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

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| **Release 2.23.0: August 30, 2022**  ==============================================================  **Contents**  ==============================================================   1. DME Overview 2. Release History 3. New Features and Updates 4. Important Notes 5. Bug Reports and Support 6. Documentation 7. References   ============================================================== 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).  ============================================================== 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, 2021  v2.5.0 - February 25, 2021  v2.6.0 - March 31, 2021  v2.7.0 - April 30, 2021  v2.8.0 - May 28, 2021  v2.9.0 - June 30, 2021  v2.10.0 - July 28, 2021  v2.11.0 - August 27, 2021  v2.12.0 - September 21, 2021  v2.13.0 - October 29, 2021  v2.14.0 - November 29, 2021  v2.15.0 - December 20, 2021  v2.16.0 - January 31, 2022  v2.17.0 - February 25, 2022  v2.18.0 - March 23, 2022  v2.19.0 - April 14, 2022  v2.20.0 - May 17, 2022  v2.21.0 - June 15, 2022  v2.22.0 - July 28, 2022  v2.23.0 - August 30, 2022  ============================================================== New Features and Updates ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1625: Enhanced the Save Search Criteria capability on the Data File Search Results page and the Collection Search Results page of the DME web application to also save the columns selected by the user in the search results. Previously, only the search query was saved. For details, refer to [Saving a Search via the GUI](https://wiki.nci.nih.gov/x/n4pNG).  HPCDATAMGM-1640: Enhanced the DME web application to display on the Browse dialog box of the Browse page, a drop-down list displaying all the Base Paths (Archives) that are accessible to the user. Users can now select a Base Path from this list or enter a collection path manually on the text field above the list as before. For details, refer to [Browsing for Data via the GUI](https://wiki.nci.nih.gov/x/TYpbG).  HPCDATAMGM-1611: Enhanced the Details panel of the Browse page of the DME web application to indicate alongside the path of the selected collection, the number of entries within that collection. This includes the count of the direct children (sub-collection and files) of the collection only. For details, refer to [Browsing for Data via the GUI](https://wiki.nci.nih.gov/x/TYpbG).  HPCDATAMGM-1648: Updated the DOC Report in the DME web application to display a new *Archive Summary* field. This field consists of the name of the storage provider, name of the storage bucket, and the total size of the data. For details, refer to [Viewing a DOC Report](https://wiki.nci.nih.gov/x/VwyYFg).  **Improvements and Bug Fixes:**  HPCDATAMGM-1562: Enhanced the Download Task and Download Task Details page of the DME web application to display for retried transactions, the identifier of the user who retried the failed transaction. For details on these pages, refer to [Viewing Download Status](https://wiki.nci.nih.gov/x/x4tbG) and [Viewing the Details of a Download Task](https://wiki.nci.nih.gov/x/moLrHQ).  HPCDATAMGM-1647: Enhanced the Search page of the DME web application to enable text entry with auto-complete on the *Level* and *Attribute Name* drop-down lists of additional criteria rows added by the user. Previously, auto complete was available only in the default criteria row displayed to the user. For details on performing searches, refer to [Searching for Data via the GUI](https://wiki.nci.nih.gov/x/aoJbG).  HPCDATAMGM-1634: Fixed issue with the Search User page of the DME web application not displaying the results when a user account with an apostrophe in the first name or last name is present.  HPCDATAMGM-1649: Fixed issue with the Browse page displaying the name of the parent collection in the object file name when there are multiple occurrences of the same string in the full path.  HPCDATAMGM-1629: Replaced the *data\_curator* field attached to the PI\_Lab (or equivalent) collection type with the new field *data\_generator* for all Archives (Base Paths).  All screens on the DME web application that displayed the data\_curator field will now display the new attribute. This is a mandatory field for archiving data to DME.  ============================================================== Important Notes ==============================================================  Release 2.22.0 updated the DME API server keystore.  If you are using command line utilities (CLU), before running any commands, update your public key at **utils/hpc-client/keystore/keystore-prod.jks** from GitHub master if you did not update it after Release 2.22.0.  ============================================================== Bug Reports and Support ==============================================================  For issues, questions or suggestions, contact [ncidatavault@nih.gov](mailto:ncidatavault@nih.gov).  ============================================================== 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>.  ============================================================== 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/> |
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| Globus:  <https://www.globus.org> |