**HPC DME 1.10.0 Release Notes**

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| Version: 1.10.0  Date: Dec 18, 2018  ==============================================================  **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  ==============================================================  **3.0 New Features and Updates**  ==============================================================  The following features enhancements and bug fixes have been incorporated in this release:  **Enhancements:**  **REST API:**  HPCDATAMGM-1044: Added the capability to transfer a file from the archive to an AWS S3 bucket. A new API (version 2) to download a file is now available. This provides the ability to synchronously download a file to the users machine, asynchronously download a file to an S3 bucket, or download to a Globus endpoint. For details, please refer to section 5.29 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  This does not include the ability to request a pre-signed download URL for synchronously downloading a file. A new API has been provided for this. For details, please refer to section 5.31 of the DME API Specification.  The current version to download a file is being deprecated and will be removed in a future release.  HPCDATAMGM-1045: Added the capability to transfer a collection from the archive to an AWS S3 bucket. A new API (version 2) to download a collection is now available. This provides the ability to asynchronously download a collection either to an S3 bucket or to a Globus endpoint. For details, please refer to section 5.33 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  The current version to download a collection (to a Globus endpoint) will be deprecated and will be removed in a future release.  HPCDATAMG-1046: Added the capability to transfer a list of objects from the archive to an AWS S3 bucket. A new API (version 2) to download a list of objects is now available. This provides the ability to asynchronously download a list of objects to either an S3 bucket or a Globus endpoint. For details, please refer to section 5.36 of the [DME API Specification](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_API_Specification.docx).  The current version to download a list of objects (to a Globus endpoint) is being deprecated and will be removed in a future release.  **CLI/CLU:**  HPCDATAMGM-1048: Added command line utility to transfer a file or collection from the archive to an S3 bucket. For details, please refer to section 7.11 of the [DME User Guide](https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_User_Guide.docx)  **Misc. updates:**  HPCDATAMGM-1037:  1. Updated the documentation link for Globus endpoint sharing to point to the wiki instead of the PDF. 2. Updated the link to select files from Globus for bulk upload to point to the new Globus site.    ==============================================================  **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, please visit <https://wiki.nci.nih.gov/display/DMEdoc/DME+User+Guide>  For the CLU command usage instructions, please refer to the DME User Guide located at  <https://github.com/CBIIT/HPC_DME_APIs/blob/master/doc/guides/HPC_User_Guide.docx>  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 (for Web Interface only presently)  <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/> |
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