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

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| **Release 2.26.0: November 17, 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  v2.24.0 - September 29, 2022  v2.25.0 - October 27, 2022  v2.26.0 - November 17, 2022  ============================================================== New Features and Updates ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1657, 1680: Enhanced the Data Owner Report in the Reports page of the DME web application to display the *Archive Summary* field. This field consists of the name of the storage provider, the name of the storage bucket, and the size of the data within it. This report is available to all group administrators in DME. For details, refer to [Viewing a Data Owner Report](https://wiki.nci.nih.gov/x/p4UrHQ).  HPCDATAMGM-1668: Enhanced the Move REST API implementation to physically move the file or collection to the requested logical path. Previously only the logical path was changed. For details, refer to sections 5.28 and 5.57 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-1676: Enhanced the Register Data File REST API for pre-signed URL upload to enable upload of single part files to Glacier deep archive through pre-signed URL upload. Previously, single part files could be uploaded through pre-signed URL upload to Cloudian or AWS S3 buckets only.  HPCDATAMGM-1675: Improved the validation of the input fields of the Globus download request in the DME web application by displaying an error message when a URL is input instead of the folder path for the destination endpoint location. For details on downloading using Globus, refer to [Downloading to a Globus Endpoint via the GUI](https://wiki.nci.nih.gov/x/64oWGg).  **Operational/Performance Improvements:**  HPCDATAMGM-1677: Optimized the Register Data File REST API for pre-signed URL upload and the *dm\_register\_directory* command line utility to generate the corresponding pre-signed download URL only if configured on request for that Division/Office/Center (DOC). Previously, the pre-signed download URL was generated for all DOCs.  HPCDATAMGM-1678: Optimized the dataobject download task to check the cancellation status of the parent collection prior to download so that objects belonging to a cancelled collection are not picked up for download processing. Previously, the cancellation status of the individual data objects in the collection was checked which took time to be updated for large collections.  ============================================================== Important Notes ==============================================================  The [Building a Compound Query](https://wiki.nci.nih.gov/x/HAYXG) page of the DME User Guide has been updated per user request to add an example for a complex query containing nested compound queries.  The DME API server keystore was updated in production in Release 2.25.0.  If you are using CLU, please update your public key at **utils/hpc-client/keystore/keystore-prod.jks**  from GitHub master before running any commands if you have not used the CLU post Release 2.25.0.  ============================================================== 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> |