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

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| **Release 3.17.0: August 25, 2025** Contents  * DME Overview * Release History * New Features and Updates * Important Notes * Bug Reports and Support * Documentation * 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  v3.0.0 – March 27, 2024  v3.1.0 – April 29, 2024  v3.2.0 – May 31, 2024  v3.3.0 – June 27, 2024  v3.4.0 – July 30, 2024  v3.5.0 – August 27, 2024  v3.7.0 – October 30, 2024  v3.8.0 – November 26, 2024  v3.9.0 – December 26, 2024  v3.10.0 – January 30, 2025  v3.11.0 – February 27, 2025  v3.12.0 – March 28, 2025  v3.13.0 – April 29, 2025  v3.14.0 – May 30, 2025  v3.15.0 – June 30, 2025  v3.16.0 – July 24, 2025  v3.17.0 – August 25, 2025 New Features and Updates The following features, enhancements, and bug fixes were incorporated in this Release.    **New Features, Improvements, and Fixes:**  HPCDATAMGM-2113: Enhance the Collection Download Task Details screen of the DME web application to display completed downloads of individual data objects while staging of other objects is ongoing. Previously, DME began displaying completed downloads only after staging all the data.  HPCDATAMGM-2112: Enhanced the Download Task Board to change the status of a collection from RECEIVED to IN-PROGRESS when data begins downloading, even if staging is not completed. Previously, the status transitioned to IN-PROGRESS only after all the data had been fully staged.  HPCDATAMGM-2085: Enhanced the existing Data Management Model API  to include the remote file system path associated with a DME base path in the response if available. This new field was added to support the auto-tiering requirements.  HPCDATAMGM-2121: Fixed the NULL/EMPTY registration error generated by the dm\_register\_dataobject CLU command when the user invokes it without a file path to update the metadata only.  HPCDATAMGM-2124: Fixed the issue of the ‘Message’ field in the Collection Download Task Details page showing an incorrect total number of data objects in the collection when the user retries the task.  **Operations and System Performance:**   HPCDATAMGM-2122: Fixed the race condition occurring while staging data objects during a collection download when multiple servers attempt to update the same download task in the database.  HPCDATAMGM-2102, 2014, 2119: Upgraded open-source Spring framework libraries and Apache libraries used in DME to address the security vulnerabilities reported by GitHub. Important Notes  * The Swagger API Specification for the DME REST APIs was published in Release 3.5.0. You can access the specification from the *API Specification* menu item in the Help menu on the header of all pages in the DME web application. * If you use the DME command line utilities (CLU), please note the following:   + The CLU was upgraded in Release 3.7.0 to run on Java 21. To obtain the new jar file, perform a git pull. If you run the commands on Helix/Biowulf, execute module load java/21.0.2before running them.   + The DME API server keystore was updated in release 3.15.0.  To obtain the new public key, update **utils/hpc-client/keystore/keystore-prod.jks** from GitHub master.  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>.  You can access the Swagger API Specification for the DME REST APIs through the *API Specification* menu item on the Help menu of the DME Web Application. 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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