**HPC DME 1.16.0 Release Notes**

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| Version: 1.16.0  Date: August 21, 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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features, enhancements, and bug fixes have been incorporated in this release:  **Enhancements:**  HPCDATAMGM-843: Integrated NIH Login Services (formerly iTrust) for providing SSO capability in DME. Users will now be presented with the NIH login screen for logging into the DME Web Application.  HPCDATAMGM-1089: Expanded the Authenticate REST API to support SMSESSION cookie. This will enable SSO integration of third-party applications with DME.  HPCDATAMGM- 1091: Provided new endpoint in the Web App for 302 redirects to DME. This is in support of SSO integration of third-party GUI with DME.  HPCDATAMGM-1111: Added support to query metadata by date/timestamp in the search API. Four new operators have been added: TIMESTAMP\_LESS\_THAN, TIMESTAMP\_GREATER\_THAN, TIMESTAMP\_LESS\_OR\_EQUAL and TIMESTAMP\_GREATER\_OR\_EQUAL. For additional information, please refer to section 5.17 of the API specification located at <https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx>  HPCDATAMGM-1110: Segregated system metadata and user defined metadata in the Detailed View for objects and collections. This ensures that users do not need to scroll through all the system-generated metadata to review or edit their custom fields.    HPCDATAMGM-1027: Removed display of Select item prompt in Role dropdown in Crate User dialog if only one role is present.  HPCDATAMGM-1028: Remove display of Select item prompt in DOC dropdown in Create User dialog if only one DOC is present.  **Bug Fixes:**  HPCDATAMGM-1083: Fixed issue with the system dropdown menu (top right corner) not showing up in the Browse screen**.**  HPCDATAMGM-1108: Fixed third-party library security vulnerability reported by GitHub.  **Operational/Performance Improvements:**  HPCDATAMGM-1086: Fixed issue with the Detailed View access frequently returning a 500 Internal Server Error.  HPCDATAMGM-1105: Added ability to prioritize Globus transfer. This is a backend capability that will be accessible to the DME system administrators to prevent long-running transactions from blocking the queue.  HPCDATAMGM-1121: Reduced time to login to the web application through caching and just-in-time retrieval of config data.  HPCDATAMGM-1122: Reduced time to access the browse screen by optimizing access to the user’s bookmarks list.  ==============================================================  **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> |