

**Lineage:**

- Initial version – Radim and Rashid, Aug 2016
- Minor edits – Bruce, Jan 2017

**User Story****8.1 Data Discovery****Version: 0.1****==== User Story ====****Related components: 4.3.1, 4.3.2, 4.3.3, 5.5, 8.2, 7.1.4 and 7.1.5**

A Climate Data Manager requires functionality to generate Discovery metadata catalogue in order to publish the NMHS data holdings.

The Climate Data Manager requires functionality to allow data management staff to:

- Create and update the Discovery metadata catalogue when needed
- Create and update the Observation metadata catalogue manually when needed and also automatically at regular time intervals (monthly, weekly or even daily)
- Create and update the Provenance metadata catalogue when needed
- Store these catalogues in the database
- Export the Discovery metadata catalogue in suitable format and integrate it in the WIS

This component needs to ensure:

- that only authorized staff can update the catalogue
- comply with WIS

**===== end =====***Reference: WMO 1131***Bruce Bannerman 1/2/2017 16:12****Comment [1]:**

Much more work is needed here :

- Separate out the various types of metadata with their own dedicated catalogue and functionality, i.e. :
  - Discovery Metadata using ISO 189115
  - Observations Metadata Using WIGOS Metadata standard
  - Data Provenance using a combination of ISO 19115 and W3C Prov-O
  - Data Intellectual Property using ???
- Separate out the functionality :
  - Enter the metadata
  - Maintain the Metadata, + statistics etc
  - Search the metadata
  - Integrated data/metadata search
  - Federate the catalogues
  - Download the metadata
  - Download data, with the metadata