



# SYDARKIVERA.

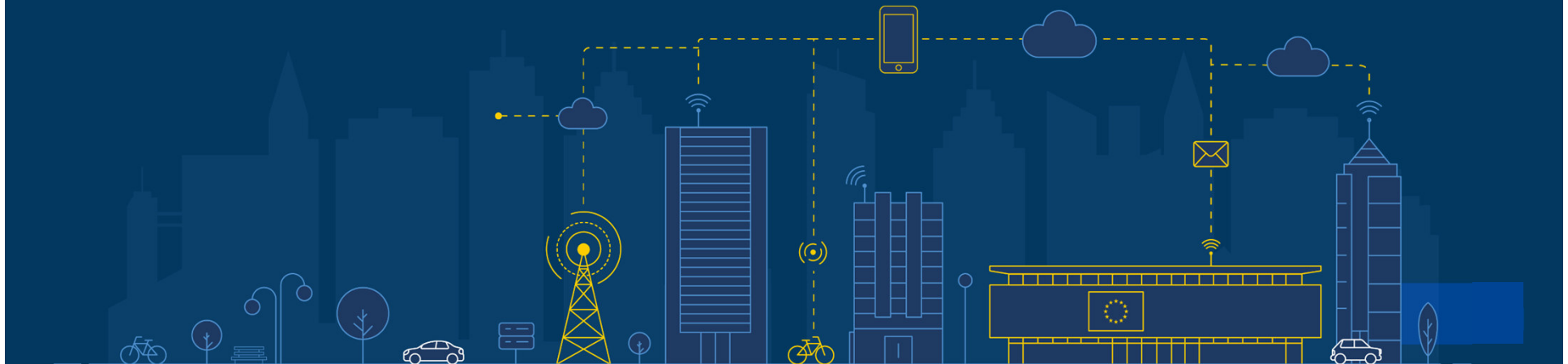
**The winding road to a CITS ERMS**

**Karin Bredenberg,  
Metadata Strategist**



# CEF eArchiving Building Block

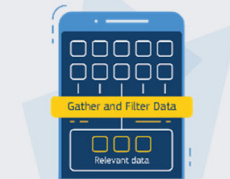
Karin Bredenberg  
eArchiving activity lead specifications





#### Big Data Test Infrastructure

Explore and experiment with big data for improved performance and decision making



#### Context Broker

Analyze, manage and share data, in real time, at the right time, throughout Europe



#### eArchiving

Facilitates the preservation, migration, reuse and trust of your data



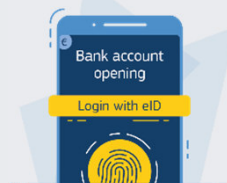
#### European Blockchain Services Infrastructure

Harness the power of a European-wide network of blockchain services, increasing trust through data security, privacy and transparency



#### eInvoicing

Promote the implementation of the European standard for electronic invoicing across borders



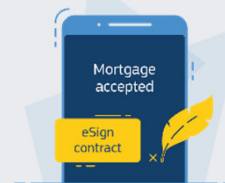
#### eID

Allow citizens to prove who they are across borders, making it easier to access online services in another EU Member State



#### eDelivery

Exchange online data and documents reliably and securely



#### eSignature

Create and verify electronic signatures between businesses and EU citizens



#### eTranslation

Offers machine translation to translate your documents and web content into any official EU language, Norwegian or Icelandic



### How to use a Building Block?

Build, buy or reuse the Building Blocks on your own.

Co-develop the solution or partner with other parties.

## Co-develop and partner

with other parties



### Build

The solution from scratch based on a European standard



### Buy

A compliant solution from the market



### Reuse

Sample software available on CEF website

## European Standards



## A Swedish solution



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## FGS Ärendehantering and the beginning

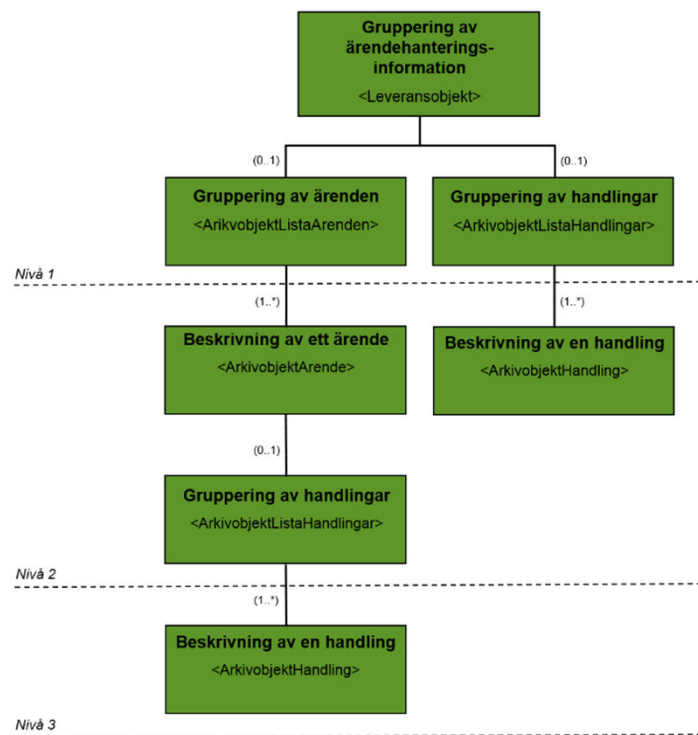
- 2011, start of eARD
  - Project lead by the Swedish National Archives
  - Project members from both agencies, municipalities and regions
- Result
  - Draft specifications for:
    - Information Package
    - ERMS
      - Based upon an self-created schema using most needed elements
    - Personnel systems
  - Start of the FGS unit at the Swedish National Archives

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## FGS Ärendehantering publication

- 2018 specification with an XML-schema published
  - The draft from eARD with minor changes

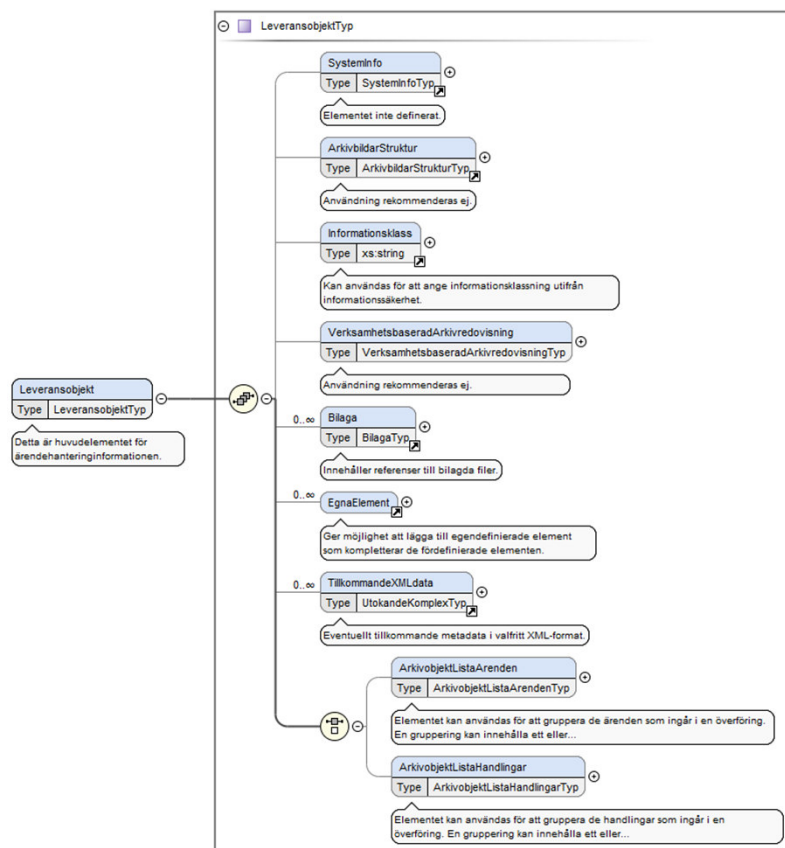
## FGS Ärendehantering, Information model



Informationsmodell för uppbyggnaden av FGS Ärendehantering.



## FGS Ärendehantering, XML-schema



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## FGS Ärendehantering use


- Versions have been implemented as export formats in some systems
- The format is not fully developed

**From E-ARK...**




# E-ARK (the first)

Starting in Moreq2010 and publication in 2016



The E-ARK SMURF Profile

Project Acronym: E-ARK  
Grant Agreement Number: 620998  
Project Title: European Archival Records and Knowledge Preservation



**DELIVERABLE**

Project Acronym: E-ARK  
Grant Agreement Number: 620998  
Project Title: European Archival Records and Knowledge Preservation

**DELIVERABLE DETAILS**

DELIVERABLE REFERENCE NO.	D3.3
DELIVERABLE TITLE	E-ARK SMURF (semantically marked up record format) Profile (part of D3.3)
REVISION	1.0

Name(s)	Organisation(s)
Tarvo Kärberg	National Archives of Estonia (NAE)
Angela Dappert	DLM Forum Foundation
Andrew Wilson	University of Brighton
Levente Szilágyi	National Archives of Hungary (NAH)
Jaka Skofljanc	Slovenian National Archives (SNA)
João Cardoso	Instituto Superior Técnico (IST)
Gregor Zavrnjak	Slovenian National Archives (SNA)

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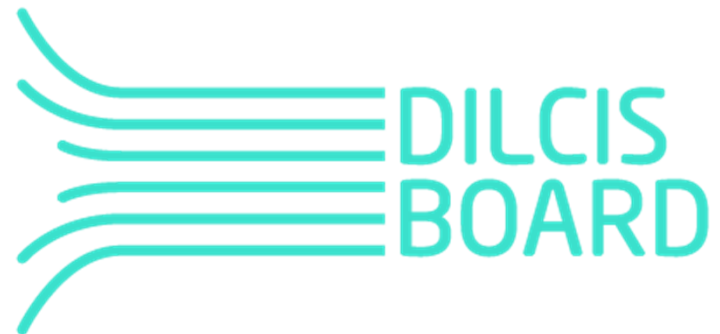


**...to the eArchiving BB**



## DILCIS Board

Founded in 2017



## eArchiving Building Block



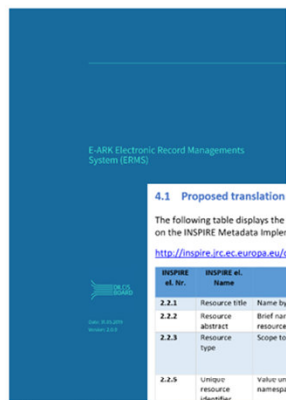
# eArchiving Building Block specifications





# Document and files for a specification

The textual document and files providing the XML structure and validation rules



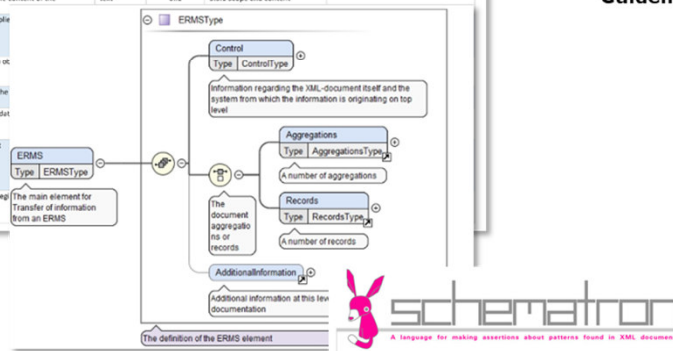
Specification

## 4.1 Proposed translation schema for the INSPIRE metadata descriptions for geospatial resources in ISAD(G)

The following table displays the identified counterparts of the required INSPIRE metadata elements used in the ISAD(G) structure. Initial elements are based on the INSPIRE Metadata Implementing Rules: Technical Guidelines, based on EN ISO 19115 version 1.3, and INSPIRE Metadata Implementation Rules at: [http://inspire.jrc.europa.eu/documents/Metadata/MD\\_IR\\_and\\_ISO\\_20131029.pdf](http://inspire.jrc.europa.eu/documents/Metadata/MD_IR_and_ISO_20131029.pdf)

INSPIRE el. Nr.	INSPIRE el. Name	Explanation	Metadata data type	Proposed Cardinality	ISOG code	Comments
2.2.1	Resource title	Name by which the cited resource is known	text	1..1	3.1.2 Title	
2.2.2	Resource abstract	Brief narrative summary of the content of the resource(s)	text	0..1	3.1.1 Scope and content	
2.2.3	Resource type	Scope to which metadata apply				
2.2.5	Unique resource identifier	Value uniquely identifying an object namespace				
2.2.6	Coupled resource	Provides information about the service operates on				
2.2.7	Resource language	Language(s) used within the dataset				
2.3.1	Topic category (INSPIRE specific)	Main theme(s) of the dataset				
2.3.2	Spatial data service type	A service type name from a register				

Requirements



XML-Schema/Schemas

Expression of requirements not possible to make in the XML-schema

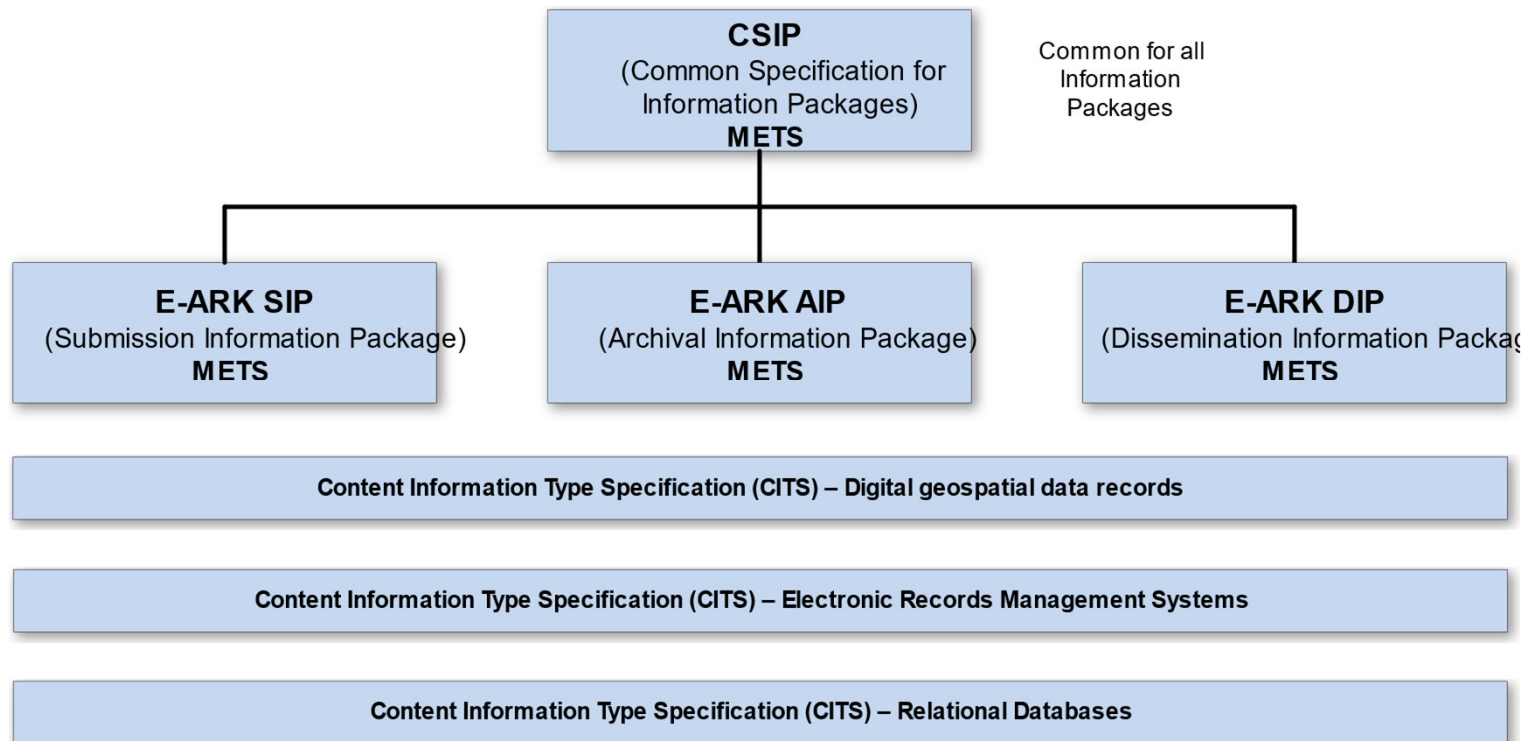


Guideline

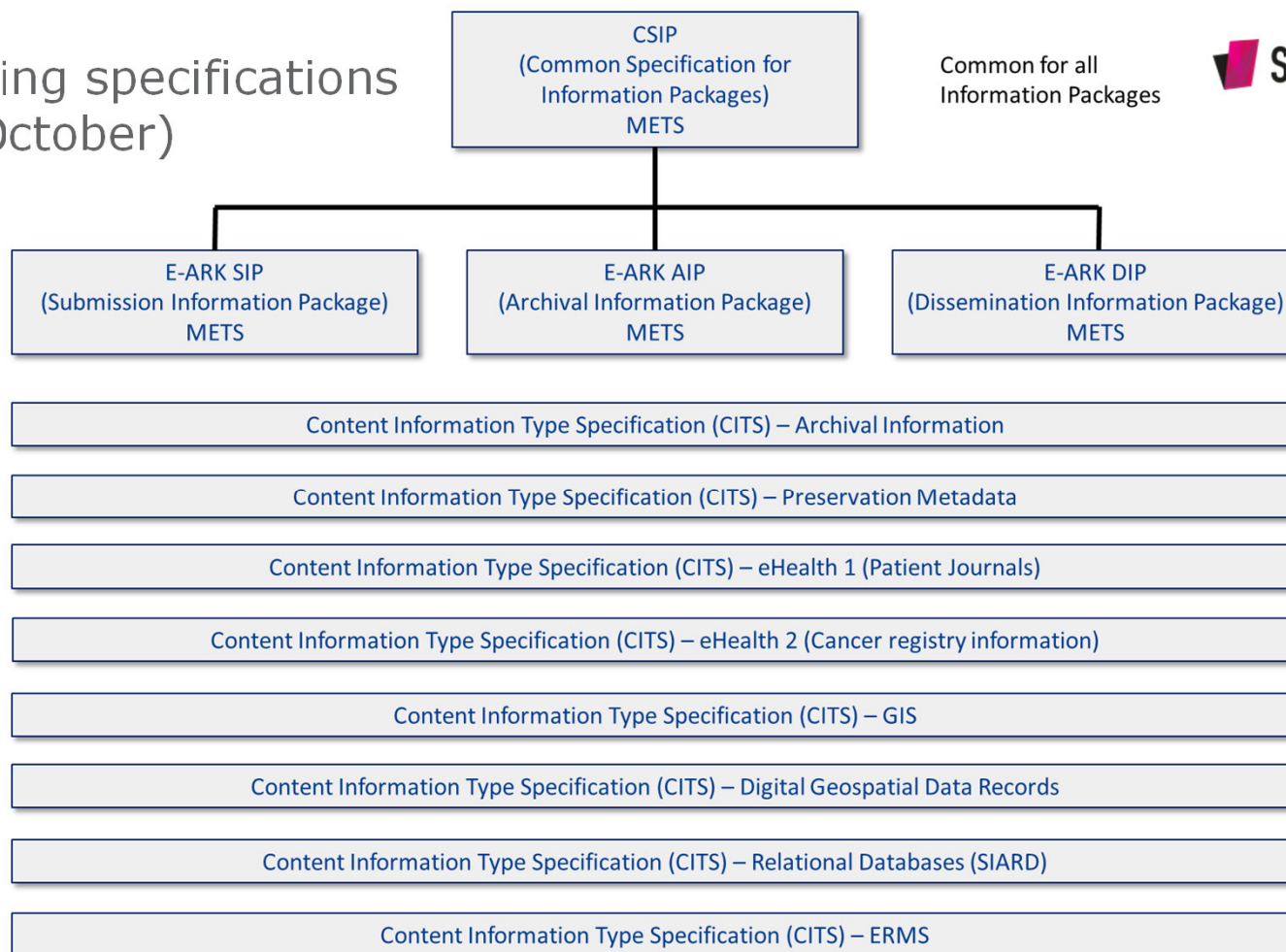


Example

## eArchiving specifications (current)



## eArchiving specifications (after October)



Common for all  
Information Packages



# CITS ERMS revamped



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## CITS ERMS and CSIP

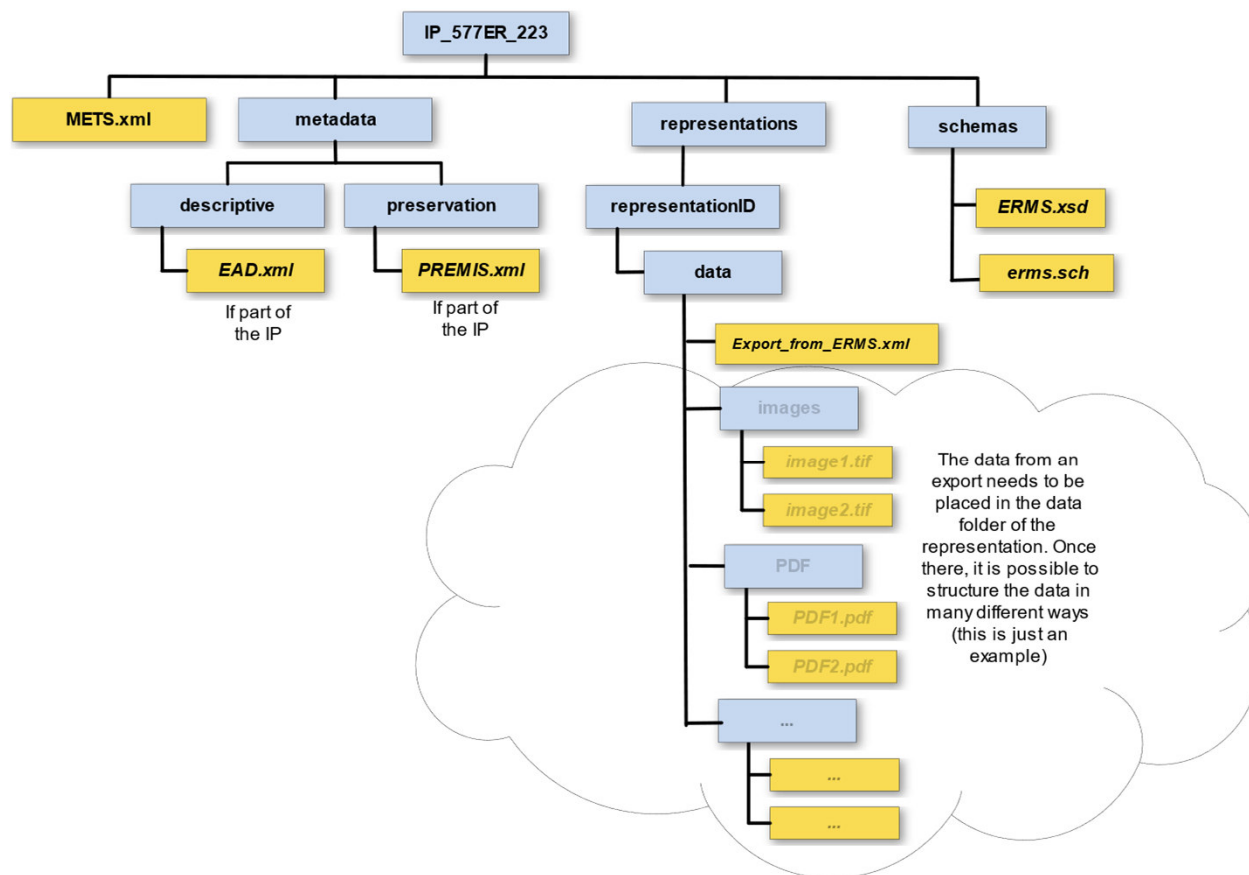
Table 1: Specific fields to use in CSIP

Element name	METS path	Value
General content type	mets/@TYPE	Dataset
Specific content type	mets/@csip:CONTENTINFORMATIONTYPE	ERMS
Specific content type	fileGrp/@csip:CONTENTINFORMATIONTYPE When the FileGrp describes a Representation	ERMS

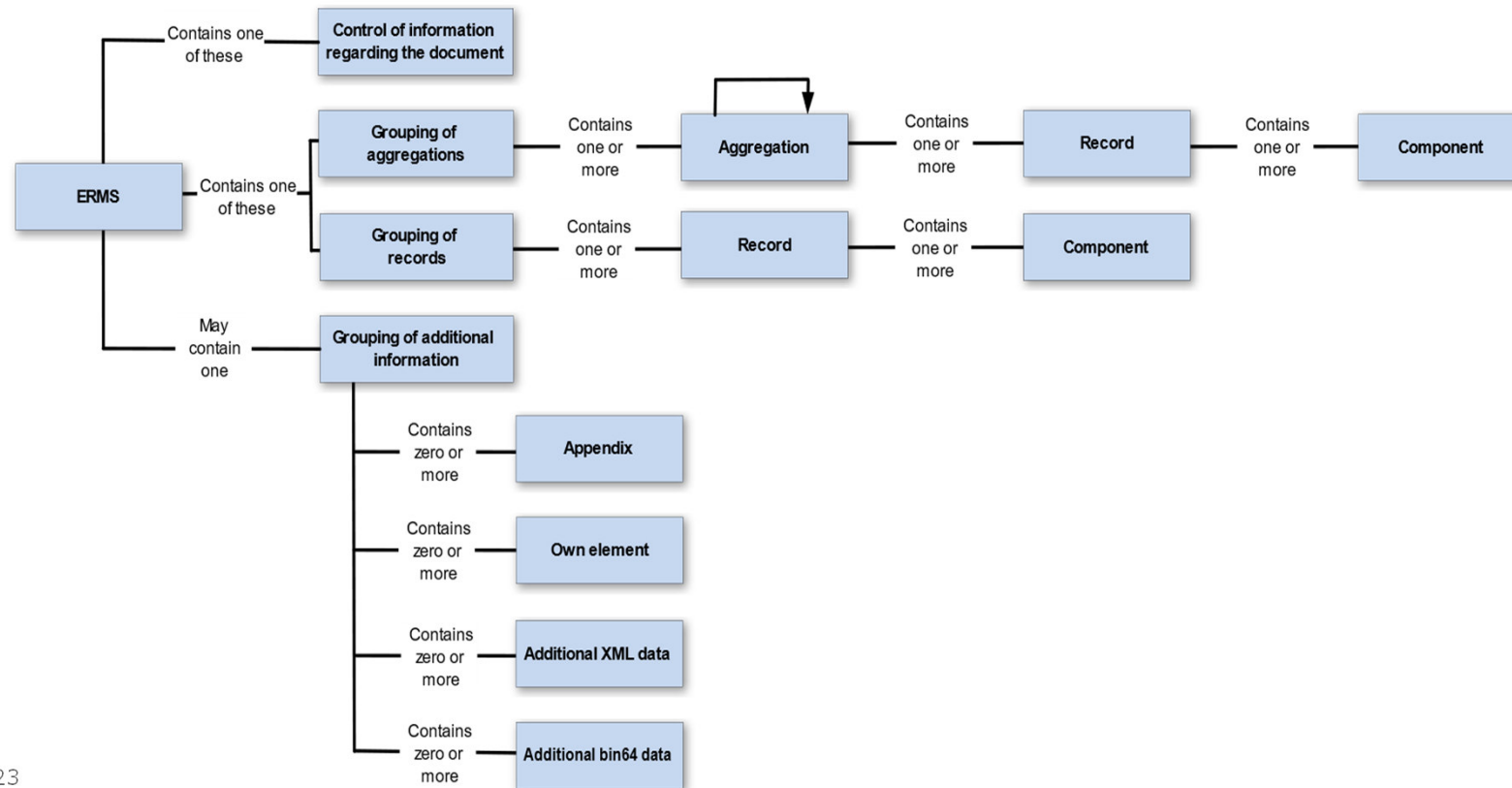
### 3.3.2 Placement of data in a CSIP Information Package

The ERMS document is placed as a representation file following the instructions in CSIP.

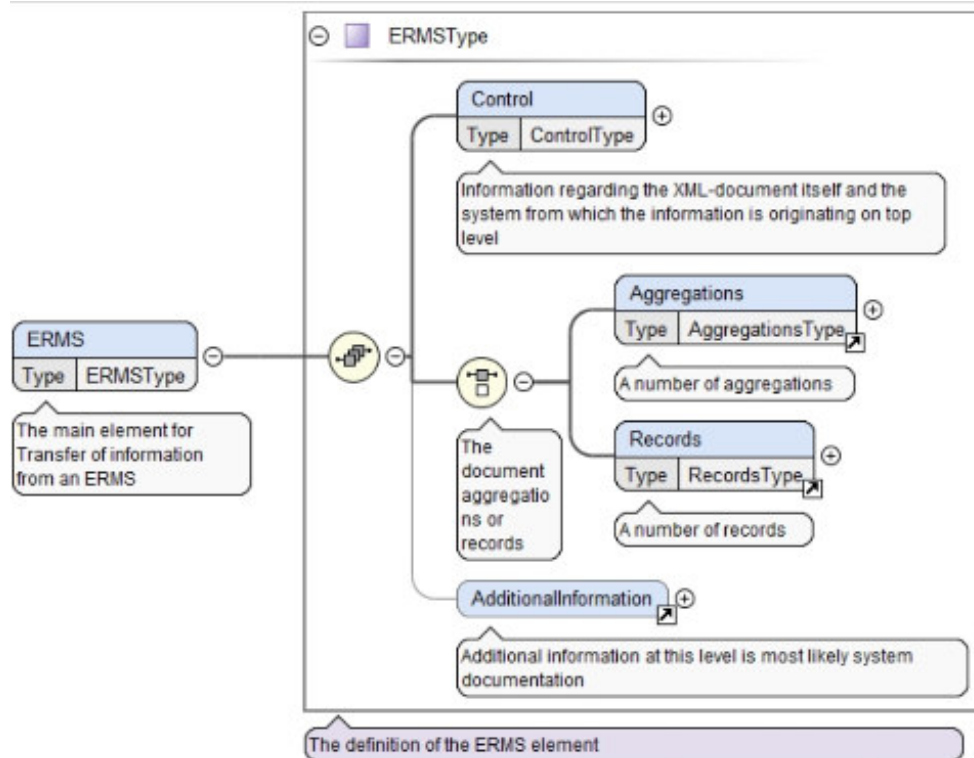
## CITS ERMS placement



## CITS ERMS Main elements



## CITS ERMS XML-schema + Schematron





# ERMS Survey



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## CITS ERMS survey

[https://ec.europa.eu/eusurvey/runner/ERMS\\_eARCHIVING\\_2021](https://ec.europa.eu/eusurvey/runner/ERMS_eARCHIVING_2021)

- A survey ending on the 31<sup>st</sup> of May to find out more!

This study aims at gaining a better understanding of the following questions:

- What are the **most prevalent Electronic Records Management Systems (ERMS)** across different countries?
- What are the most **common data access APIs and** export functions provided by current ERMS?
- What are the **standards or regulations** that guide the implementation metadata within ERMS across different jurisdictions?
- What are the standards or regulations that guide the implementation of **classification systems** within ERMS across different jurisdictions?
- What are the perceived **benefits of transferring records from an ERMS to a long-term eArchiving system?**





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## Links

- <https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eArchiving>
- <https://dilcis.eu/>
- <https://github.com/DILCISBoard>
- <https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Sample+Software+Portfolio>  
<https://github.com/E-ARK-Software>
- <https://joinup.ec.europa.eu/collection/interoperability-test-bed-repository/solution/interoperability-test-bed/news/itb-and-cef-earchiving>
- <https://riksarkivet.se/e-arkiv>
- <https://riksarkivet.se/intro-fgs>  
<https://www.eark-project.com/index.html>
- <https://www.moreq.info/>

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Questions?





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# Tack!

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**Karin Bredenberg**



