**DME 1.22.0 Release Notes**

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| Version: 1.22.0  Date: February 6, 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 large 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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM-1196, 1199: Enhanced the Register Data Object and Bulk Data Object Registration REST APIs to add support for registering links to a single file or a list of files.  This will enable multiple groups to specify different hierarchies for the same dataset without requiring duplication of data. For details, refer to section 5.29 and 5.31 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).    HPCDATAMGM-1197: Added the ability to register links to a single file or a list of files selected from the search results in the web appplication. For details, refer to the [Registering a Link via the GUI](https://wiki.nci.nih.gov/display/DMEdoc/Creating+a+Link+via+the+GUI) page.  HCDATAMGM-1198: Enhanced the Delete Data Object REST API to add support for deleting a link to a data object. The underlying file will not be deleted. For details, refer to section 5.46 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1207: Improved error handling in the dm\_register\_directory CLI command by adding internal retries when a failure occurs. These retries are performed automatically and are therefore transparent to the user.  HPCDATAMGM-1206: Enhanced the dm\_register\_directory command to accept symbolic links for the source paths.  HPCDATAMGM-1208: Enhanced the search capability in the web application to provide users with the option to exclude the parent metadata from being searched. This prevents the collection or objects beneath the specified level from being included in the search results. For details, refer to the [Searching for Data via the GUI](https://wiki.nci.nih.gov/display/DMEdoc/Searching+for+Data+via+the+GUI)  HPCDATAMGM-1194: Added a new REST API to enable users to proactively cancel their collection download request. For details, refer to section 5.41 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  **Misc. Updates/Bug Fixes:**  HPCDAMAMGM-1204: Updated the presentation format of the size attribute in the Data Object Detailed View page to display it in human readable form as KB, GB or TB (depending on the value) instead of as just a number.  HPCDATAMGM-1213: Fixed the issue of the dm\_register\_presigned\_url CLI command adding Content-Disposition header to the body of the file being uploaded.  HPCDATAMGM-1202: Fixed the issue of the dm\_delete\_collection CLI command providing an incorrect count of files to delete in the confirmation message when the collection contains sub-collection.    **Operational/Performance Improvements:**  HPCDATAMGM-1211: Modified the DME materialized view refresh process to eliminate performance impact to user queries (causing internal server error in the web application GUI).    HPCDATAMGM-1189: Populated endpoint name for retrospective data from asynchronous downloads.  ==============================================================  **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> |