

Introduction

- Demonstrates partnerships between faculty, digital librarian, cataloger, and external digital preservation partners involved in open access (OA) institutional repository (IR) digital collection development and digital preservation of grey literature at Florida State University
- Proposes mapping current digital collections and digital preservation workflows to open archival information system (OAIS) reference model as part of a self assessment and gap analysis to improve current workflows and move towards the adoption of open standards and best practices
- Explores open access digital collections building and digital preservation policy development by mapping to OAIS reference model
- References The DCC Curation Lifecycle Model and digital curation profile as supplemental resources in the development of an institution's digital preservation management policy strategy for future inclusion into current digital collection development policy

Research questions

1. Are faculty willing to contribute grey literature to an OA IR?
2. Are faculty interested in preserving some of their grey literature for the development of a preservation policy?
3. Is senior library management willing to support, allocate the resources, and promote a standards-aware culture?

Scope and design

- Three small faculty collections used as a pilot for digital collection building and digital preservation.
- 13 rare biological science discipline monographs (digitized)
- 14 images of biological silica – Diatomscapes (born digital)
- 21 oceanography discipline technical reports (digitized)
- 1 faculty library exhibition
- Several conference poster presentation to promote faculty research
- Several formal & informal interviews with faculty
- Regular email correspondences
- Plot project preservation of Diatomscapes (FDA/ & MetaArchive)
- Discussions with senior library management
- Recommendation for FSU Libraries to join Florida Digital Archive

Findings

- Provides empirical insights and support that faculty are interested in contributed content in IR and willing to grant copyright permission to publish and preserve their grey literature content
- OAIS, OA IR, digital preservation, & digital concepts education
- Senior library management recognizes the need for OA IR to be standards-based/cognizant & trusted
- Digital curation of scholarly output & data set is needed
- "Data curation + digital preservation = digital curation" - Nance

Research limitations and implications

- Sample size not significant in breadth and depth
- Lack general application
- Expand scope, content, and research disciplines
- OAIS reference model can be used as a framework for digital preservation policy development

Ingest

The Florida Digital Archive

DigiTool to Preservation Archive Workflow

Flag causes export of Metadata & files

Workflow:
DigiTool-to-Florida Digital Archive (FDA) workflow for flagging access objects for archive storage.

Example:
Oceanography technical report with PID 221474 flagged for archive with Usage Type = View (access) Partition A = dot02 (collection code); Partition B = FSU (institution code); Partition C = FSU, DOT (institution code and collection code).

Ingest report:
Dark Archive in the Sunshine State (DAITSS) ingest report E20091013_AAAAKI.ingest.xml with AIP information generated and emailed to producer (institution - FSU).

Access

Example: 1
Digitized rare biological science monographs are accessible online via libraries online public access catalog (OPAC), OA IR, OCLC WorldCat, and are being preserved in Florida Digital Archive (FDA).

Example: 2
Born digital images of select biological silica are accessible online via OPAC, OA IR, OCLC WorldCat, and are being preserved in FDA & MetaArchive.

Example: 3
Digitized technical reports are all accessible online via OPAC, OA IR, OCLC WorldCat, and are being preserved in FDA.

DRAFT CCSDS RECOMMENDED STANDARD FOR AN OAIS REFERENCE MODEL

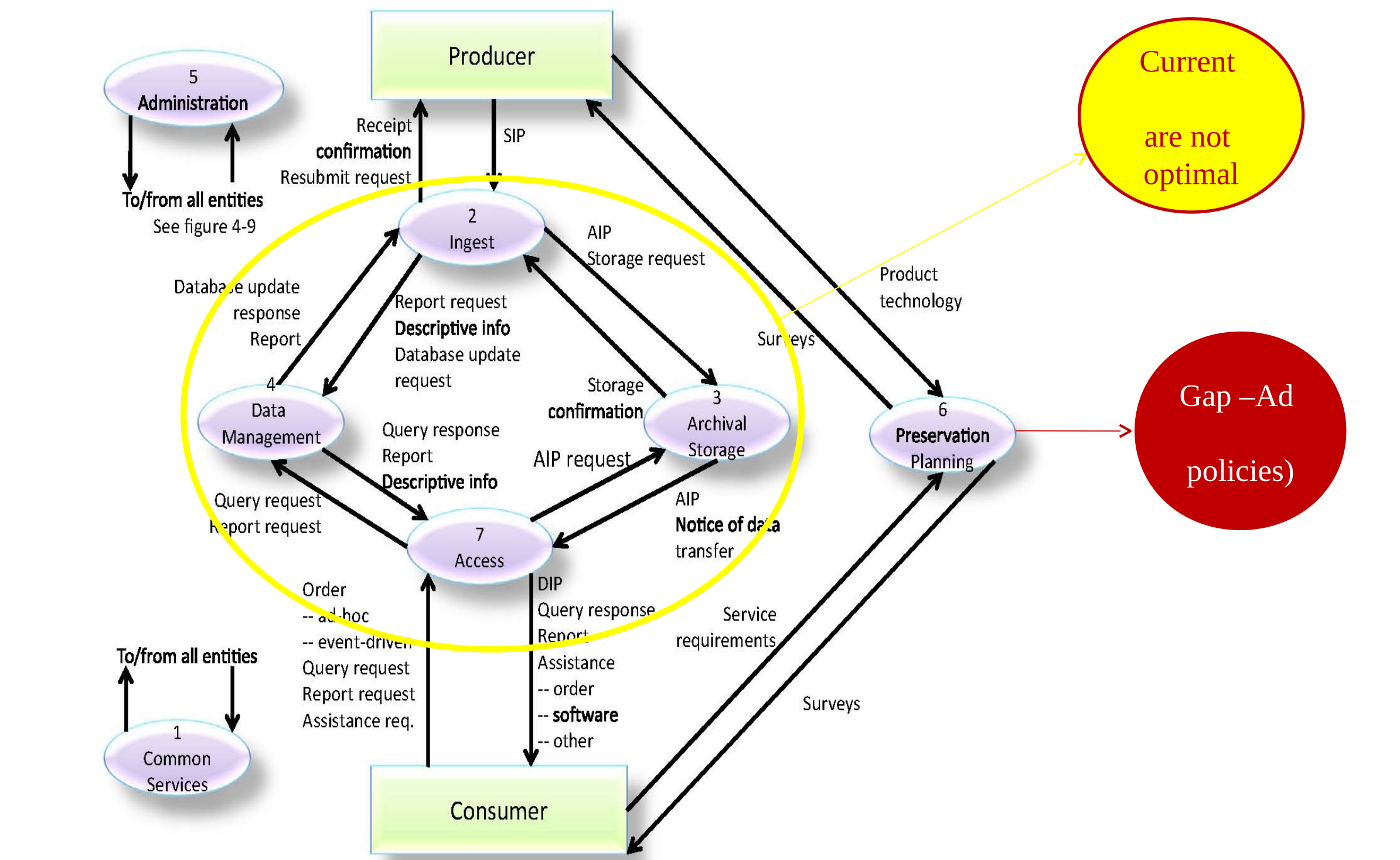


Figure 4-8: OAIS Data Flow Diagram

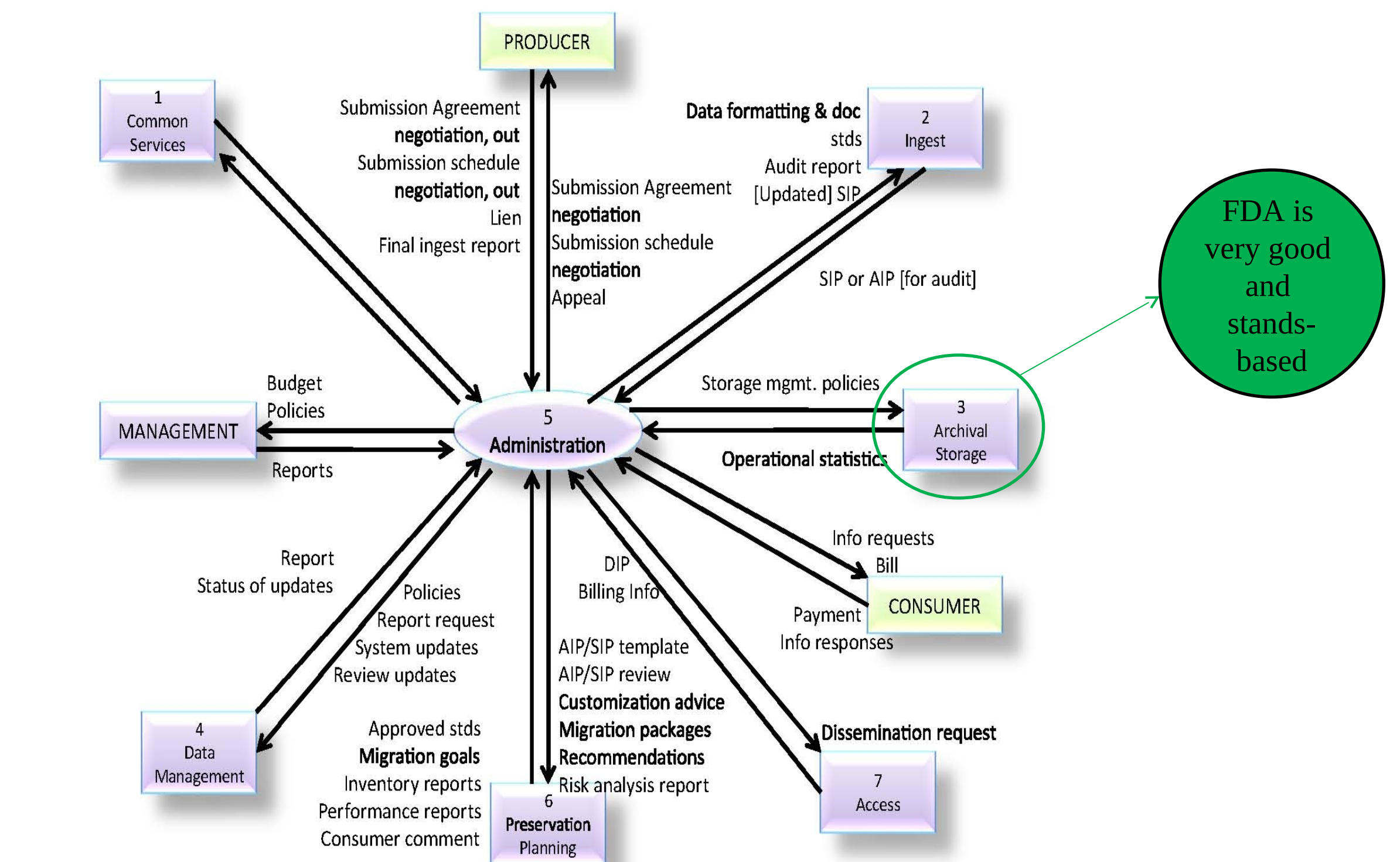


Figure 4-9: Administration Context Diagram

CCSDS 650.0-P-1.1 4-18 August 2009

Reference model:
Draft CCSDS Recommended Standard for an OAIS Reference Model OAIS Data Flow Diagram & Administrative Context Diagram, from pg. 62 of 131 of CCSDS 650.0-P-1.1, August 2009 to be used for mapping current digital collection building and preservation activities in the development of a preservation policy.

Conclusions

- Faculty, both tenure and non-tenure, including the Provost support OA IR development and preservation of OA IR content, including grey literature
- Senior library management supports OAIS OA IR research and digital preservation policy development with recent ICPSR Digital Preservation Management Workshop and future METS Workshop training
- Collection Development Digital Initiatives Policy spearheaded by senior library management lacks a preservation policy
- FSU Libraries need to develop a digital preservation management policy starting with OpenDOAR compliance while working towards Reference Model for an Open Archival Information System (OAIS) CCSDS 650.0-P-1.1 (Pink Book) Issue 1.1 August 2009 and Audit and Certification of Trustworthy Digital Repositories CCSDS 652.0-R-1 (Red Book) Issue 1 October 2009.