**HPC DME 1.17.0 Release Notes**

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| Version: 1.17.0  Date: September 13, 2019  ==============================================================  **Contents**  ==============================================================  1.0 HPC DME Introduction  2.0 Release History  3.0 New Features and Updates  4.0 Bug Reports and Support  5.0 Documentation  6.0 References  ==============================================================  **1.0 HPC DME Introduction**  ==============================================================  The NCI Data Management Environment (DME) offers open-ended storage and management of large 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 collections within it. A collection can be identified by a custom collection type such as Project, Study, Sample, and so on, the default being 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).  ==============================================================  **2.0 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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM- 1118: Added a new REST API to download multiple collections from DME to a Globus endpoint or S3 bucket. For additional information, refer to section 5.41 of the DME API specification at <https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx>.  HPCDATAMGM-1127: Extended the Download Data Object API to selectively extract one or more files from an archived tar (for synchronous download only). Supports pattern matching to enable extraction of multiple files. For additional information, refer section 5.33 of the DME API specification.  HPCDATAMGM-1028: Extended the Data Management Model API to be able to return the JSON model for a single basePath so that group admins and collection owners can structure their datasets accordingly while uploading. For additional information, refer to section 5.56 of the DME API specification.  HPCDATAMGM-1137: Extended the Get Data Object and Get Collection APIs to also retrieve the permission of the requesting user. An optional query parameter ‘includeAcl’ has been provided for the same. By default, the permission will not be retrieved. For additional information, refer to sections 5.16 and 5.27 respectively of the DME API Specification.  HPCDATAMGM-1077, 1123: Enhanced the CLU commands to allow user to specify custom names for the response header and message files. The internally generated names can now be overridden to eliminate race condition when registering files in a swarm. For additional information on using CLU commands to register data, refer to the Wiki User Guide at [Registering Data via the CLU](https://wiki.nci.nih.gov/display/DMEdoc/Registering+Data+via+the+CLU).  HPCDATAMGM-1125: Enhanced the Search Results page in the web application to enable selection of multiple collections for downloading from the archive. The collections can then be downloaded as a single batch to a Globus endpoint. For additional information refer to the Wiki User Guide at [Downloading Multiple Collections via the GUI](https://wiki.nci.nih.gov/x/lQBDG).  HPCDATAMGM-1126: Updated the Collection/Object Registration screen in the web application to also display description of mandatory metadata for the selected collection type. For additional information, refer to the Wiki User Guide at:   * [Creating an Empty Collection via the GUI](https://wiki.nci.nih.gov/x/ZqM7Fg) * [Registering a Data File via the GUI](https://wiki.nci.nih.gov/x/yQmKFg)   .  HPCDATAMGM-1124: Added date comparison operators to the operators list dropdown in the search criteria page of the web application to enable users to search based on date. Two operators – ‘Date greater than or equal to’ and Date less than or equal to’ have been added. For additional information, refer to the Wiki User Guide at [Searching for Data via the GUI](https://wiki.nci.nih.gov/x/rwOYFg).  HPCDATAMGM-1014: Added a *more than* (>) operator to the operator list dropdown in the search criteria page of the web application.  **Bug Fixes:**  HPCDATAMGM-1136: While checking URL expiry and archival for files uploaded through a pre-signed URL, the metadata for a file gets deleted if an exception is thrown during the check, even if the file has already been uploaded.  HPCDATAMGM-1120: Clicking the Cancel button on the Edit Metadata page in the web application (after navigating to it from Detailed View) throws an error.  HPCDATAMGM-1132: A dummy search row gets displayed on the My Searches section of the Dashboard screen if there are no named searches (The My Searches section will now be blank if there are no named searches).  HPCDATAMGM-1130: On the Reports page, the ‘Invalid date range’ alert for a previous incorrectly formatted date re-appears when the user tries to re-generate the report after correcting the date.  HPCDATAMGM-1133: On the Create User page, the error message that appears if the username already exists re-appears sometimes even for a different, non-existent user.  **Operational/Performance Improvements:**  HPCDATAMGM-1129: Improved the time to access the Detailed View for collections and data objects by combining API calls to reduce the number of server round trips.    ==============================================================  **4.0 Bug Reports and Support**  ==============================================================  For issues, questions or suggestions, contact ncidatavault@nih.gov  ==============================================================  **5.0 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>  Training related documentation and presentation is available at:  <https://github.com/CBIIT/HPC_DME_APIs/tree/master/doc/training>  ==============================================================  **6.0 Resources**  ==============================================================  The following URLs access web pages relevant to HPC DME.  DME User Guide  <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>  HPC DME GitHub Home Page  <https://github.com/CBIIT/HPC_DME_APIs>  NCI HPC 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/>  IBM Cleversafe Object Storage:  <https://www.ibm.com/cloud-computing/products/storage/object-storage/why-cos/> |
| Globus:  <https://www.globus.org> |