

	National Environmental Information Infrastructure	26 February 2018
		NEMSR WG Meeting #04
		Outcomes (final)

MEETING #04 – OUTCOMES

Meeting	Meeting #04 – National Environmental Monitoring Sites Register Working Group
Chair	Andre Zerger, Bureau of Meteorology
Meeting Date	26 February 2018 – 2.30pm to 4pm
Attendees	Andre Zerger (BoM), Chantelle Doan (BoM), Nathan Campbell (BoM), Tim Edwards (BoM), Karl Monnik (BoM), Matt Tully (BoM), Natalia Atkins (IMOS), Siddeswara Guru (TERN), David Lescinsky (GA), Ben Seddon (MDBA), Jane Stewart (DAWR)

1. Welcome, introductions and actions (Andre Zerger)

Andre welcomed members to the meeting acknowledging their ongoing contribution to the group. New attendees included David Lescinsky (GA) and Ben Seddon (MDBA). Member's contribution through on-boarding new networks was also noted with significant recent progress being made bringing the total number of networks to 26. This represents a significant increase since the first release of the product with 13 networks, around 12 months ago.

There were no outstanding actions from the Meeting #03 and minutes were accepted.

2. NEMSR update (Chantelle Doan)

Chantelle provided an update on the onboarding progress and provided a walk-through of the system enhancement plans for NEMSR. The recent addition of the AusPollen network and air quality monitoring networks from three states have been welcome additions. The NEII team will continue engaging with other jurisdictions to iteratively develop a national coverage of air quality monitoring sites. Members were asked to review the network tracker to note any new networks not currently identified. A number of smaller system enhancements have been scheduled including development of a reminder service to alert data providers through email, to update their networks. The NEMSR system enhancement roadmap is provided at Attachment A.

3. Decommissioned networks in NEMSR (Andre Zerger)

Andre introduced the concept of decommissioned networks in NEMSR as a mechanism to preserve historical information. This has been driven by a use-case from within the Bureau to decommission a public product (the Environmental Information Explorer) providing the opportunity to preserve that network in NEMSR.

The current focus of NEMSR has been on active or recent networks. Technically NEMSR can handle decommissioned networks but there is no simple way of identifying the network as decommissioned to users. It was noted that the information model does however provide support for decommissioned sites. Members did not have an immediate need for this capability but saw value in developing an approach for incorporating decommissioned networks.

The NEII team will continue working with the EI Explorer use-case to develop a possible approach and communicate this to the working group at the next meeting.

4. NEII Programme update (Chantelle Doan)

Chantelle provided an update highlighting current priority focus areas. This includes (a) developing and implementing a Benefits Realisation Plan and working with users to gain insights into how they are or can use the infrastructure, and (b) developing an analytics capability for NEII so we can better understand user patterns across the infrastructure. The analytics work is scheduled for completion in June 2018 with the aim of developing a dashboard providing user statistics to the programme and data providers.

5. Agency updates

GA

- GA are working on developing a capability to generate persistent identifiers for sites within their sample registration system noting that few of their monitoring sites would be considered as networks.

TERN

- Undergoing a restructure to a more centralised approach to data management.
- TERN has been engaged in the recently formed data services interest group chaired by ANDS. Information regarding the group is available at <http://www.ands.org.au/partners-and-communities/ands-communities/data-services-ig>

BoM

- Are working with the World Meteorological Organisation to meet the WMO WIGOS metadata standard (WMDS) and incorporate the globally unique standardised WIGOS station IDs.
- A significant update is in progress to update sites and networks in the water and flood space.

IMOS

- The IMOS Deep Water Mooring Network has recently been expanded and update in NEMSR.

MDBA

- MDBA are in the process of implementing an open data policy and looking into possible approaches for delivery. They're continuing to work with the Atlas of Living Australia to warehouse selected environmental data.

SUMMARY OF ACTIONS

NEMSR WG04.1	BoM (NEII team) to circulate NEMSR system enhancements roadmap (Closed)
NEMSR WG04.2	BoM (Karl Monnik) to circulate information regarding the WMO approach to generate standard station identifiers (Open)
NEMSR WG04.3	TERN to provide information to working group members regarding the ANDS hosted data services special interest group (Closed)

Attachment A

NEII NEMSR Planned Enhancements 2018		
Data61 - enhancements to the NEII Viewer (map interface)	Enhancements Priority	
search via keywords (searching any word in the record)	Develop a reminder system for regular network updates	Auto-disable user login after 5 failed attempts
search by network name (including individual words in name e.g. phytoplankton)	Ensure 'Network ID' field displays on the Viewer	System to keep record of user login fails
search by state (including multiple states)	Ensure Site ID field displays on the Viewer.	Add additional step in upload process for Data Provider to validate file before uploading
search by site name	Fix endpoint URLs inside the Viewer (currently displays extra characters)	Introduce an auto-alert email to Data Coordinator when new network is added directly by Data Provider
display multiple sites (even from different networks) to display at same time	Fix issue in the Viewer where GeoJSON URLs not hyperlinked (affects all networks)	Future Considerations
search by environmental theme (choose from list)	Fix issue where 'srsName' field is displaying as blank even though field is populated	Add functionality to output data in a range of formats including WFS formats
data provider (choose from list)	Fix issue where data entered in extension field values but not in extension field names, then does not appear in the Viewer - make both fields mandatory if any value is added in the other	GeoJSON script - 'no sites' in network returns upload error - get validator to fix this
search by site status (e.g. active or decommissioned sites)	For the upload validation script: introduce a mechanism to check for unrecognisable characters	Document the solution architecture for GeoServer
search by observation method (choose from list)	Fix issue for site URL formatting error - there are two URLs provided in the Site URL field, should display as two separate hyperlinks	
search for sites that were active or decommissioned during a specified time period	Improve wording when error returned 'file extension upload error'	
search by operating authority (choose from list)	Increase site and network description fields (number of characters allowed)	
Long term enhancements:		
Check that human interfaces of NEMSR shall conform to the same WCAG standard as neii.gov.au	Collect web analytics (benefits analysis)	