# Member Node Description: EDAC-GSTORE

Version 1.0 6/14/2012 Authors

## General

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| --- | --- |
| Name of resource: |  |
| URL(s): | http://gstore.unm.edu/apps/dataone/v1 |
| Institutional affiliation(s): | Earth Data Analysis Center, University of New Mexico |
| Primary geographic location: | Albuquerque, New Mexico, United States |
| Project Director & contact info: | Karl Benedict |
| Technical Contact & contact info: | Soren Scott |
| Age of resource: |  |
| Funding support: |  |
| Proposed Unique Identifier: | urn:node:XXXX (max 16c) |

## Content

### Content description/collection policy (1 paragraph, domain and spatial/temporal coverage, uniqueness of content, exclusions, as applicable):

Spatial coverage: state of New Mexico

Temporal coverage: at least 1935 to present

Uniqueness: (not sure)

### Types of data (complex objects, text, image, video, audio, other):

Complex data (rasters, vectors)

### Data and metadata availability (rights, licensing, restrictions):

Public, no access restrictions

### Option for embargo (yes/no, duration):

no

### Size of holdings (number and size of datasets, mean and median granules (files) per dataset):

potentially 8-10TB and increasing

### Please describe recent usage statistics, if known, including information on annual data product downloads, annual number of users, annual number of data products used in publications:

43TB data downloaded in 2011

## User interactions

### How does a user contribute data? (what can be deposited, how are data prepared, are specific software required, documentation/support available)

Users provide data to Clearinghouse staff or through the NM EPSCoR projects. In most cases, the users provide FGDC metadata that is checked and validated by EDAC staff (we require valid metadata for a dataset before adding it to the system). Where possible, EDAC staff provides support for metadata generation.

### How does a user acquire / access data?

Data can be accessed through the RGIS clearinghouse, the NM EPSCoR data portal or directly through the API.

### What user support services are available (both for depositing and accessing/using data)?

Help for data access/data discovery is available through the RGIS Clearinghouse. Help for depositing data is available through EDAC staff through RGIS or NM EPSCoR.

### How does the resource curate data at the time of deposit?

Metadata is checked for completeness against dataset and also validated before being posted to GSTORE

## Technical characteristics and policies

### Software platform description, incl. data search and access API(s):

Pyramid (python 2.7.2) API with dataset metadata stored in PostgreSQL database and vector attribute data stored in MongoDB 2.2

Search is available through the GSTORE API by publication date, dataset dates, spatial extent, ontology, dataset type and geometry type, keyword.

Service reliability (including recent uptime statistics, frequency of hardware refresh, if known):

New hardware for the app/databases every couple of years? Uptime is tricky - the app cluster is generally stable; individual app uptime is unknown (we will check)######

Preservation reliability (including replication/backup, integrity checks, format migration, disaster planning):

User authentication technology (incl. level of create/modify/delete access by users):   
**Create/modify/delete bu EDAC staff only. Read access through the API is public.**

### Data identifier system and data citation policy, if available:

All datasets are assigned a UUID(4).

### Metadata standards (**including** provenance):

Currently, FGDC. We plan on shifting to ISO 15119 with some datasets having PML2/PML3 provenance metadata.

## Capacity/services to DataONE

### At what functional tier will you initially be operating? (see http://bit.ly/MNFactSheet for definitions)

**Tier 1: Read only, public content**

**Tier 2: Read only with access control**

**Tier 3: Read/write using client tools**

**Tier 4: Able to operate as a replication target**

### If you can host data from other member nodes, what storage capacity is available?

### Can you provide computing capacity to the broader network? If so, please describe.

## Other Services

### What other services or resources (such as expertise, software development capacity, educational/training resources, or software tools) can be provided of benefit to the broader network?