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

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| Release 2.3.0: December 29, 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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1372: Enhanced the Data File Details and Collection Details screens in the DME Web Application to include a new column *Collection Type* in the Parent Metadata table, in order to provide information on the parent/ancestor that the metadata was inherited from. This eliminates confusion when two or more levels in a data hierarchy contain attributes with the same name.  HPCDATAMGM-1376:Redesigned the Search Results table in the DME Web Application to display search results using standard page scrolling, thus enabling more records to be displayed for larger screens. This table was previously displayed inside a fixed size scrolling pane, as a result of which only 9 rows were visible at a time irrespective of the screen size.  HPCDATAMGM-1405: Added the ability to the set GROUP\_ADMIN role through the DME Web Application. Previously, only USER role could be set.  HPCDATAMGM-1389: Reformatted the layout of the screens on the DME Web application to increase the usable real-estate. This includes reduction in header and font size.  **Bug Fixes/Documentation:**  HPCDAMAMGM-1368: Fixed issue with the GUI using an expired token sometimes, as a result of which users were not able to access objects or collection after a period of time. The token is now renewed if it expires before the Tomcat inactive session timeout, or when the user is re-authenticated via NIH login after session expiration.  HPCDATAMGM-1374: Fixed issue of the Register Collection, Register Data File, and Register Bulk screen on the DME Web Application displaying “Folder” by default for the *Collection Type* field, even though it is not always a valid collection type. The Collection Type field will now be blank by default, and the user will need to explicitly select it from the field dropdown so that an invalid type is not used.  HPCDATAMGM-1392: Fixed error while adding data files to a collection through the DME Web Application when the data hierarchy contains more than one collection type at the same level.  HPCDAMAMGM-1395: Fixed issue with the Display All Tasks option on the Download Tasks screen of the DME Web Application showing an empty list if there is a single file asynchronous download in progress, due to an exception being thrown while accessing this transaction.  HPCDATAMGM-1385: Reworked the [Downloading Data via the GUI](https://wiki.nci.nih.gov/x/_QuKFg) and [Registering Data via the GUI](https://wiki.nci.nih.gov/x/aQmKFg) sections of the DME User Guide to make it easier to locate functionality by source or destination type (File System, Globus endpoint, AWS S3, or Google Drive).  **Operational/Performance Improvements:**  HPCDATAMGM-1397: Reworked Globus transaction prioritization to execute downloads or registrations in round-robin fashion for different DOCs. This ensure that Globus queues setup for external applications like MoDaC are not starved during the processing of large volume requests from DME users.  ==============================================================  **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> |