

Member Nodes - MNDeployment #3228

NCEI - National Centers for Environmental Information

2012-09-06 21:47 - Matthew Jones

Status:	Operational	Start date:	2012-09-06
Priority:	Normal	Due date:	
Assignee:	Dave Viegla	% Done:	96%
Category:		Estimated time:	0.00 hour
Target version:	Operational	MN_Date_Online:	2016-03-31
Latitude:	38.89	Name:	
Longitude:	-77.03	Logo URL:	
MN Description:	The NOAA National Centers for Environmental Information (NCEI) manages the world's largest collection of freely available oceanographic data. The oceanographic archive includes data dating back to the 1700s from every imaginable platform and from every corner of the world ocean. NCEI is the merger of NOAA's three former National Data Centers: The National Oceanographic Data Center (NODC), the National Climatic Data Center (NCDC), and the National Geophysical Data Center (NGDC). Currently, the holdings of the former NODC are available through DataONE though NCEI is investigating the possibility of including more of its environmental data holdings from the atmospheric, climatic, and geophysical domains.		
Base URL:	https://www.ncei.noaa.gov/	Date Upcoming:	
NodeIdentifier:	urn:node:NCEI	Date Deprecated:	
MN Tier:	Tier 1	Information URL:	
Software stack:	CSW slender node	Version:	
Description			
This issue is to track the contact to and potential deployment of an NODC (National Oceanic Data Center) member node.			
Google doc outlining plans: https://docs.google.com/document/d/1C2UB67KsL1YmZG8qFIMcZneNbbsopPO4zMtLY7-IQE/edit			
Subtasks:			
Task # 3229: contact NODC to continue discussions about an NODC MN			Closed
Task # 6762: Notes from call 20150116 and forward			Closed
Task # 6806: NODC: Join DataONE			Closed
Task # 6807: NODC: Scope the implementation			Closed
Task # 6808: NODC: Plan the implementation			Closed
Story # 6809: NODC: Design, code and component test a new MN implementation			Closed
Task # 6982: FTP Client to retrieve package and package component URLs			Closed
Task # 6983: Determine type of metadata and the rules for parsing for indexing			Closed
Task # 6984: For each Tier 1 MN method, determine how response should be constructed			Closed
Task # 6985: Create resource map documents for each package			Closed
Task # 6990: rerun nodc_listObjects tomorrow to see if any ID values have changed			Closed
Task # 6986: Strategy for synchronizing content after it changes on the NODC server			Closed
Task # 6987: Some FTP end points do not have a manifest document - how to handle?			Closed
Task # 6988: Create System Metadata for data objects			Closed

Task # 6989: Determine how to map objects to DataONE object formats	Closed
Task # 6810: NODC: Implement search index and display support for any new metadata form...	Closed
Task # 6811: NODC: Register any new object formats in all environments	Closed
Task # 6812: NODC: Local Testing	Closed
Task # 6813: NODC: Establish DataONE user identity in Testing Environment	Closed
Task # 6814: NODC: Configure SSL Certificates for Testing Environment	Closed
Task # 6815: NODC: Verify MN Content and Services in Testing Environment	Closed
Task # 6816: NODC: Register MN in Testing Environment	Closed
Task # 6817: NODC: Verify CN Content and Services in Testing Environment	Closed
Task # 6818: NODC: Check Authentication and Authorization in Testing Environment	Closed
Task # 6819: NODC: Show MN as "upcoming" on the dashboard	Closed
Task # 6820: NODC: Establish DataONE user identity in Production	Closed
Task # 6821: NODC: Configure SSL Certificates for Production	Closed
Task # 6822: NODC: Verify MN Content and Services in Production	Closed
Task # 6823: NODC: Register MN in Production	Closed
Task # 6824: NODC: Verify CN Content and Services in Production	Closed
Task # 6825: NODC: Check Authentication and Authorization in Production	Closed
Task # 6826: NODC: Mutual acceptance	Closed
Task # 6827: NODC: Ensure MN appears on Current MNs webpage (dashboard)	Closed
Task # 6828: NODC: Document and Announce	Closed
Task # 8585: GMN not syncing obsoletedBy field correctly	Closed
Task # 8681: NCEI - install new GMN	New
Related issues:	
Related to Member Nodes - Support #8017: NCEI - Implement GMN for replicating...	New 2017-02-14

History

#1 - 2012-09-06 21:49 - Matthew Jones

- Subject changed from deploy the NODC member node to Deploy the NODC member node

#2 - 2013-01-30 18:40 - Matthew Jones

- Start date deleted (2012-09-06)

#3 - 2013-01-30 19:51 - John Cobb

- Subject changed from Deploy the NODC member node to NODC member node

#4 - 2013-01-30 20:14 - Matthew Jones

- Due date set to 2014-01-31

- Target version set to Deploy by end of Y5Q2

- Start date set to 2013-01-30

#5 - 2013-08-01 23:10 - John Cobb

- Due date changed from 2014-01-31 to 2014-08-01

- Target version changed from Deploy by end of Y5Q2 to Deferred

Documenting conversation with John Cobb, Dave Vieglaiss, and Matt Jones at the Knoxville Meeting in July:

NODC does not, at present have logging capability. How this will be resolved is not yet known. NODC may implement this functionality, or slender node might finesse the issue or ...

Moving to a deferred wait-state while a work-out is found.

#6 - 2013-08-23 13:00 - Bruce Wilson

- Status changed from New to Deferred

Updating status to Deferred, per above comments.

#7 - 2014-05-19 12:33 - Bruce Wilson

- Due date deleted (2014-08-01)

- Status changed from Deferred to New

- Target version deleted (Deferred)

- Start date deleted (2012-09-06)

Moving this out of Deferred and into the Backlog, as the developments with the DAP MN stack make this a more feasible option.

#8 - 2014-12-23 20:26 - Matthew Jones

Through contacts with NODC, the sent the following service endpoints that may be the best place for implementation of a Slender Node. I suspect that CSW would work well for this.

links to our WAF and some example landing pages. We do also provide CSW, OpenSearch and OAI-PMH endpoints to the the metadata so you can see it through those services as well.

NODC ISO WAF: <http://data.nodc.noaa.gov/nodc/archive/metadata/approved/iso/>

NODC ISO landing page

<http://data.nodc.noaa.gov/cgi-bin/iso?id=gov.noaa.nodc:0110317:view=html>

http://data.nodc.noaa.gov/cgi-bin/iso?id=gov.noaa.nodc:AVHRR_Pathfinder-NODC-L3C-v5.2

CSW for collection level discovery

<http://data.nodc.noaa.gov/geoportal/csw/discovery?Request=GetCapabilities&Service=CSW&Version=2.0.2>

Opensearch description for collection level discovery

<http://data.nodc.noaa.gov/geoportal/openSearchDescription>

OAI-PMH endpoint

<http://data.nodc.noaa.gov/cgi-bin/oai-pmh>

#9 - 2014-12-23 20:55 - Matthew Jones

An example CSW request that lists the first 20 records from their CSW service:

<http://data.nodc.noaa.gov/geoportal/csw/discovery?Request=GetRecords&Service=CSW&Version=2.0.2&ElementSetName=brief&resultType=results&outputFormat=text/xml&startPosition=1&maxRecords=20>

Each of these records has an embedded link to the associated ISO metadata document, such as:

@
<http://data.nodc.noaa.gov/geoportal/csw?getxml=%7B8C6DFB99-02E6-482B-BE81-3E9651A0F472%7D/dct:references@>

It also has a link to a service that lists the data granules, which in this case there are more than 16K:

@

http://www.nodc.noaa.gov/geoportal/rest/find/document?searchText=fileIdentifier%3AUPA-L2P-ATS_NR_2P*&start=1&max=100&f=searchPage/dct:references@

We would need a way to get SystemMetadata for all of the data granules, particularly the checksum.

#10 - 2015-01-02 17:04 - Laura Moyers

- Start date set to 2015-01-02
- Target version set to In Progress
- Status changed from New to Planning
- Due date set to 2015-09-30

Targeting for implementation by 31 Mar 2016.

#11 - 2015-01-22 15:47 - Dave Viegla

- Description updated

#12 - 2015-01-30 19:00 - Laura Moyers

- % Done changed from 0 to 10
- Target version changed from In Progress to Deploy by end of Y1Q4

#13 - 2015-04-17 14:38 - Laura Moyers

- Status changed from Planning to Ready

#14 - 2015-05-29 20:28 - Laura Moyers

- Subject changed from NODC member node to NCEI - National Centers for Environmental Information (was NODC)
- NodeIdentifier set to urn:nodc:NCEI
- MN Tier set to Tier 1
- Software stack set to CSW slender node

NODC has finished their reorganization with NCDC and NGDC, so we should refer to this MN as NCEI now (National Centers for Environmental Information)

<https://www.ncei.noaa.gov/>

#15 - 2015-08-18 00:39 - Laura Moyers

- Target version changed from Deploy by end of Y1Q4 to Deploy by end of Y2Q1

#16 - 2015-10-28 22:43 - Laura Moyers

- Assignee changed from Matthew Jones to Dave Viegla

Plan to have an operational MN in stage before Christmas. Mark Flynn will be lead after he finishes up GMN V2 updates (by Thanksgiving). AHM 10/28/15

#17 - 2016-01-11 16:24 - Laura Moyers

- Target version changed from Deploy by end of Y2Q1 to Deploy by end of Y2Q2

#18 - 2016-01-14 15:12 - Laura Moyers

- Latitude set to 38.89
- Longitude set to -77.03

#19 - 2016-03-29 11:04 - Laura Moyers

- Status changed from Ready to Operational
- MN Description set to The NOAA National Centers for Environmental Information (NCEI) manages the world's largest collection of freely available oceanographic data. The oceanographic archive includes data dating back to the 1700s from every imaginable platform and from every corner of the world ocean. NCEI is the merger of NOAA's three former National Data Centers: The National Oceanographic Data Center (NODC), the National Climatic Data Center (NCDC), and the National Geophysical Data Center (NGDC). Currently, the holdings of the former NODC are available through DataONE though NCEI is investigating the possibility of including more of its environmental data holdings from the atmospheric, climatic, and geophysical domains.
- Base URL set to <https://www.ncei.noaa.gov/>

The metadata-only version of the NCEI MN is operational and in production. Additional functionality will be deployed as developed/tested.

#20 - 2016-03-29 13:30 - Laura Moyers

- Target version changed from Deploy by end of Y2Q2 to Operational

#21 - 2016-04-06 14:24 - Laura Moyers

- Subject changed from NCEI - National Centers for Environmental Information (was NODC) to NCEI - National Centers for Environmental Information

#22 - 2016-06-03 19:47 - Laura Moyers

- MN_Date_Online set to 2016-03-31

#23 - 2017-02-13 20:35 - Monica Ihli

- Related to Support #8017: NCEI - Implement GMN for replicating Arctic Data Center Data added

#24 - 2018-01-10 01:14 - Dave Vieglais

- Sprint set to Ongoing Operational

#25 - 2019-07-08 16:28 - Amy Forrester

Per Robert.McGuinn@noaa.gov

Northern Gulf Institute, Mississippi State University to start adding regular updates of their deep sea coral and sponge database to the NCEI archive