Applying eArchiving Initiative specifications from a solution provider's perspective

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Digital Society



National Security and Public Safety

- National infrastructure
 protection
- Border and Area security
- Mission Critical Networks
- Emergency Response

Healthcare

- Electronic health record
- Patient Portal
- E-prescription, E-referral, Ebooking
- Clinical Decision support
- Telemedicine

– – – · Digital Transformation – ·

Public Administration

- Case management solutions
- Archiving solutions
- Learning solutions

Sustainability

- Water quality management
- Nature preservation solutions
- Industry environment
- Urban development
- Smart Energy

Broadband

Land Administration

- Land registry
- One stop shop
- Building registry
- Infrastructure registry

Transport

- National access point
- Automatic Traffic management
- Passenger information
 system
- Railway solutions
- Broadband Infrastructure DevelopmentAggregation Networks

DILCIS specification - Ensuring longterm preservation and accessibility of digital records



Common 3 tier application architecture



Archiving



Two types of archive event:

- on single document (data entity) level
- collection of documents (case, package) level

Meaning:

- Finished any changes are forbidden.
 - signed/freezed/closed documents (invoice, payment, delivery acceptance, signed contract ...)
 - case is closed (public service case, court case, patient case, project, product ...)
- Protect it against loss or accidental deletion
 - important public documents classified for the long term preservation
 - old data or documents not relevant for current operation/business
 - personal documents, eMails, photos, other memories
 - uncompressed high quality version of files



Motivation for DILCIS kind of archiving

Without application integration:

- Application is obsolet and there is no new application to migrate
- Data are no longer needed on a daily basis (e.g. case closed)

Integrated with application:

AIP as data source of ERMS (*e.g. like RODA*)
archival of just files (not structured data)

Phasing out or retiring a Software product, Application or System "Export format" "Internal application" ••• API User interface COMMON ARCHITECTURE IP_577ER_223 Presentation / Communication layer METS.xml metadata schema documentation representations Land registry ARCHIVE(...) eHealth Business logic laver ERMS descriptive preservation representationID representationID GIS EAD.xml PREMIS.xml data data RCHIVE(....) File1.doc File1.pdf Data layer File2.doc SIARD Structured data (archival semantic) Unstructured data (files) Structured data (domain specific semantic) Unstructured data Structured data (semantic) (files)



Migration format

Application X



Application Y



Archiving files only





AIP in linked data communication network



Conclusion

Applying eArchiving Initiative specifications in ICT solutions:

- provides a robust and standardized approach to long-term preservation and accessibility of digital records
- Ensures data integrity

eArchiving Initiative specifications could propose guidelines for:

- common application architectures
- more advanced exchange of information contained in the AIP
- relationship with other EU







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