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

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| Release 2.4.0: January 26, 2020  ==============================================================  **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, 2020  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1411:Enhanced the Bulk Data Files Registration API to enable direct asynchronous upload of files and directories from a file system mounted on the DME server to an NFS archive. Previously, bulk data files registration could be performed only to an S3 Object Store. For details on the Bulk Data Files Registration API, refer to section 5.35 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1399: Enhanced the Register Data File API to enable direct (single-hop) asynchronous upload of an individual file from a file system mounted on the DME server to an NFS archive. Previously only 2 hop, synchronous upload was supported for registering a file to an NFS archive irrespective of its location. For details on the Register Data File API, refer to section 5.30 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1407: Added the ability to configure a metadata attribute as conditional, based on the presence of another attribute or that attribute’s value. This provides flexibility to link attributes based on the collection type.  HPCDATAMGM-1408: Added the ability for a Group Admin to assign the Group Admin role to another user who belongs to the same DOC. The Group Admins will now be able to edit a user account in the DME Web Application to change the role. For details, see [Updating a User via the GUI](https://wiki.nci.nih.gov/x/bAnTGg).  **Bug Fixes/Documentation:**  HPCDAMAMGM-1404: Fixed the issue of users being unable to execute the dry run option in the DME Web Application while performing Bulk Registration from an S3 bucket.  HPCDATAMGM-1409: Fixed issue of restart of failed downloads creating a new directory with full path on the destination location, resulting in a ‘directory already exists’ error message. For details on how to retry a failed download, refer to [Retrying a Failed Globus Download](https://wiki.nci.nih.gov/x/y4tbG)  HPCDAMAMGM-1410: Fixed issue with users being unable to extract subset of files using filters from an archive file ( tar, zip, or tgz) whose size exceeds the sync download limit. For details on extracting files from an archive file, refer to [Using dm\_download\_dataobject](https://wiki.nci.nih.gov/x/owRlGQ).  HPCDATAMGM-1411: Updated the [Registering Directory Contents via the CLU](https://wiki.nci.nih.gov/x/-xpGFw) section of the DME User Guide to include examples for the include and exclude files.  **Operational/Performance Improvements:**  HPCDATAMGM-1398: Fixed issue of the Globus task being cancelled without retries when intermittent errors caused by network or connection issues are encountered. A configurable list of errors to exclude from cancellation has now been created, and this will be updated as new intermittent error types are detected.  HPCDATAMGM-1402: Optimized the time required to open the Profile Page. The loading time has been reduced from 20 secs to less than 7 secs.  ==============================================================  **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> |