**DME 1.24.0 Release Notes**

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| Version: 1.24.0  Date: April 1, 2020  ==============================================================  **Contents**  ==============================================================  1.0 DME Introduction  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 Introduction**  ==============================================================  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 collections within it. A collection can be identified by a custom collection type such as Project, Study, Sample, and so on, the default being 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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM-1265,1274: Added REST API to enable multi-part upload of large files. For details, refer to section ?? of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx). HPCDTAMGM-1267: Modified the *dm\_register\_directory* CLU command to perform multi-part upload for files larger than the user configurable limit. For details on using this command, refer to [Registering Directory Contents from Your File System via the CLU](https://wiki.nci.nih.gov/display/DMEdoc/Registering+Directory+Contents+from+Your+File+System+via+the+CLU) page on the wiki User Guide. HPCDATAMGM-1276: Added new Get User Groups REST API to return the list of Groups the user belongs to. For details, refer to section 5.8 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1269, 1271: Added the ability to decrypt and display user encrypted metadata on the DME Web application in the detailed view and search results. This is part of the effort underway to manage PII metadata encrypted outside of DME.  HPCDATAMGM-1245: Added the ability for group administrators to search for a user by DOC in the DME web application. The Manage User page has been modified for this purpose. For additional information, refer to [Finding a User via the GUI](https://wiki.nci.nih.gov/display/DMEdoc/Finding+a+User+via+the+GUI) page in the wiki User Guide.  **Misc. Updates/Bug Fixes:**  HPCDATAMGM-1273: Replaced the *dm\_register\_dataobject\_sync* CLU command with the *dm\_register\_dataobject\_presigned* CLU to always utilize the more efficient pre-signed URL download mechanism for file downloads. This also ensures that the download is not constrained by the memory available on the API server.  HPCDATAMGM-1273: Implemented a workaround for an issue with Cloudian that was causing delay in changing the status of uploaded files from URL\_GENERATED to ARCHIVED.  HPCDAMAMGM-1243: Fixed issue of an error message being displayed on the DME Web Application when group administrators create a new user, even though the user gets created correctly.  HPCDATAMGM-1172: Fixed issue with the Default Base Path dropdown displaying an empty list on the Create/Edit User page of the DME Web Application for group administrators.  HPCDATAMGM-1263: Fixed issue with the ‘Required’ placeholder not being displayed in the input fields for entering mandatory metadata values in the bulk registration screen of the DME Web Application.  HPCDATAMGM-1261: Removed error message for empty rows during validation of metadata while registering through the DME Web Application. These rows will now be ignored silently.  HPCDATAMGM-1275: Fixed issue with adding sub-collections through the Browse menu of the DME Web Application when the parent collection contains multiple collection types.    **Operational/Performance Improvements:**  HPCDATAMGM-1266: Optimized user initiated cancellation of download requests by also removing unprocessed transactions already submitted to Globus transfer queue.  HPCDATAMGM-1190: Added ability for system administrators to refresh data management configurations without requiring Tomcat restart.  HPCDATAMGM-1255: Added auditing of synchronous download transactions. This will be recorded in the HPC\_DOWNLOAD\_TASK\_RESULT table in the iRODS database.  ==============================================================  **4.0 Bug Reports and Support**  ==============================================================  For issues, questions or suggestions, contact 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>  Training related documentation and presentation is available at:  <https://github.com/CBIIT/HPC_DME_APIs/tree/master/doc/training>  ==============================================================  **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>  HPC DME GitHub Home Page  <https://github.com/CBIIT/HPC_DME_APIs>  NCI HPC 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/>  IBM Cleversafe Object Storage:  <https://www.ibm.com/cloud-computing/products/storage/object-storage/why-cos/> |
| Globus:  <https://www.globus.org> |