Piecing it All Together: Collection Manager and CoMET: Collection Metadata Enterprise Tool

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NOAA’s National Centers for Environmental Information

NOAA EDM Workshop 2018
NCEI’s Open Data Framework 10,000 ft

Data Producers and Operators
- S2N
- ATRAC
- Common Ingest

Data Ingest Services

Data Managers and Data Scientists
- Collection Manager
- Inventory Manager
- Metadata Management Services

Data Consumers and the Public
- OneStop UI and Thin Portals
- Search and Discovery Services
- OneStop API

Data Managers and Operators
- Data Producers and Operators
- Metadata Management Services
- Archival Storage Services
- Data Consumers and the Public

Data Producers and Operators

Data Consumers and the Public

Archival Storage Services (via Mission Science Network)

Order Fulfillment + Access Services

Tape
Disk
Cloud
NCEI’s Open Data Framework 2,000 ft
CoMET: Collection Metadata Enterprise Tool

- **API-based**: external systems can manipulate metadata
- **Customizable Input forms**: different communities and different stages of the metadata lifecycle can have tailored input views
- **Extensible, format-neutral internal storage**: supports multiple standards and stakeholder requirements
- **Reusable components**: (like organizations and people) improves consistency and efficiency
- **Single Sign On**: goal is to use Login.gov

Testing underway! User feedback is essential!
**CoMET: Collection Metadata Enterprise Tool**

- **Best Practices**: supports all NOAA “best practice” metadata (*OneStop* and Rubric V2)
- **Keywords and Vocabularies**: provides APIs and GUls to support the use of common vocabularies (GCMD, CoRIS, etc.)
- **Version Control**: enable tracking and reporting, recover previous content
- **Coming Soon**:
  - Integrate with Inventory Manager
  - Groups and Roles (who can do what)
  - Workflow (edit, review, publish, retract)
  - Better accessibility (Section 508, contrast, colors)
  - Vocabulary and Component Guessing
Other Collection Manager Components

- **CEdit**: management framework for allowing easily customizable inputs forms without the need for additional software development
- **DocuComp**: system for managing reusable components of metadata, such as people and organizations
- **WAFs**: Web accessible folders for storing multiple exported views of the catalog
- **Rubrics**: services for testing the completeness and compliance of metadata
Summary and Next Steps

Working to deploy Collection Manager tools operationally

- Integrate the components to improve operational robustness (Common Ingest, AMS/IAF, CoMET, etc.)
- Improve CoMET tools through user testing and iterative enhancements (component lists, workflow, groups/roles, etc.)
- Develop transition plans, policies and procedures to integrate use of CoMET across NCEI
- Simplified “basic” user interface, like Send2NCEI, to walk a user through entry of discovery metadata
- Improve ease of extensibility of CoMET
Any Questions?

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CoMET: https://www.ncei.noaa.gov/cedit/brand/baker?brand=comet
Backup Slides