**DME 1.27.0 Release Notes**

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| Version: 1.27.0  Date: July 8, 2020  ==============================================================  **Contents**  ==============================================================  1.0 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 DME Introduction**  ==============================================================  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 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  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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM-1312: Added the ability to assign batch permissions for a list of files or collections through the DME web application. Permissions can be configured for multiple users on files or collections selected from the search results screen. If permission already exists for a specific user on a selected file or collection, then that will be overwritten. For details see [Managing Permissions via the GUI](https://tinyurl.com/y7rjv435).  HPCDATAMGM-1311:Added a new CLU *dm\_register\_dataobject\_multipart* to efficiently archive larger files (> 2GB) using pre-signed URL. The file is uploaded as a set of parts transmitted in parallel internal threads, thus enabling higher throughput.  HPCDATAMGM-1328: Expanded the *dm\_download\_dataobject* CLU (for synchronous download) to optionally extract and download a single file or set of files from an archived TAR, ZIP or TGZ file. An include pattern can be specified to filter the files to download.  HPCDATAMGM-1307: Added the ability to dynamically determine the proxy IP address (if applicable) while executing a CLU command. The hpc.server.proxy.url and hpc.server.proxy.port properties will be used if specified in the *hpcdme.properties* configuratio*n* file, else the proxy address and port will be determined for the server on which the CLU is being executed.  **Misc. Updates/Bug Fixes:**    HPCDATAMGM-1326: Fixed issue of an error message being displayed on the edit metadata screen of the DME web application when the user attempts to add an attribute that is configured as optional in the metadata validation rules but does not currently exist for that collection.  HPCDATAMGM-1302: Fixed issue with *dm\_register\_directory* CLU setting Results Code as ‘Success’ and Error Count as ‘0’ under certain conditions even when one or more files failed to upload.  HPCDATAMGM-1327: Added the missing 'Required' placeholder in the text entry fields for mandatory metadata on the edit screen for collections and data objects. It is presently displayed only on the registration screen during collection or data object creation.  HPCDATAMGM-1316: Added display of source path on the download page of the DME web application for all asynchronous file and collection downloads.  HPCDATAMGM-1317: For asynchronous file downloads through the DME web application, the *Globus (Destination) Path* or the *S3 (Destination) Path* field will be pre-filled for the user.  HPCDAMAMGM-1308: Removed incorrect User Registered notification from the Subscribe notifications page, since this is optionally set by the group administrators through the Manage User page during account creation.  HPCDATAMGM-1310: Removed the ‘owner’ name display under the path in the Detailed view screen, since this points to the service account and not the user who owns or uploaded the file.    ==============================================================  **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> |