

## **PREMIS at the Swedish National Archives**

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### **Two different approaches**

- In our own archival database (in use)
- For our suppliers (in progress)

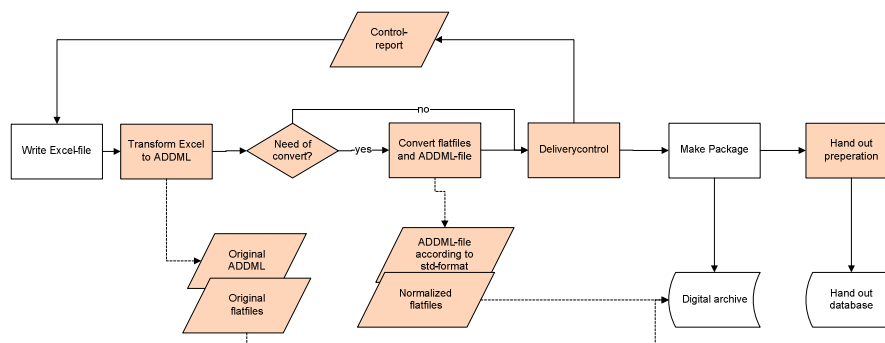


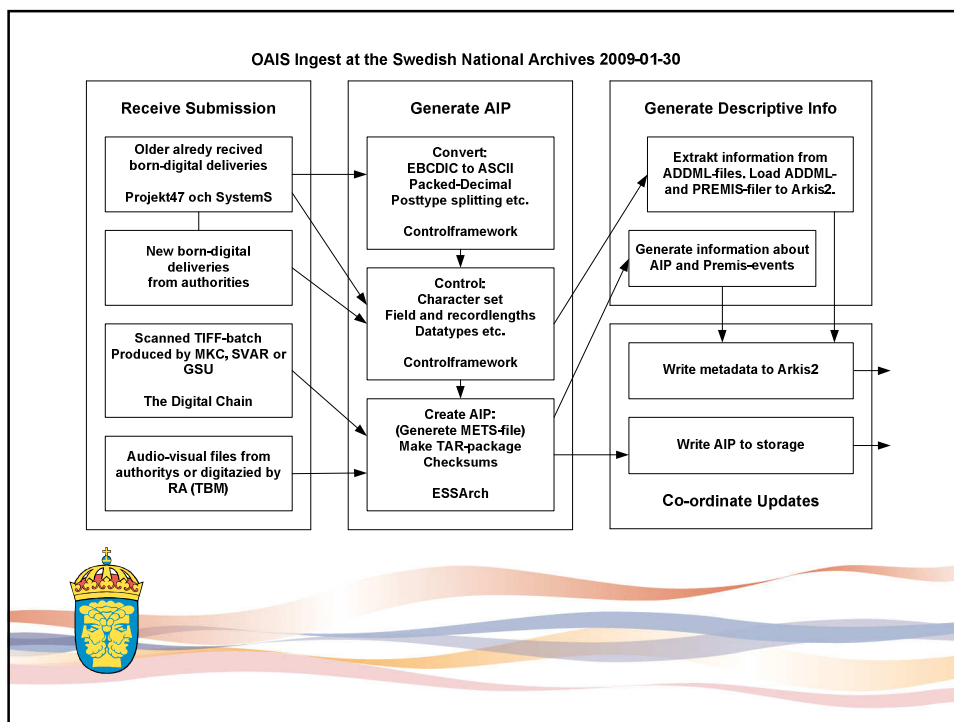
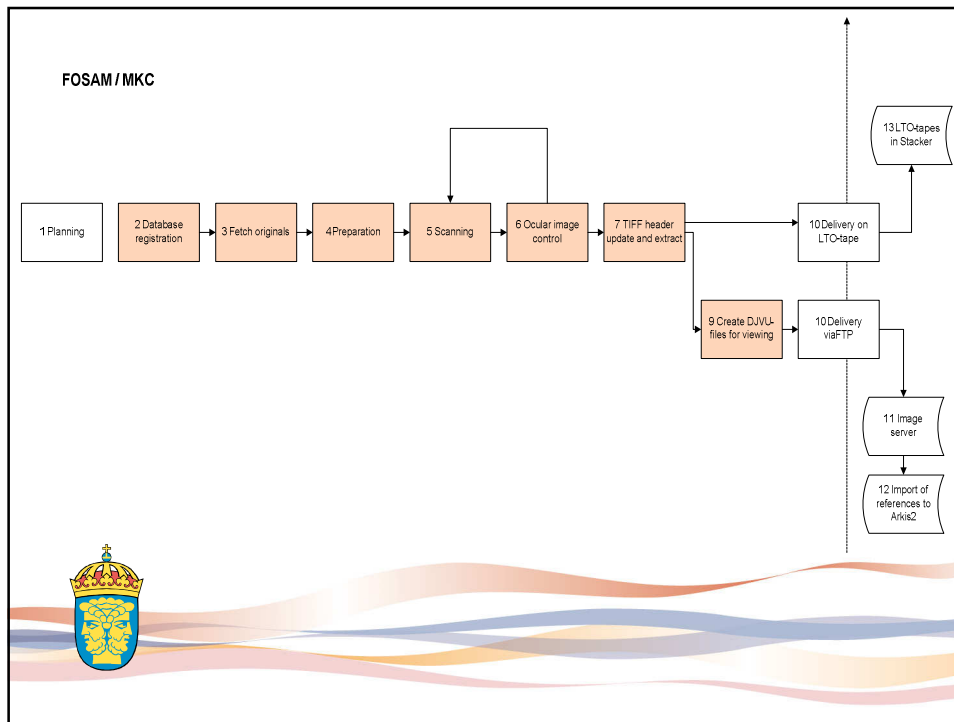
## In our database

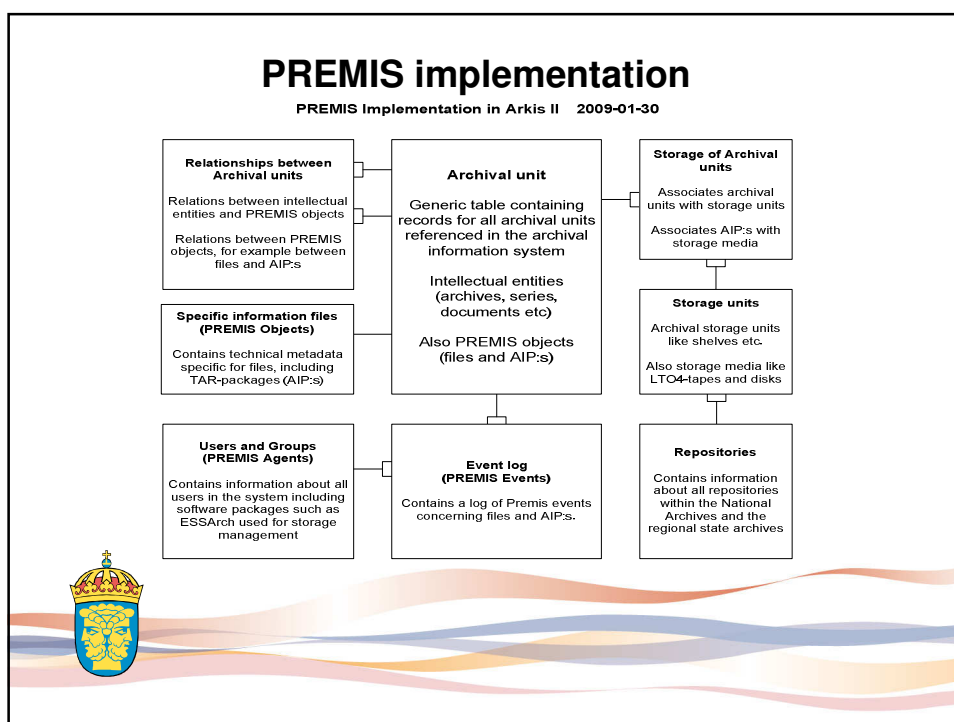
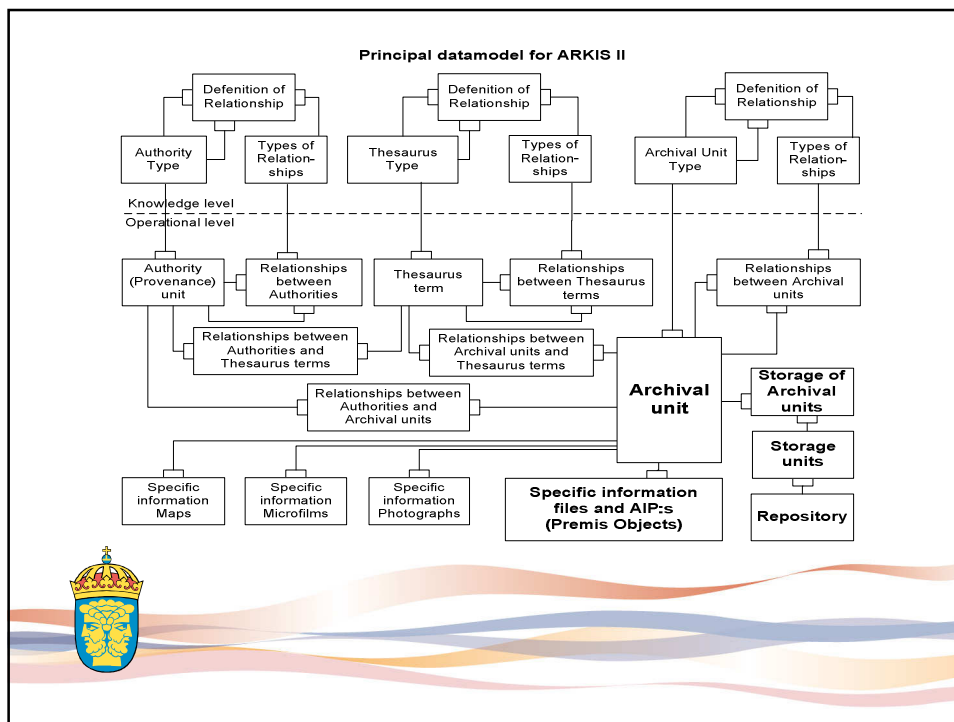
- Incorporated in the archival database ARKIS2
  - A Swedish archival management system
  - Own development
  - All metadata about archives regardless of storage media. (paper as well as digital)
- Connected with the archival object of type born digital
- Used for image files from our scanning projects
- Used as one output from our Controlframework (under development)

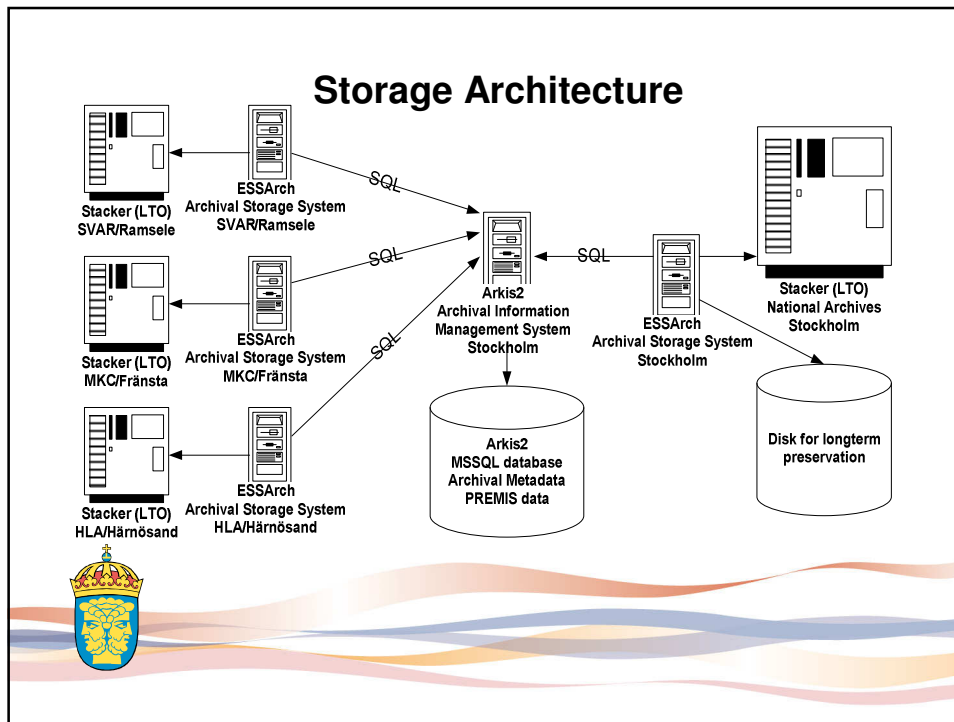


## Controlframework for born-digital information










## ESSArch

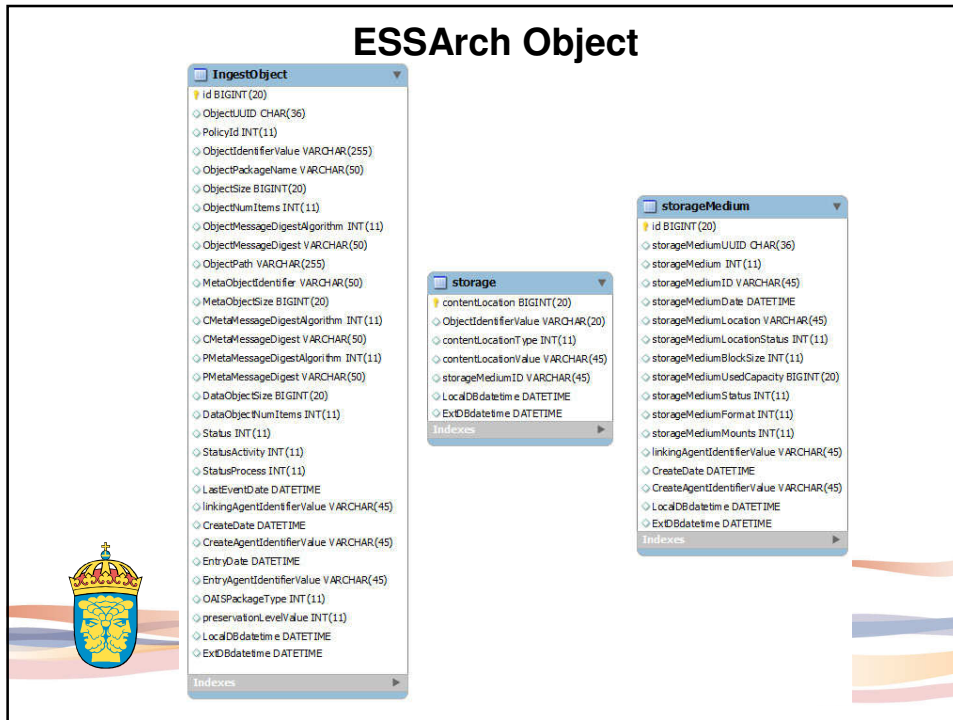
- **Archival Storage system developed by ESSolutions ([www.essolutions.se](http://www.essolutions.se)) for the National Archives of Sweden.**
- ESSArch is a back-end system for archival storage according to the OAIS-model. No public interface. Intended for integration with an archival information system (Arkis) or a library system.
- Package, storing and reading AIP:s for longtime preservation. (TAR-format).
- Generates AIP metadata according to METS. The METS-file can contain embedded metadata of PREMIS, ADDML, MIX and XHTML. One AIP consists of one TAR-file with a Content-METS and is followed by a Package-METS.
- Stores AIP:s in one or more bitwise-identical copies on optional storages media. Today LTO-tape and disk.
- Automatically rule based media migration. At NA in current version no automatic format migration.
- Generates, controls and stores checksums. Checksums on both file and package level.
- Logging of all AIP-events according to PREMIS. Also when storages media is handled.
- Stores preservation metadata in a local MySQL-database modeled according to PREMIS 2.0. The local database contains information about AIP:s, storage media (tape and disk) and event logs.
- Updates Arkis through SQL. Information about AIP:s, storage media and events is continuously written to Arkis.
- Physical handling of media (LTO-tapes, harddrives etc. ) is handled through a PC-program (RABAR). This program gets updated by a bar-code scanner. The application communicates with ESSArch through a web-interface. Delivery, reception, placement and removal of storage media is administrated through the bar-code scanner.

Rules for storing on storage media is handled through profiles. A profile can regulate filling of a tape, bufferrate of a tape and so on.

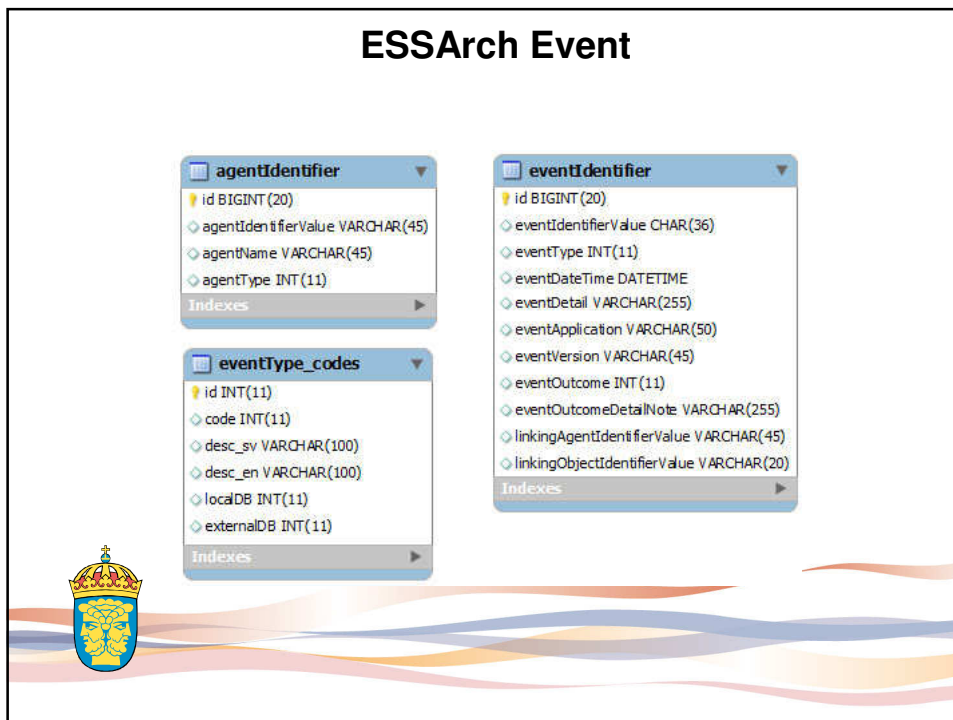
Based on Open Source, Linux, Apache, MySQL and Python.

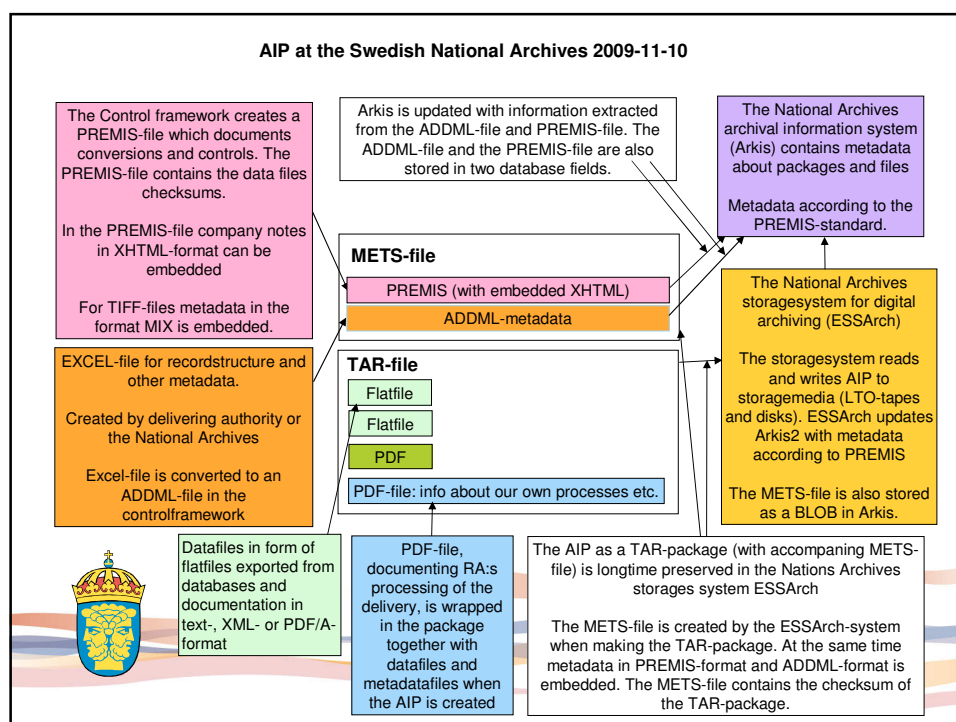
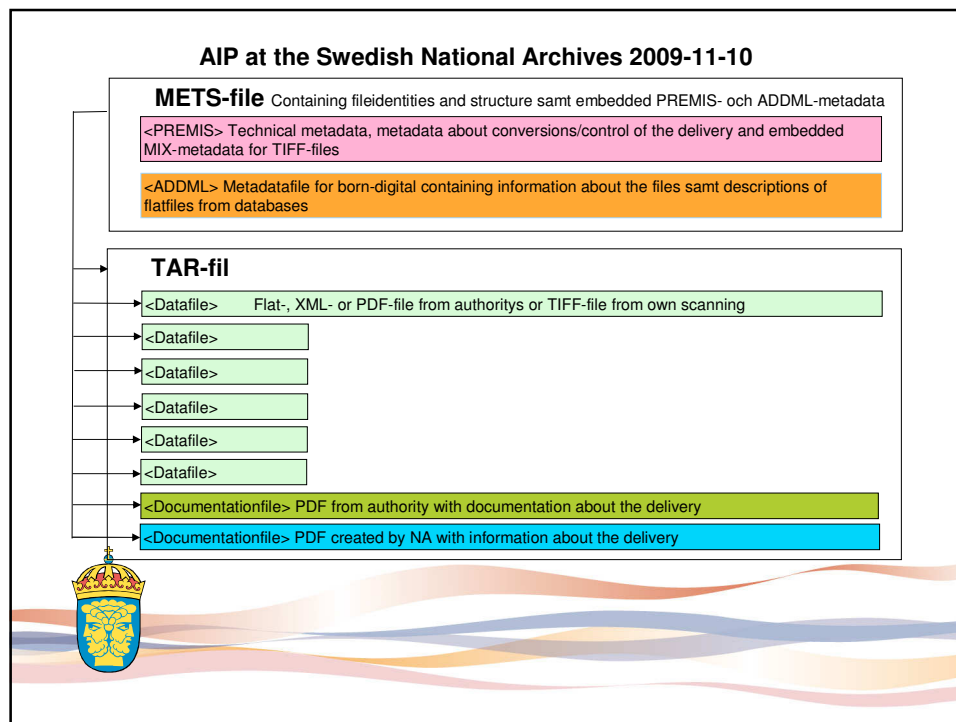


## ESSArch Object



## ESSArch Event





## For our suppliers

- A way of letting the suppliers describe the object and the events that have occurred before we receive it.
- XML included (embedded or linked) in the AIP.
- A predefined set of elements that we require.
- Eventually a full PREMIS-file



## Suppliers cont.

- Level of **accuracy** depends on decisions of destruction of the data history (e.g. is data about creation, upgrading and so on going to be saved?)
- METS to be used as package information.  
PREMIS inside METS or own file depends on deliverer

