**DME 1.25.0 Release Notes**

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| Version: 1.25.0  Date: May 8, 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  v1.25.0 – May 8, 2020  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM-939: Added a new command line utility to enable users to recursively download a collection to a directory synchronously. For details refer to [Downloading a Collection to Your File System via the CLU](https://wiki.nci.nih.gov/x/tIWqGQ)    HPCDATAMGM-1242, 1287, 1288: Added the ability to optionally send notification to the user when an account is setup for them in DME. This is supported through the REST API, CLU command and the Web Application as described below:   * REST API: The JSON input file for the Enroll user command will have a parameter n*otifyUser* which if set to true, will send the notification to the user. Default value is false. For details, refer to section 5.5 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx). * CLU command: The JSON input file for the dm\_register\_user CLU command will have a parameter *notifyUser* which if set to true will send the notification to the user. Default value is false. For details, refer to [Registering a User via the CLU](https://wiki.nci.nih.gov/display/DMEdoc/Registering+a+User+via+the+CLU) in the User Guide. * Web Application: The Create User GUI in the Admin menu now has a checkbox option to indicate whether the user should be notified. Default is unchecked i.e. no notification will be sent. For details, refer to [Adding a User via the GUI](https://wiki.nci.nih.gov/display/DMEdoc/Adding+a+User+via+the+GUI) in the User Guide.     HPCDATAMGM-1279: Added new system metadata data\_transfer\_method to a file to indicate the upload method (i.e. Globus, S3, Sync upload, Pre-signed single-part, Pre-signed multi-part). This will be provided for new uploads going forward.  HPCDATAMGM-1227: For metadata attributes with pre-defined, discrete values, display a dropdown list instead of a free-form textfield for editing that metadata.  HPCDATAMGM-1222: Display only valid file types (presently xlsx only) in the File Browse Dialog for selecting the metadata input file during registration on the Register Bulk Data page.  **Misc. Updates/Bug Fixes:**  HPCDATAMGM-1287: Restricted access to Reports menu for system administrators and group administrators only.  HPCDATAMGM-1273: Fixed error during file registration using dm\_register\_directory when the file is uploaded using multi-part upload with 10,000 parts.  HPCDATAMGM-1283: Fixed issue with user being unable to add files to a collection to which he/she has write permission only.  HPCDAMAMGM-1233: The Clear button on the Manage User page of the Admin menu in the DME Web Application does not clear the user ID, it only clears the first name and last name.  HPCDATAMGM-1280: Set the root directory at the Globus endpoint as the default destination while downloading data to a Globus endpoint through the search results. This is to prevent an error if the user does not explicitly select a directory.  HPCDATAMGM-1036, 1221, 1236, 1240, 1250: Cleaned up the error and result messages in the dm\_register\_directory and dm\_query\_dataobject CLU commands. Converted the error codes in dm\_register\_directory into meaningful text values.  HPCDATAMGM-1235, 1251, 1247: Fixed incorrect error message while downloading data objects and collections on the DME Web Application.  HPCDATAMGM-1231, 1235: Fixed incorrect error messages while creating, updating or moving collections through the DME Web Application and CLU.  HPCDATAMGM-1228: Made the search results response consistent across DME Web Application to always indicate ‘No Matching Results’ if no data is returned in the search.  HPCDATAMGM-1219, 1230, 1248: Fixed error messages during bookmark creation through CLU and the DME Web Application.    **Operational/Performance Improvements:**  HPCDTAMGM-1281: Make the upload threshold and part size configurable for multipart upload so that they can be fined tuned for optimal performance.  HPCDATAMGM-1182: Added the new *data\_transfer\_method* attribute to the r\_report\_registered\_by\_audit materialized upload view used to audit upload transactions. This attribute captures the mechanism through which the file was uploaded.  HPCDATAMGM-1285: Added auditing of pre-signed URL 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> |