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

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| **Release 2.31.0: April 24, 2023**  =============================================================  **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@nih.gov](mailto:NCIDataVault@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  v2.24.0 - September 29, 2022  v2.25.0 - October 27, 2022  v2.26.0 - November 17, 2022  v2.27.0 - December 19, 2022  v2.28.0 - January 30, 2023  v2.29.0 - February 27, 2023  v2.30.0 - March 28, 2023  v2.31.0 - April 24, 2023  ============================================================= New Features and Updates =============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1765: Enhanced the Subscribe Notification REST API to allow group administrators to subscribe a user to receive status change notifications for data transfers. Previously, a group administrator or another user could only subscribe for themselves. For details, refer to section 5.62 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1758: Enhanced the *Move Collection List/Data Object List* REST API to move the files and collections indicated by the API to the physical location corresponding to the new logical path by default. Previously, the API only changed the path, and did not physically move the files and collections. For details, refer to section 5.78 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  **Improvements and Bug Fixes:**  HPCDATAMGM-1751: Improved input data validation for bulk data registration from Globus to display errors on incorrect source destinations before the registration task begins. Previously the system performed the validation only after creating the registration task.  HPCDATAMGM-1764: Enhanced the Summary Report in the Reports menu of the DME web application to delineate the values for *Archive Summary* and *Total Number of Collections* in the Excel export with line breaks to improve the readability of the report.  HPCDATAMGM-1733: Fixed issue with the Retry Download task not displaying an error when the user has already deleted one or more files in the transaction.  HPCDATAMGM-1757: Fixed the issue of a UUID being appended at the end of the file name extension when the user moves a file logically using the Move Data File or Move Collection REST API and uploads a new file to the original path.  HPCDATAMGM-1753: Fixed issue with the AWS S3 Bulk Registration page in the DME web application displaying Null Pointer Exception instead of a user-friendly error message when a '/' (forward slash) is input as the source path.  HPCDATAMGM-1761: Updated the *dm\_register\_directory* command line utility to add the metadata attribute *object\_name* instead of *name* to a file when the user has not supplied a metadata file. This change is to aid in the standardization of metadata across the system.  **Operational Support/Performance Improvements:**  HPCDATAMGM-1703: Added a new column DATA\_SIZE to the HPC\_DATA\_MANAGEMENT\_AUDIT table to track the size of files and collections deleted for storage recovery purposes.  HPCDATAMGM-1732: Addressed security vulnerabilities on the open-source libraries flagged by GitHub by upgrading them to the recommended versions.  ============================================================= Important Notes =============================================================  The DME API server keystore was updated in Production in Release 2.28.0.  If you use CLU but have not used it after Release 2.28.0, update your public key at **utils/hpc-client/keystore/keystore-prod.jks** from GitHub master before running any commands.  ============================================================= 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> |