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

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| **Release 2.21.0: June 15, 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  ============================================================== New Features and Updates ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1619, 1624: Added the ability for users to selectively export metadata columns from the search results table. Previously, all the metadata columns in the result set got exported. Also added the ability for users to optionally hide all metadata columns in the search results display with one click instead of removing them one by one. For details, refer to [Finding Data via the GUI](https://wiki.nci.nih.gov/x/SwduG).  HPCDATAMGM-1621: Separated the size column of grid-based DME reports into human-readable and machine-readable formats to enable sorting of the reports by size. For details on the format of the DME Reports, refer to [Viewing Reports](https://wiki.nci.nih.gov/x/gaI7Fg).  HPCDATAMGM-1618: Updated the DME User Report to display to Group Administrators, only users belonging to their Division/Office/Center (DOC) in the user dropdown list. Previously users from all DOCs were displayed. System Administrators will continue seeing all the users as before. This enables a much shorter list to be presented to Group administrators and provide access to information on an as-needed basis only. For details, refer to [Viewing a User Report](https://wiki.nci.nih.gov/x/SwduG)  HPCDATAMGM-1631, 1632: Added new REST APIs to migrate list of files and list of collections from one S3 storage provider to another. The new APIs will enable the migration of failed transactions to be performed more efficiently. For details, refer to sections 5.84 and 5.85 in the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  **Improvements and Bug Fixes:**  HPCDATAMGM-1627: Added the ability for the DME web application to return the 'state' parameters in the body of the response to authentication requests from third-party applications. These state parameters are supplied to DME in the re-direct URL of the request. This capability is being added to support new requirements for integration with the NIH Integrated Data Analysis Platform (NIDAP).  HPCDATAMGM-1579: Fixed error message in the *dm\_register\_collection* command line utility (CLU) to indicate that no metadata is present when an empty JSON structure was supplied. Previously it flagged presence of invalid metadata which confused users.  HPCDATAMGM-1639: Enhanced the search results table of the DME web application to make sorting case sensitive.  HPCDATAMGM-1637: Fixed issue with the parent collection UUID being displayed for a data object (instead of the object's own UUID) in the search results table of the DME web application.  HPCDATAMGM-1635: Added two system metadata attributes - *deep\_archive\_status* and *deep\_archive\_time* to track completion of data migration transactions. Previously, this was recorded only during data tiering.  **Operational/Performance Improvements:**  HPCDATAMGM-1636: Updated the data migration task to automatically restart the transactions in the queue when a system restart occurred.  ============================================================== Important Notes ==============================================================  Release 2.19.0 updated the DME API server keystore.  If you are using command line utilities (CLU), update your public key at **utils/hpc-client/keystore/keystore-prod.jks** from GitHub master before running any commands, if you did not update it in Release 2.19.0.  ============================================================== 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> |