

ESGF Publication, Security, and Data Management for CMIP6

Reporting period: July 1 2017 to September 30 2017

This is a report of work completed for the third quarter of Year 3 for the subaward to University of Chicago: ESGF Publication, Security, and Data Management for CMIP6.

Installation and admin guide

Maintained the monitoring systems for the production and test federation nodes, <https://esgf.anl.gov/monitor/>, <https://esgf.anl.gov/monitor/testfed/>. Proactively contacted the admins of failing nodes and helped them investigate and fix the issues.

Tested ESGF 2.5.x on the ANL development node. Upgraded the ANL ESGF production node to version 2.5.9 and 2.5.13-master-release.

ESGF Security

Managed the ANL ESGF CA. Signed multiple host and intermediate CA certificates for LLNL, NCCS, DIASJP, CMCC, NCI.

Wrote the ESGF Auth web application to support both OpenID and OAuth2 authentication protocols in ESGF, <https://github.com/lukaszlacinski/esgf-auth>. The web application will replace the ESGF ORP that supports OpenID only. Developing installer scripts for both the ESGF Auth web application and the Ingestion REST API.

Deployed the CEDA authentication filter and tested the filter with the ESGF Auth web application.