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

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| **Release 2.29.0: February 27, 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  ============================================================= New Features and Updates =============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1737: Optimized the Get Data File API to optionally exclude parent and ancestor metadata of the requested file from the API response. An optional query parameter has been added for the purpose. This eliminates movement of unused data and improves API performance by reducing database access.  HPCDATAMGM-1721: Enhanced the non-grid reports in the DME web application to enable exporting displayed results to Microsoft Excel and copying the same to clipboard. For details, refer to [Filtering, Exporting, and Navigating Reports](https://wiki.nci.nih.gov/x/joUrHQ).  HPCDATAMGM-1729, 1730: Enhanced the Download Tasks and Upload Tasks pages of the DME web application to display by default to group administrators of a DOC, transaction requests from all users within that DOC. Previously only transaction requests of the logged in user were displayed by default, and the user had to click Display All to see all requests.  **Improvements and Bug Fixes:**  HPCDATAMGM-1687: Fixed issue with search results in all pages displaying only the columns for metadata available in the results on the first page, even though results on subsequent pages had more columns.  HPCDATAMGM-1704: Optimized the non-grid reports in the DME web application to retrieve the user, DOC, and basepath list only once instead of for each report.  HPCDATAMGM-1720: Eliminated grey-space above the footer of the Browse page in the DME web application to increase the application display area.  **Operational/Performance Improvements:**  HPCDATAMGM-1723, 1728: Optimized the iRODS calls for obtaining a data object and a list of data objects.  HPCDATAMGM-1734: Optimized collection metadata updates to check the user supplied metadata for delta and invoke the iRODS Write API only if there is a change to the metadata. Previously, all user requests to update collection metadata were passed on to iRODS.  HPCDATAMGM-1726: Provide SSL encryption for all data in transit during archival to Cloudian as per the security guidelines from CBIIT.  ============================================================= 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> |