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

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| **Release 2.41.0: February 28, 2024** 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 with 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  v2.33.0 - June 30, 2023  v2.34.0 - July 29, 2023  v2.35.0 - August 30, 2023  v2.36.0 - September 29, 2023  v2.37.0 - October 27, 2023  v2.38.0 - November 17, 2023  v2.39.0 - December 28, 2023  v2.40.0 – January 30, 2024  v2.41.0 - February 28, 2024 New Features and Updates The following features, enhancements, and bug fixes were incorporated in this Release:  **New Features/GUI Enhancements:**  HPCDATAMGM-1874, 1875: Redesigned the Download Tasks dashboard of the DME web application to provide page information (such as page size, current page, and total records) and navigation buttons at the top of the download summary table. Previously this panel was displayed at the bottom of the summary table only, requiring users to scroll down to navigate across pages or access page information.  HPCDATAMGM-1888, 1890: Redesigned the Registration Tasks dashboard of the DME web application to provide page information and navigation buttons at the top of the registration summary table. Previously this panel was displayed at the bottom of the summary table only.  **Improvements and Bug Fixes:**  HPCDATAMGM-1895: Hyperlinked the download path in the Download Tasks dashboard of the DME web application to enable users to access the details of the specified file or collection easily.  HPCDATAMGM-1873: Updated the Download Tasks Details of the DME web application to show the Staging in Progress sub-section until the system has completed staging all the transactions. Previously, this section was shown only while the system was staging the transactions.  HPCDATAMGM-1885: Updated the Download Tasks dashboard and the Registration Tasks dashboard of the DME web application to display the time on the *Created On* and *Completed On* columns in 24-hour format instead of 12-hour format.  HPCDATAMGM-1893: Removed command information from error messages displayed on the Download Task page of the DME web application for failed downloads to Aspera endpoints.  HPCDATAMGM-1887: Fixed the issue with the Source Path column of the Registration Tasks dashboard being empty when the *Display All Tasks* switch is off to display only the transactions initiated by the user.  HPCDATAMGM-1898: Fixed issue with the *Target Path* field of the Collection Download Notification email displaying the destination endpoint UUID instead of the endpoint name for retried Globus downloads.  **Operational Support/Performance Improvements:**  HPCDATAMGM-1886: Enhanced the error messages generated for Globus download failures by leveraging an additional Globus API to obtain Globus failure details. Important Notes The DME API server keystore was updated in release 2.40.0.  If you use CLU but have not used it since Release 2.40.0, 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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