank you



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