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

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| Release 2.2.0: October 16, 2020  ==============================================================  **Contents**  ==============================================================  1.0 DME Overview  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 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 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 collection type 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  v2.0.0 – August 27, 2020  v2.1.0 – September 24, 2020  v2.2.0 – October 16, 2020  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this Release:  **Enhancements:**  HPCDATAMGM-1367: Enhanced the Register Data Object, Register Collection and Bulk Data File Registration APIs to optionally update the parent collection metadata during collection registration. (Presently, the parent collection can be created, but the metadata of an existing parent cannot be updated). For details, refer to sections 5.19, 5.30, and 5.35 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx). For details on the corresponding CLUs, refer to [Registering Data Via the CLU](https://wiki.nci.nih.gov/x/HAMFGg).  HPCDATAMGM-1325: Enhanced the metadata export capability in the DME Web Application to enable metadata export of all the data objects or collections displayed on the Search Results screen. Presently, only metadata of data objects or collections in the current page can be exported. For details on the metadata export capability, refer to [Exporting Search Results via the GUI](https://wiki.nci.nih.gov/x/lopNG)  HPCDATAMGM-1359:Re-designed the layout of the Register Bulk page of the DME Web Application for clarity, and to better align with the order of user actions**.** For details on performing bulk registration through the DME Web Application, refer to [Registering Data in Bulk via the GUI](https://wiki.nci.nih.gov/x/_KPmFg).  **Misc. Updates/Bug Fixes:**  HPCDAMAMGM-1368: Enhanced the DME web application to display help icons containing the metadata description for all mandatory metadata on the Edit Metadata screen. This is presently displayed only while adding new metadata during collection or data object registration. For details on editing metadata through the DME Web Application, refer to [Updating Metadata via the GUI](https://wiki.nci.nih.gov/x/5wuKFg).  HPCDATAMGM-958: Removed the system properties from the *hpcdme.properties* file. Users using the CLU interface will no longer be required to modify this file for every release. For details on the customizable properties contained in this file, refer to [Getting Started with DME CLU](https://wiki.nci.nih.gov/x/go7RFg)  HPCDAMGM-1371: Updated the Register Collection screen in the DME Web Application to not require the collection type to be specified while registering a collection from the Browse screen if only one type of collection is permitted. For details on how to register an empty collection from the Browse screen, refer to [Creating an Empty Collection via the GUI](https://wiki.nci.nih.gov/x/3IRbG).  HPCDAMAMGM-1370: Made the look and feel of all secondary buttons uniform to easily differentiate them from the primary buttons and ensure consistency across the system.  HPCDATAMGM-1277, 1361: Updated help information in the DME Web Application and CLU interface.  **Operational/Performance Improvements:**  HPCDATAMGM-1332: Optimized error handling during collection download to terminate the download request if a credentials error is encountered. The download of all the remaining files in the collection are now cancelled.  HPCDATAMGM-1321*:* Updated Google Guava third party libraries used by the REST API services to address security vulnerabilities.  ==============================================================  **4.0 Bug Reports and Support**  ==============================================================  For issues, questions or suggestions, contact [ncidatavault@nih.gov](mailto: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>.  ==============================================================  **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>  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/> |
| Globus:  <https://www.globus.org> |