**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 provided capabilities for storing, managing, transferring and sharing data across different systems securely and efficiently. It eliminates the need to maintain redundant copies of data and provides the ability to annotate, retrieve, transfer and share datasets for further research, analysis, and collaboration.  Data are stored as objects, which are organized into collections (folders). A collection might have one or more sub-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 stores and associates user defined metadata with any registered data at different levels of the data life cycle, enabling the user to easily locate the data through enhanced search capabilities and download them from the archive. A Division/Office/Center (DOC) can define its own metadata structure and data hierarchy rules, and grant permission to users on a need-to-know basis.  ==============================================================  **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 the Archive to a Globus endpoint or S3 bucket. For additional information, please 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 File API to selectively extract one or more files from an archived tar (for synchronous download only). For additional information, please refer section 5.33 of the DME API specification.  HPCDATAMGM-1028: Extended the Data Management Model API to be able to return the model for a single basePath so that group admins and collection owners can structure the datasets accordingly while uploading. For additional information, please refer to the 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, please refer to sections 5.16 and 5.27 respectively of the DME API Specification.  HPCDATAMGM-1077, 1123: Added the ability for the user to specify the names of the response header and response message files (to override the internally generated names) in the CLU commands in order to enable them to be run in a swarm.  HPCDATAMGM-1125: Added ability to download multiple collections from the Archive to a Globus endpoint through the web application. The collections can be selected from the Search Results page. For additional information please refer to the Wiki User Guide at <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>  HPCDATAMGM-1126: Updated the Collection/Object Registration screen in the web application to also display metadata description of all the mandatory metadata for the selected collection type. For additional information, please refer to the Wiki User Guide.  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, please refer to the Wiki User Guide.  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 performing upload verification for data uploaded through a pre-signed URL, the metadata for that files gets deleted if an exception is thrown during verification, even if the file has already been uploaded.  HPCDATAMGM-1120: Clicking the Cancel button after navigating to the Edit Metadata page from the Detailed View of an object or collection throws an error.  HPCDATAMGM-1132: Removed the dummy named search from the My Searches section of the Dashboard screen. 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 username already exists re-appears even for a different, non-existent user.  **Operational/Performance Improvements:**  HPCDATAMGM-1129: Reduce the time to access the Detailed View for collections and data objects by combining the API calls to reduce the number of server round trips.    ==============================================================  **4.0 Bug Reports and Support**  ==============================================================  For issues, questions or suggestions, please email ncidatavault@nih.gov  ==============================================================  **5.0 Documentation**  ==============================================================  For instructions on how to use the Web User Interface or Command Line Utilities (CLU), please visit <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>  For details on the REST API, please 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> |