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

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| **Release 2.20.0: May 18, 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  ============================================================== New Features and Updates ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Functional/GUI Enhancements:**  HPCDATAMGM-1608: Added a new *Data Owner Report* to the Report tab of the DME web application for system administrators to retrieve the storage consumed by each Division/Office/Center (DOC) along with the data owner and data curator information. Users can export the full report or selected columns in the report to a Microsoft Excel spreadsheet. For additional information, refer to [Viewing a Data Owner Report](https://wiki.nci.nih.gov/x/p4UrHQ) and [Filtering, Sorting, and Navigating Grid Reports](https://wiki.nci.nih.gov/x/joUrHQ).  HPCDATAMGM-1585: Enhanced the existing *Base Path Report* in the Report tab of the DME web application for system administrators to display information pertaining to all the base paths in a single report in a new grid format. Also added the ability to export the full report or selected columns in the report to a Microsoft Excel spreadsheet. For additional information, refer to [Viewing a Base Path Report](https://wiki.nci.nih.gov/x/XwyYFg) and [Filtering, Sorting, and Navigating Grid Reports](https://wiki.nci.nih.gov/x/joUrHQ).  HPCDATAMGM-1586: Enhanced the existing *DOC Report* in the Report tab of the DME web application for system administrators to display information pertaining to all the DOCs in a single report in a new grid format. Also added to ability to export the full report or selected columns in the report to a Microsoft Excel spreadsheet. For additional information, refer to [Viewing a DOC Report](https://wiki.nci.nih.gov/x/pYUrHQ) and [Filtering, Sorting, and Navigating Grid Reports](https://wiki.nci.nih.gov/x/joUrHQ).  HPCDATAMGM-1604: Enhanced the response of the *Get Collection Download Status* and *Get Collection List Download Status* APIs to provide the paths of the downloaded collections once they are completed. Previously, these APIs only provided the paths of the data objects contained in the downloaded collections. For details, refer to sections 5.46 and 5.52 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-1605: Updated the file size categorization in all the reports in the Report tab of the DME web application to align with the way users use the information. For information on the reports, refer to [Viewing Reports](https://wiki.nci.nih.gov/x/gaI7Fg).  HPCDATAMGM-1614: Updated all the reports in the Report tab of the DME web application to exclude from the computation of the total size and largest file size, all the files that users have soft deleted.  HPCDATAMGM-1606: Fixed the *Base Path* *Report* in the Report tab of the DME web application to generate the correct error when users generate the report without selecting the base path. Previously, the system displayed a report with all values set to zero. HPCDATAMGM-1443: Fixed issue with the *Download Data Object List* and *Download Collection List* APIs not giving out the list of all the objects or collections that failed as part of the response. Previously, only the path of first failure was provided in the response. HPCDATAMGM-1616: Fixed issue with the system returning a proxy error when users attempted to export large result sets from the detailed search results page.  HPCDATAMGM-1603: Fixed issue with the email notification for user initiated download task cancellation showing 'Failed' in the subject line. This has now been corrected to 'Canceled'.  HPCDATAMGM-1599: Revised CLU sections pertaining to data registration and download in the DME user guide to clarify content better.  **Operational/Performance Improvements:**  HPCDATAMGM-1570: Optimized the DME task that provides the status of a collection download to retrieve all its data objects transactions in one query. This change reduced the number of round trips to the database through the network. Previously, this task retrieved each data object transaction separately.  HPCDATAMGM-1590: Enhanced the DME download task to perform internal retries of the file download from Cloudian when timeout on the DME server caused the download failure.  ============================================================== 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> |