

## Member Nodes - MNDeployment #6548

### R2R Repository

2014-11-06 20:47 - Matthew Jones

<b>Status:</b>	Operational	<b>Start date:</b>	2015-03-20
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Monica Ihli	<b>% Done:</b>	89%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Operational	<b>MN_Date_Online:</b>	2017-01-18
<b>Latitude:</b>	41.02	<b>Name:</b>	
<b>Longitude:</b>	-73.91	<b>Logo URL:</b>	
<b>MN Description:</b>	Rolling Deck to Repository (R2R) is the repository for environmental sensor data routinely acquired by oceanographic vessels in the U.S. academic research fleet. The fleet supports hundreds of expeditions around the world each year, ranging from oceans to coasts and estuaries to the Great Lakes. R2R provides a master catalog of expeditions (cruises); an inventory of original field datasets; processed datasets including shiptrack navigation; and links to related publications and content at partner repositories.		
<b>Base URL:</b>	<a href="http://www.rvdata.us/">http://www.rvdata.us/</a>	<b>Date Upcoming:</b>	
<b>NodeIdentifier:</b>	urn:node:R2R	<b>Date Deprecated:</b>	
<b>MN Tier:</b>	Tier 1	<b>Information URL:</b>	
<b>Software stack:</b>	Slender Node (GMN)	<b>Version:</b>	
<b>Description</b>			
The Rolling Deck to Repository (R2R) ( <a href="http://www.rvdata.us/">http://www.rvdata.us/</a> )			
Main contact: Bob Arko <a href="mailto:arko@ldeo.columbia.edu">arko@ldeo.columbia.edu</a>			
As of today, the R2R repository holds over 17,444,740 data files from 3686 cruises using 26 vessels.			
Implementation: Interested in deploying this using DSpace which they already have operational.			
Associated with GeoLink project which Matt Jones and Mark Schildhauer are on.			
<b>Subtasks:</b>			
Task # 6923: R2R: Scope the implementation			Closed
Task # 6924: R2R: Plan the implementation			Closed
Task # 6925: R2R: Design, code and component test a new MN implementation			Closed
Task # 6927: R2R: Register any new object formats in all environments			In Progress
Task # 6928: R2R: Local Testing			Closed
Task # 6929: R2R: Establish DataONE user identity in Testing Environment			Closed
Task # 6930: R2R: Configure SSL Certificates for Testing Environment			Closed
Task # 6931: R2R: Verify MN Content and Services in Testing Environment			Closed
Task # 6932: R2R: Register MN in Testing Environment			Closed
Task # 6933: R2R: Verify CN Content and Services in Testing Environment			Closed
Task # 6934: R2R: Check Authentication and Authorization in Testing Environment			Closed
Task # 6935: R2R: Show MN as "upcoming" on the dashboard			Closed
Task # 6936: R2R: Establish DataONE user identity in Production			Closed
Task # 6937: R2R: Configure SSL Certificates for Production			Closed

Task # 6938: R2R: Verify MN Content and Services in Production	Closed
Task # 6939: R2R: Register MN in Production	Closed
Task # 6940: R2R: Verify CN Content and Services in Production	Closed
Task # 6941: R2R: Check Authentication and Authorization in Production	Closed
Task # 6942: R2R: Mutual acceptance	Closed
Task # 6943: R2R: Ensure MN appears on Current MNs webpage (dashboard)	Closed
Task # 6944: R2R: Document and Announce	Closed
Task # 6922: R2R: Join DataONE	Closed
Task # 7899: R2R: modify searchUI to accommodate composite data density with cruise paths	New
Task # 7900: R2R: modify searchUI to accommodate cruise path display for single data pa...	New

## History

### #1 - 2015-03-10 18:37 - Laura Moyers

- Target version set to Deploy by end of Y2Q1

### #2 - 2015-04-17 14:39 - Laura Moyers

- Status changed from New to Planning

- % Done changed from 0 to 10

### #3 - 2015-05-30 00:34 - Laura Moyers

- NodeIdentifier set to urn:node:R2R

### #4 - 2015-12-03 20:51 - Laura Moyers

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

### #5 - 2016-03-31 17:29 - Laura Moyers

- Base URL set to <http://www.rvdata.us/>

- Software stack set to DSpace

### #6 - 2016-04-04 18:10 - Laura Moyers

- Target version changed from Deploy by end of Y2Q2 to Deploy by end of Y2Q3

### #7 - 2016-06-15 18:26 - Laura Moyers

- Target version changed from Deploy by end of Y2Q3 to Deploy by end of Y2Q4

### #8 - 2016-09-07 20:52 - Laura Moyers

Meeting 7 September 2016 with Bob, Dave, Mark and Laura: Bob wants to implement a Slender Node in order to have a MN presence sooner rather than later, but "later" he'd like to revisit the DSpace implementation.

Next steps:

Bob:

CSW endpoint decisions

plan for hosting the GMN

DataONE:

investigate more sophisticated geometries

ensure GMN v2 is live

update redmine ticket to reflect our new direction

Meeting notes: [https://epad.dataone.org/pad/p/R2R\\_and\\_DataONE](https://epad.dataone.org/pad/p/R2R_and_DataONE)

## #9 - 2016-09-12 17:15 - Laura Moyers

- Target version changed from Deploy by end of Y2Q4 to Deploy by end of Y3Q1

## #10 - 2016-09-28 16:43 - Laura Moyers

Meeting 28 September 2016 with Bob, Dave, Mark and Laura. Meeting notes: [https://epad.dataone.org/pad/p/R2R\\_and\\_DataONE](https://epad.dataone.org/pad/p/R2R_and_DataONE)

From last time:

Bob:

- CSW endpoint decisions <http://api.rvdata.us/>

question: what's the mutability of this content? metadata could change if we learn more about a cruise, but the DOI will NOT change

the R2R DOI will be conceptually the SID (series identifier); the PID could be the checksum of the object, or a timestamp (if that is reliable)

clarification: R2R will be metadata-only at least at first. Bob says he'd like to include a link back to the actual content/data in the metadata.

provide a couple NCEI examples to Bob

a single cruise can have multiple data sets associated with it, each with its own DOI

comment: an abstract would be helpful in discovery

there is a lengthy POC section (wonder how this would render?)

Bob wants to update DOIs in his endpoint, etc.

- plan for hosting the GMN

- preferred that long-term, R2R host the GMN, but for our December (R2R: 1 Dec; DataONE: 7 Dec) deadlines, it would be easier for DataONE to host the GMN (which Bob could later grab and "copy")

DataONE:

- investigate more sophisticated geometries - Dave had talked with Lauren, who said that as long as the path is expressed in the metadata, the rendering of such shouldn't be a problem. This is for results for a single data package. The overall geospatial rendering or data density (i.e. for all R2R content), it would be a little more difficult to render cruise paths. Requires geohashes.

- ensure GMN v2 is live

- update redmine ticket to reflect our new direction (DONE)

Next steps:

Bob:

- Firm up the CSW implementation

- ensure gmd: date stamp reflects the last updated date

- add in online distribution info (URL)

DataONE:

- Send NCEI examples to Bob (including online distribution info) (Dave)

<https://cn.dataone.org/cn/v2/resolve/%7B289A1374-D916-42F3-97C4-90F0E188E96C%7D>

<https://cn.dataone.org/cn/v2/resolve/%7BF52B9C6F-681D-453C-AE24-31AAB68AD069%7D>

<https://cn.dataone.org/cn/v2/resolve/%7B23071751-5A5F-4C04-A0BC-A92C8A4E0C91%7D>

Service Title: //gmd:distributionInfo/gmd:MD\_Distribution/gmd:distributor/gmd:MD\_Distributor/gmd:distributorTransferOptions/gmd:MD\_DigitalTransferOptions/gmd:onLine/gmd:CI\_OnlineResource/gmd:name/gco:CharacterString

Service Description:

//gmd:distributionInfo/gmd:MD\_Distribution/gmd:distributor/gmd:MD\_Distributor/gmd:distributorTransferOptions/gmd:MD\_DigitalTransferOptions/gmd:onLine/gmd:CI\_OnlineResource/gmd:description/gco:CharacterString

Service Type:

```
//gmd:distributionInfo/gmd:MD_Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/gmd:MD_DigitalTransferOptions/gmd:online/gmd:CI_OnlineResource/gmd:protocol/gco:CharacterString
```

Service Endpoint:

```
//gmd:distributionInfo/gmd:MD_Distribution/gmd:distributor/gmd:MD_Distributor/gmd:distributorTransferOptions/gmd:MD_DigitalTransferOptions/gmd:online/gmd:CI_OnlineResource/gmd:linkage/gmd:URL
```

```
| //gmd:distributionInfo/gmd:MD_Distribution/gmd:transferOptions/gmd:MD_DigitalTransferOptions/gmd:online/gmd:CI_OnlineResource/gmd:linkage/gmd:URL
```

- Set up GMN when v2 is available (testing GMN v2, the R2R adapter/connector, and the R2R endpoint)
- Laura to create redmine tickets for the searchUI mods (Lauren can execute when there is R2R data available)
- Mark to inquire with Roger re: GMNv2
- Mark to set up a VM for a test instance of GMNv2
- Laura to verify existence of MNDD - DONE, on redmine ticket [#6922](#)

#### #11 - 2016-11-09 20:57 - Dave Vieglais

- Software stack changed from DSpace to Slender Node (GMN) -DSpace-

Updating to reflect the use of GMN as a slender node for the R2R repository.

#### #12 - 2016-12-08 18:26 - Dave Vieglais

- Status changed from Planning to Testing

- % Done changed from 10 to 50

#### #13 - 2017-01-10 18:21 - Laura Moyers

- Assignee changed from Laura Moyers to Monica Ihli

- Status changed from Testing to In Review

- % Done changed from 50 to 80

In review. As of 19 December 2015, there were 1820 objects on the R2R MN, 1781 on the CNs and 1781 indexed. We need to identify as much as possible if the cause of the non-sync condition is something that Bob can fix at the MN level or not.

#### #14 - 2017-01-19 01:09 - Laura Moyers

- MN\_Date\_Online set to 2017-01-18

- Software stack changed from Slender Node (GMN) -DSpace- to Slender Node (GMN)

- Status changed from In Review to Operational

R2R announced today:

<https://www.dataone.org/news/oceanographic-data-more-broadly-discoverable-rolling-deck-repository-r2r-program-joins-dataone>

We are still investigating 39 objects which did not synchronize. We think these are all ones which have an invalid date format in the system metadata.

**#15 - 2017-01-19 01:09 - Laura Moyers**

- Target version changed from Deploy by end of Y3Q1 to Operational

**#16 - 2017-01-26 22:52 - Laura Moyers**

- MN Description changed from *The Rolling Deck* to *Repository (R2R)* program aims to develop comprehensive fleet-wide management of underway data to ensure preservation of and access to our national oceanographic research data resources. R2R provides is a central gateway through which underway data from oceanographic expeditions will be routinely cataloged and securely transmitted to national long-term archives including the National Geophysical Data Center (NGDC) and National Oceanographic Data Center (NODC). Data submission will be established through vessel operators rather than individual science parties. to *Rolling Deck* to *Repository (R2R)* is the repository for environmental sensor data routinely acquired by oceanographic vessels in the U.S. academic research fleet. The fleet supports hundreds of expeditions around the world each year, ranging from oceans to coasts and estuaries to the Great Lakes. R2R provides a master catalog of expeditions (cruises); an inventory of original field datasets; processed datasets including shiptrack navigation; and links to related publications and content at partner repositories.

MN Description changed per Bob Arko. To be shown on MN profile page in DataONE Search.

**#17 - 2017-01-26 23:08 - Matthew Jones**

Laura -- the MN description text is controlled by the MN through the updateCapabilities() service, that gives them the ability to change their own name, description, etc. in the node registry. After they change it, we may need to trigger an update on the CN end before it shows up, but it should be in their control.

**#19 - 2018-01-09 21:00 - Dave Vieglais**

- Sprint set to Ongoing Operational

**#20 - 2018-07-26 13:49 - Amy Forrester**

7/25/18: I have replaced Bob Arko as the Technical Director for R2R, so I should be the new contact. Please let me know if you have any questions.  
Suzanne O'Hara [sohara@ldeo.columbia.edu](mailto:sohara@ldeo.columbia.edu)