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

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| **Release 2.32.0: May 22, 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  v2.32.0 - May 22, 2023 New Features and Updates The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1612: Enhanced the *Data Hierarchy and Metadata Structure* chart displayed on the Browse page of the DME web application to show additional information, such as optional metadata and file-level metadata. Previously, the system displayed the mandatory metadata only.  HPCDATAMGM-1755: Enhanced the *dm\_register\_user* command and the Enroll User REST API to enable group administrators to subscribe the users to notifications. For details, refer to [Registering a User via the CLU](https://wiki.nci.nih.gov/x/xh5GFw) and section 5.5 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx), respectively.  HPCDATAMGM-1774: Enhanced the *dm\_get\_dataobject* command to optionally return the value of only a specific metadata attribute. Previously, the CLU returned all the metadata attributes associated with the object, and the user had to parse through the returned JSON result to find the metadata of interest. For details, refer to [Retrieving the Metadata of a Data File via the CLU](https://wiki.nci.nih.gov/x/4A1GFw).  HPCDATAMGM-1776, 1573: Added a new *Source Type* column in the Registration Task page and a new *Source Type* field in the Registration Task Details page of the DME web application to indicate the type of the upload endpoint. Also enhanced the REST APIs - *Get Bulk Registration Status* and *Get Registration Task Summary* to include a new *uploadMethod* field. For details, refer to sections 5.37 and 5.81 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx), respectively.  **Improvements and Bug Fixes:**  HPCDATAMGM-1766: Improved input data validation for bulk data registration from Globus to display errors about permissions not being set on the source directory before the registration task begins. Previously, the system performed this validation only after creating the registration task.  HPCDATAMGM-1741: Fixed issue with the *data\_transfer\_method* system metadata not being updated when a presigned URL upload request changed from single-part to multipart during retry. This issue appeared when the upload request was erroneously set to single-part initially due to a disk mounting problem.  HPCDATAMGM-1777: Fixed issue with the *Get Metadata Attributes* REST API giving an error when the user supplies the *levelLabel* query parameter. For details, refer to section 5.70 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  HPCDATAMGM-1719: Fixed issue with the File Details Panel in the Browse page of the DME web application not displaying in full length on the page in Firefox, requiring the use of scrollbars even when real estate is available. This issue did not exist in Chrome.  **Operational Support/Performance Improvements:**  HPCDATAMGM-1754: Added a configurable data size limit to all collection downloads. This limit is to ensure the optimal distribution of resources for all users.  HPCDATAMGM-1768: 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 2.31.0.  If you use CLU but have not used it after Release 2.31.0, 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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