

MAGPIE



Metadata Assignment GUI Providing Ingest and Export

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Magpie

- **Magpies** are birds of the Corvidae (crow) family, including the black and white Eurasian magpie, which **is considered one of the most intelligent animals in the world**, and the only non-mammal species able to recognize itself in a mirror test.^[1] In addition to other members of the genus Pica, corvids considered as magpies are in the genera Cissa, Cyanopica and Urocissa.
- MAGPIE is an acronym for “Metadata Assignment GUI Providing Ingest and Export”

Magpie. (n.d.). In *Wikipedia*. Retrieved May 12, 2016, from <http://en.wikipedia.org/wiki/Magpie>

Objectives

- Intuitive and efficient interface for managing metadata annotation of digital content
- Consume external resources to provide definitive records and suggestions
- Providing single and batch export into Institutional Repository (IR), i.e. DSpace
- Generation and export of archival cataloging spreadsheets for preservation

Use Cases

- Legacy dissertations
- Image collections
- Newspapers and articles
- Etc.

Implementation

- Using A&M developed Weaver framework
- Distributed architecture
 - Scanning workstation
 - ABBYY OCR
 - Authorization Service **Weaver*
 - Webservice **Weaver*
 - User Interface **Weaver*
 - Institutional Repository
 - Archivematica

* Weaver Webservice Core

* Weaver UI Core

Project Configuration

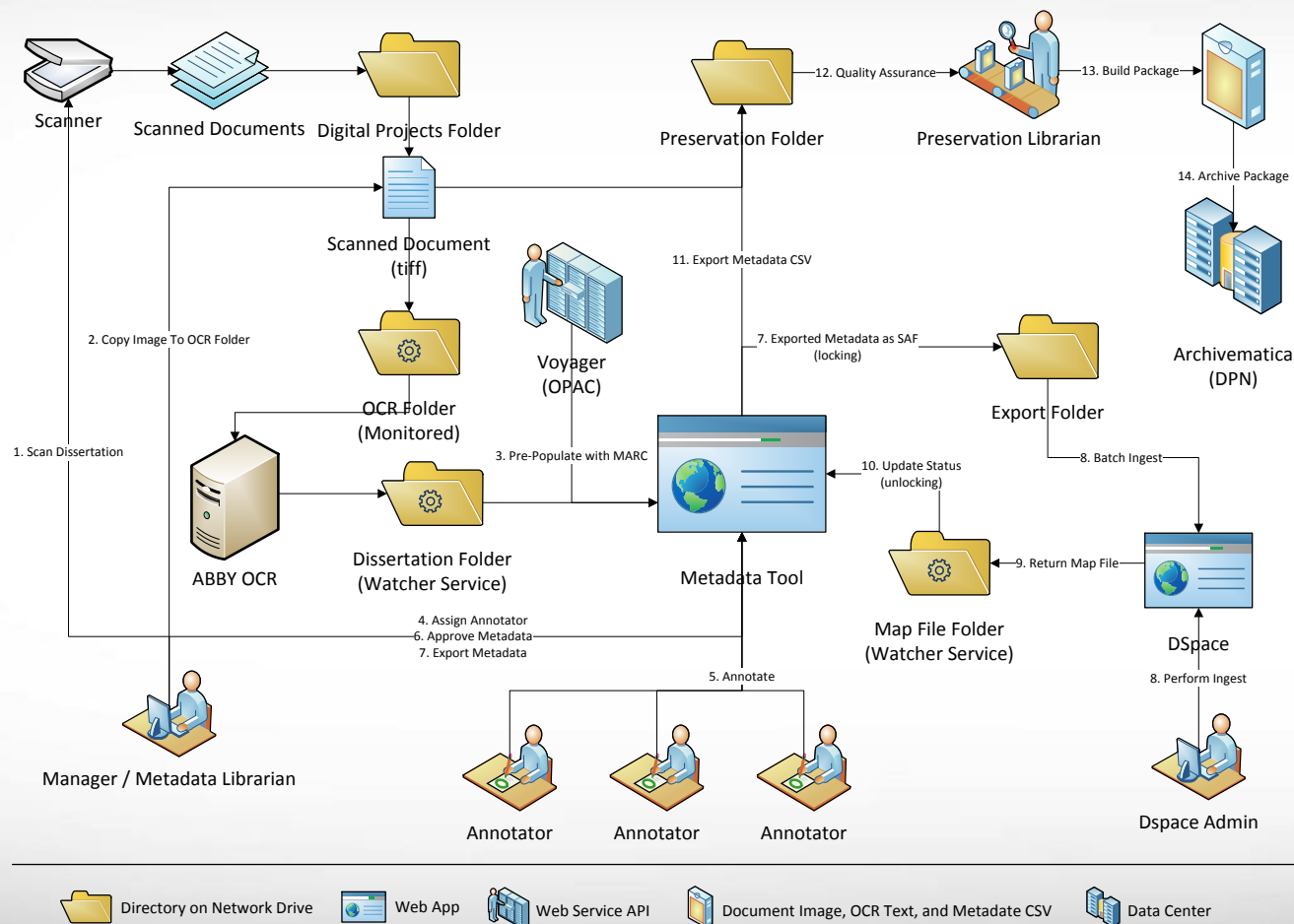
- External JSON for metadata input fields
 - label, gloss, repeatable, and input type
- Network Directory Watcher (Polling)
 - New project directories
 - Project folder for scanned documents
 - Map folder for DSpace ingest map files
- External Services
 - Voyager for MARC records

Workflow

- Provide Digital Content to Watcher
 - For example, scan/ocr print document
- Automatic annotation from definitive sources
- Assign, Annotate, Review, and Approve annotations
- Export for ingest into IR or directly ingest
- Export preservation spreadsheet

Workflow Diagram

Metadata Tool: Dissertation Project Workflow



Metadata

- Labels
 - Authors
 - Subjects
 - Abstract
 - Publication dates
 - Etc.
- Justification
 - Discovery
 - Indexing
 - Categorization
 - Preservation

Benefits for IR Content

- DSpace is the first IR to which MAGPIE exports
 - via CSV (with supporting tools), SAF, or REST API
- Facilitates controlled vocabulary
- Normalizes metadata
- Allows opportunity for curation of new and legacy metadata
- Custom forms for specific projects

Brief Demonstration

- User management
- Document management
 - Assign
 - Annotate
 - Review
 - Publish
- Export
 - CSV
 - SAF

Future Direction

- Semi-automatic abstract, author, and citation extraction
- Statistical Classification
- Topic Modeling

Thank You.

Any Questions?

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