**HPC DME 1.5.0 Release Notes**

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| Release Name: HPCDME-1.5.0  Version 1.5.0  December 11, 2017  ================================================================                              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 HPC DME, High Performance Computing Data Management Environment, is an adaptable and open ended data storage environment supporting storage and management of biomedical and informatics data, produced from various labs/systems. HPC DME provides capabilities for storing, managing, transferring and sharing data across different systems securely and efficiently.  Users can store data objects on HPC DME object archive, share and transfer their data such that they do not have to redistribute or maintain copies of the data on other systems. HPC DME stores and associates user defined metadata to any registered data at different levels of data life cycle, enabling the environment not only to help identify the data but also to enhance the search and download data files (from archive) capabilities.  ================================================================                        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  ================================================================                        3.0 New Features and Updates  ================================================================  This release had made several API, Web UI, Client Utility improvements and bug fixes.  **Web UI Features:**   * **Delete a Collection**: A collection can be deleted if it is empty. Only SYSTEM\_ADMIN and GROUP\_ADMIN users can do so. * **Bulk Register Data files from Globus:** Register multiple data files and folders asynchronously from a Globus Endpoint. Include or exclude criteria can be given to filter the folders to select specific files. * **Track Upload tasks:** Check status on upload tasks with summary information exposed for the overall task ID: Task Id#, Registration Completed indicator, when the Registration was created (Datetime stamp), and when the Registration was completed (DateTime stamp), and status report of each data files registered. * **User Profile**: Display self-profile details including assigned permissions of all base paths a user has access permission. * **Browse refresh**: Refresh individual browse nodes instead of refreshing entire tree   **CLI Utility:**   * **Improved bulk registration of local files**: Bulk registration from local file system uses pre-signed URL to directly upload data files to archive system. This multi-threaded command improves bulk data file registration process. Before command being committed, there is a user prompt for registration confirmation.   For 3 test runs, CLI 1.5 executed the operation in multi-threaded fashion in approximately: 3 min 53 sec using 2 threads 1 min 48 sec using 4 threads 1 min 3 sec using 8 threads  For 3 test runs, CLI 1.4 executed the operation in single-threaded fashion (no support for multi-threaded) in approximately: 3 min 16 sec 3 min 14 sec 3 min 15 sec   * **Process Metadata files**: Process metadata file (with extension .metadata.json) co-located with the folder (collection) and the files. There is also an option to update metadata for existing collections or files. * **Bulk registration from Globus**: Integrate with bulk registration API to bulk register files / folders from a Globus endpoint.   **API:**   * **Auditing:** Audit date file registration and metadata update in HPC DME database * **Attach metadata UUID to the object:** Attach metadata logical entity UUID and UserId to CleverSafe object store object property * **Upload requests:** Get upload requests submitted by the caller * **Generate Pre-Signed URL:** Register data file metadata with HPC DME and generate a pre-signed URL. This pre-signed URL can be used to upload the data file directly to Archive storage. This approach would bypass streaming data file through HPC DME API server. * **User permissions on a list of collections:** Get caller permissions on a list of collections   **Issues:**   * [HPCDATAMGM-822](https://tracker.nci.nih.gov/browse/HPCDATAMGM-822) - Enhance the java client error message * [HPCDATAMGM-862](https://tracker.nci.nih.gov/browse/HPCDATAMGM-862) - [Browse - Expanding a collection resulting empty page](https://tracker.nci.nih.gov/browse/HPCDATAMGM-862) * [HPCDATAMGM-853](https://tracker.nci.nih.gov/browse/HPCDATAMGM-853) – Exception message about data hierarchy * [HPCDATAMGM-848](https://tracker.nci.nih.gov/browse/HPCDATAMGM-848) - [Cache search criteria on errors](https://tracker.nci.nih.gov/browse/HPCDATAMGM-848)   ================================================================                     4.0 Bug Reports and Support  ================================================================  The preferred approach is to first search the HPC Agile Board for your issue or feature enhancement if you have the access privilege (<https://tracker.nci.nih.gov/secure/RapidBoard.jspa?rapidView=244>).  When there is no entry in the JIRA Tracker, feel free to post your question to the Tracker.  Users are welcome to email their problem or feature request through email to: [HPC\_DME\_Admin@nih.gov](mailto:HPC_DME_Admin@nih.gov).  ================================================================                          5.0 Documentation  ================================================================  The HPC DME Server API, User Guide, Admin Guide documentation, and related documentation can be found on the project's GitHub:  <https://github.com/CBIIT/HPC_DME_APIs/tree/master/doc/guides>  Training related documentation and presentation may be found on the following GitHub directory:  <https://github.com/CBIIT/HPC_DME_APIs/tree/master/doc/training>  ================================================================                          6.0 References  ================================================================  The following URLs access web pages relevant to HPC DME.  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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