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Contact Information

Questions or feedback regarding this manual should be directed to the OneStop Metadata Content Team (lori.hager@noaa.gov, catherine.luquire@noaa.gov, paul.lemieux@noaa.gov)

If you encounter issues or need to report a bug in Metaserver, please send an email to ncei.collection-manager.support@noaa.gov. In the email, describe the issue or bug and steps required to replicate it. Additionally, provide your name and contact information if you wish to be contacted for issue clarification and/or to receive updates on the status of the issue.

Acknowledgements

Special thanks to Marty Aubrey, Charlie Burris and Jerri Reeves for their technical input.

Overview

Metaserver provides CoMET services without creating a metadata record, resolves xlinks, translates between different XML standards, and allows advanced users to process WAFs on demand.

Helpful quickfacts

1. ISO 19139 XML is the implementation of ISO 19115-2 XML.
2. If a user updates an in-use XML Component in Docucomp (https://data.noaa.gov/docucomp/), the user must republish records in CoMET (https://data.noaa.gov/cedit/) OR run a WAF on demand in Metaserver.
Getting Started

First-Time Users

Note: If a NOAA employee, manager must request access

- Email: ncei.collection-manager.support@noaa.gov
- Subject:
  - ‘New User for Metaserver for employee name’
- Body:
  - Employee’s Contact information
  - Associated program or agency
  - Intended usage

Logging In

- Access Metaserver at https://data.noaa.gov/metaserver/
- Select Login

![Welcome to Metaserver]

- Enter your email (without the @noaa.gov) and your email password OR login with ‘NOAA ICAM SSO’ button

![Login]

- ‘Select a certificate’, if prompted
  - Enter your PIN
- After authentication, a Warning banner is displayed
- Click ‘Accept’ to proceed
WARNING

You are accessing a U.S. Government information system, which includes:

1. This computer
2. This computer network
3. All Government-issued computers connected to this network
4. All Government-issued devices and storage media attached to this network or to a computer on this network

You understand and consent to the following:

- You may access this information system for authorized use only.
- Unauthorized use of the system is prohibited and subject to criminal and civil penalties.
- You have no reasonable expectation of privacy regarding any communication or data transferred or stored on this information system at any time and for any lawful Government purpose.
- The Government may monitor, intercept, audit, and search and seize any communication or data transferred or stored on this information system.
- Any communications or data transferred or stored on this information system may be disclosed or used for any lawful Government purpose.

This information system may contain Controlled Unclassified Information (CUI) that is subject to safeguarding or dissemination controls in accordance with law, regulation, or Government-wide policy. Accessing and using this system indicates your understanding of this warning.

ACCEPT
Record Services

- Click ‘Record Services’ from top banner

![Record Services menu]

- Below ‘Choose Input’
  - Either click ‘File’ next to ‘Choose Files’ to upload XML file saved on computer OR click URL to enter URL for remote XML file

![Choose Input section]

Note: Every service requires a 19139 Schema-Valid XML file. Check XML format prior to using other services.

- Below Choose Service
  - Click button next to ‘Check XML Format’
  - Submit

![Choose Service section]
● Message opens in new tab
  ○ Note: if XML has errors, ONLY first error will be displayed
    ■ Correct error
    ■ Repeat Check XML Format instructions
    ■ Correct any additional errors

RecordServices EXCEPTION...Error on line 52: element type "attribute" must be followed by either attribute specifications, ">" or "/">

● If XML has no errors

Xml is well formed.

● Close message tab and return to Record Services tab
● Select one Service from Choose Service list
  ○ Resolve
  ○ ISO Validate
  ○ Link Check (slow)
  ○ ISO to Rubric V2
  ○ ISO to Rubric V1
  ○ FGDC to ISO
  ○ NCML to Rubric
  ○ NCML to ISO

● Click ‘Submit’

Choose Service
  ○ Check XML Format  Check for well formed XML. Input: Any XML file.
  ○ Resolve  Resolve URL references to components. Input: 19139 schema valid XML file
  ○ ISO Validate  Validate metadata with 19139 Schema. Input: 19139 XML file
  ○ Link Check (slow)  Verify URLs are valid. Input: 19139 schema valid XML file
  ○ NCEI Landing Page  Generate the NCEI Landing page view based on a valid ISO 19115-2 XML file.
  ○ ISO To Rubric V2  Generate completeness assessment report. Input: 19139 schema valid XML file
  ○ ISO To Rubric V1  Generate completeness assessment report. Input: 19139 schema valid XML file
  ○ FGDC To ISO  Translate from C3DGM to ISO 19115-2. Input: C3DGM valid XML file
  ○ NCML To Rubric  Generate completeness assessment report. Input: NetCDF XML
  ○ NCML To ISO  Translate from NCML to ISO 19115-2. Input: ACD compliant NetCDF XML

Submit

Note: If error message received for any services, refer to ‘Check XML Format’ instructions, e.g.
  ● RecordServices EXCEPTION...unable to resolve document...
  ● org.xml.sax.SAXParseException
Resolve

Resolve URL references to components. Input: 19139 schema valid XML file. Resolving records with Docucomp Components (Xlinks) allows users to see how the record will look published. This feature will not resolve a component with errors, so this feature is a method to allow users to check that components are correct.

- XML opens in new tab
  - Note six highlighted resourceConstraint tags are populated with XML.

This is the same XML file, but unresolved. Note the four highlighted “resourceConstraint” tags are only populated with Xlinks.
ISO Validate


- 19139 Schema-valid ISO

![Validation Report](image1)

- Example: failed XML schema validation. Report will display all errors.

![Validation Report](image2)
Link Check (slow)

Verify CI_OnlineResource URLs are valid. Input: 19139 schema valid XML file. This service is noted as slow as it does not run as fast as the others.

  - No broken links
    - Number of Unique Bad OnlineResource URLs = 0    Total URL hits = 0
  - Example: Broken links:
    - Lists broken link(s) and number of times links appear within XML
    - Lists Unique Bad URLs and Total URL hits
      - Number of Unique Bad OnlineResource URLs = 2    Total URL hits = 3

NCEI Landing Page

Generate the NCEI Landing page view based on a 19139 schema valid XML file.
ISO to Rubric V2


ISO to Rubric V1

Generate a V1 completeness assessment report. Input: 19139 schema valid XML file.
FGDC to ISO

Non-functional

NCML to Rubric

Generate a completeness assessment report. Input: NetCDF XML

NetCDF Attribute Convention for Dataset Discovery

Title: AF TRIR
Total Score: 20/28

General File Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Attributes</td>
<td>10</td>
<td>6.25</td>
</tr>
<tr>
<td>Number of Variables</td>
<td>3</td>
<td>6.25</td>
</tr>
<tr>
<td>Number of NetCDF Files</td>
<td>1</td>
<td>6.25</td>
</tr>
<tr>
<td>Percentage Complete</td>
<td>50.0%</td>
<td>6.25</td>
</tr>
<tr>
<td>Total Score</td>
<td>20/28</td>
<td>6.25</td>
</tr>
</tbody>
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Identification / Metadata Reference Score: 4/4

Text Search Score: 4/7

NCML to ISO

Translate from NCML to ISO 19115-2. Input: ACDD compliant NetCDF XML

v1.7.3
Collection Services

WAF On Demand

Web Accessible Files (WAFs) are configured to be refreshed on a recurring basis. (Insert comment about how often WAFS are refreshed is configured at setup). WAF On Demand is available to users that need to refresh an entire WAF immediately. WAF On Demand resolves Xlink components, generates rubric and diagnostic reports, and Table of Contents for a public WAF. This service is for legacy customers and it is recommended that new customers publish records through CoMET (https://data.noaa.gov/cedit/).

- Click ‘Collection Services’ from top banner
- From ‘WAF NAME’ dropdown menu, select a WAF

![Collection Services](image)

- Select ‘WAF On Demand’
- Click ‘Submit’

![Collection Services](image)

- Message appears ‘On Demand has been requested for (WAF name)’
If ONDEMAND not selected, receive error message

An unexpected error occurred while processing your request.
subject = [production]
Application Error occurred : ""