The winding road to a CITS ERMS

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**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

**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

**eArchiving**
Facilitates the preservation, migration, reuse and trust of your data
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
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 a self-created schema using most needed elements
    - Personnel systems
  - Start of the FGS unit at the Swedish National Archives
FGS Ärendehanterings publication

- 2018 specification with an XML-schema published
  - The draft from eARD with minor changes
FGS Ärendehantering, Information model

Informationsmodell för uppfygnaden av FGS Ärendehantering.
FGS Ärendehantering, XML-schema
• 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
...to the eArchiving BB
eArchiving Building Block

Preserve and reuse data
eArchiving Building Block specifications
Document and files for a specification

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

**Guideline**

**Example**

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**Expression of requirements not possible to make in the XML-schema**
eArchiving specifications (current)

CSIP (Common Specification for Information Packages) METS

E-ARK SIP (Submission Information Package) METS
E-ARK AIP (Archival Information Package) METS
E-ARK DIP (Dissemination Information Package) METS

Content Information Type Specification (CITS) – Digital geospatial data records
Content Information Type Specification (CITS) – Electronic Records Management Systems
Content Information Type Specification (CITS) – Relational Databases

https://github.com/DILCISBoard
eArchiving specifications (after October)

- CSIP
  (Common Specification for Information Packages)
  METS

- E-ARK SIP
  (Submission Information Package)
  METS

- E-ARK AIP
  (Archival Information Package)
  METS

- E-ARK DIP
  (Dissemination Information Package)
  METS

- Content Information Type Specification (CITS) – Archival Information
- Content Information Type Specification (CITS) – Preservation Metadata
- Content Information Type Specification (CITS) – eHealth 1 (Patient Journals)
- Content Information Type Specification (CITS) – eHealth 2 (Cancer registry information)
- Content Information Type Specification (CITS) – GIS
- Content Information Type Specification (CITS) – Digital Geospatial Data Records
- Content Information Type Specification (CITS) – Relational Databases (SIARD)
- Content Information Type Specification (CITS) – ERMS
CITS ERMS revamped
CITS ERMS and CSIP

Table 1: Specific fields to use in CSIP

<table>
<thead>
<tr>
<th>Element name</th>
<th>METS path</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>General content type</td>
<td>mets/@TYPE</td>
<td>Dataset</td>
</tr>
<tr>
<td>Specific content type</td>
<td>mets/@csip:CONTENTINFORMATIONTYPE</td>
<td>ERMS</td>
</tr>
<tr>
<td>Specific content type</td>
<td>filepathGrp/@csip:CONTENTINFORMATIONTYPE When the FileGrp describes a Representation</td>
<td>ERMS</td>
</tr>
</tbody>
</table>

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

The diagram illustrates the structure of the ERMS placement for an item identified as IP_577ER_223. It includes:

- **MET宜.xml**: This file contains metadata.
  - **EAD.xml**: If part of the IP.
  - **PREMIS.xml**: If part of the IP.
- **representations**
  - **representationID**
  - **data**
- **schemas**
  - **ERMS.xsd**
  - **erms.sch**
- **Export_from_ERMS.xml**
  - **images**
    - image1.tif
    - image2.tif
  - **PDF**
    - PDF1.pdf
    - PDF2.pdf
  - ...

The data from an export needs to be placed in the data folder of the representation. Once there, it is possible to structure the data in many different ways (this is just an example).
CITS ERMS Main elements
CITS ERMS XML-schema + Schematron
ERMS Survey
CITS ERMS survey

https://ec.europa.eu/eusurvey/runner/ERMS_eARCHIVING_2021

• A survey ending on the 31\textsuperscript{st} of May to find out more!

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

- What are the \textit{most prevalent} Electronic Records Management Systems (ERMS) across different countries?
- What are the most \textit{common} data access APIs and export functions provided by current ERMS?
- What are the \textit{standards or regulations} that guide the implementation metadata within ERMS across different jurisdictions?
- What are the standards or regulations that guide the implementation of \textit{classification systems} within ERMS across different jurisdictions?
- What are the perceived \textit{benefits of transferring records from an ERMS to a long-term eArchiving system}?
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://riksarkivet.se/e-arkiv
- https://riksarkivet.se/intro-fgs
  https://www.eark-project.com/index.html
- https://www.moreq.info/
Questions?
Tack!

Karin Bredenberg

SYDARKIVERA.