**Data Management Environment (DME) Release Notes**

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| Release 2.7.0: April 30, 2021  ==============================================================  **Contents**  ==============================================================  1.0 DME Overview  2.0 Release History  3.0 New Features and Updates  4.0 Bug Reports and Support  5.0 Documentation  6.0 References  ==============================================================**1.0 DME Overview**  ==============================================================  The NCI Data Management Environment (DME) offers open-ended storage and management of scientific research datasets. It eliminates the need to maintain redundant copies of large heterogenous data and provides the ability to annotate, retrieve, and share datasets for further research, analysis, and collaboration.  The NCI Data Vault serves as the archive store for these datasets. It provides scalable, virtualized, high-reliability storage that is transparent to the end user. Data are stored as objects, which are organized into collections (folders), and a collection might have one or more subcollections within it. A collection can be identified by a custom collection type such as Project, Study, Sample, and so on, the default being collection type Folder.  DME provides an entry point to archive data to the NCI Data Vault, and to manage, transfer, access, and share data across disparate systems securely and efficiently. DME allows you to associate user-defined metadata to registered data at different points in the data life cycle. In addition, DME offers search capabilities to identify this data. A Division/Office/Center (DOC) can define its own metadata structure and data hierarchy rules, and grant permission to users as needed.  If you have an NIH account, the NCI Data Vault team can give you access to DME. For access requests or any other questions, contact [NCIDataVault@mail.nih.gov](mailto:NCIDataVault@mail.nih.gov).  ==============================================================  **2.0 Release History**  ==============================================================  v1.0.0 - December 28, 2016  v1.1.0 - May 15, 2017  v1.2.0 - June 23, 2017  v1.3.0 - September 15, 2017  v1.4.0 - November 6, 2017  v1.5.0 - December 11, 2017  v1.6.0 - February 7, 2018  v1.7.0 – March 29, 2018  v1.7.1 – May 21, 2018  v1.7.2 - June 12, 2018  v1.7.3 - July 24, 2018  v1.8.0 - September 28, 2018  v1.9.0 – November 20, 2018  v1.10.0 – December 18, 2018  v1.11.0 – March 1, 2019  v1.12.0 – April 1, 2019  v1.13.0 – May 3, 2019  v1.14.0 – June 4, 2019  v1.15.0 – July 9, 2019  v1.16.0 – August 21, 2019  v1.17.0 – September 13, 2019  v1.18.0 – October 11, 2019  v1.19.0 – November 8, 2019  v1.20.0 – December 2, 2019  v1.21.0 – January 9, 2020  v1.22.0 – February 6, 2020  v1.23.0 – March 9, 2020  v1.24.0 – April 1, 2020  v1.25.0 – May 8, 2020  v1.26.0 – June 4, 2020  v1.27.0 – July 8, 2020  v2.0.0 – August 27, 2020  v2.1.0 – September 24, 2020  v2.2.0 – October 16, 2020  v2.3.0 – December 29, 2020  v2.4.0 – January 26, 2021  v2.5.0 - February 25, 2021  v2.6.0 - March 31, 2021  v2.7.0 - April 30, 2021  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1458:Added the ability to optionally perform client side encryption (DME controlled) of data being stored to a vault. This has been added for Globus and synchronous (from local file system) uploads only. The data will be decrypted on download, if it is downloaded in the same manner (i.e. asynchronously using Globus, or synchronously to the local file system). This will be configured per S3 bucket.  HPCDATAMGM-1459: Added support for encrypting the data channel between the source and destination endpoints during Globus transfer (both upload and download). This will be performed per base path (root level directory of a user group).  **Misc/Bug Fixes:**  HPCDATAMGM-1445: Added *Created On* and *Completed On* columns in the Download Tasks screen of the Manage Download Tasks menu in the DME Web Application.  HPCDATAMGM-1447: Added *Task ID* field to the Download Task Details page of the DME Web Application. Removed the *Transfer Request ID* field for modalities other than Globus, since it will be blank. Additionally renamed this field as *Globus Transfer Request ID* and moved it to below the *Destination Type* field.  HPCDATAMGM-1403: Renamed *Parent Metadata* section on the Collection and File Details pages to *Ancestor Metadata* in order to correctly indicate the multiple levels in the hierarchy. Additionally reordered the ancestor metadata based on the position of the ancestor in the hierarchy (previously, it was displayed in alphabetical order).  HPCDATAMGM-1457: Added 2 new attributes - *data\_owner* and *data\_curator* to the metadata catalog list. These will now be returned in the Metadata Catalog REST API response if they exist in the PI or Project level collections of the requested base path.  HPCDATAMGM-1442: Fixed issue of the error stack trace appearing in the JSON file returned in the REST error response.  **Operational/Performance Improvements:**  HPCDATAMGM-1450: Increased the frequency of the scheduler that processes the asynchronous Bulk Data Object Registration tasks from once a minute to every 20 seconds.  ==============================================================  **4.0 Bug Reports and Support**  ==============================================================  For issues, questions or suggestions, contact [ncidatavault@nih.gov](mailto:ncidatavault@nih.gov).  ==============================================================  **5.0 Documentation**  ==============================================================  For instructions on how to use the Web User Interface or Command Line Utilities (CLU), visit <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>.  For details on the REST API, refer to the API Specification located at  <https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx>.  ==============================================================  **6.0 Resources**  ==============================================================  The following URLs access web pages relevant to HPC DME.  DME User Guide  <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>  DME GitHub Home Page  <https://github.com/CBIIT/HPC_DME_APIs>  DME Agile JIRA Board Home Page:  <https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=244>  iRODS Open Source Data Management Software home page:  <https://irods.org/> |
| Globus:  <https://www.globus.org> |