DataMover Lite

This version of Data Mover Lite (DML) supports file transfers based on protocols: gsiftp, http and https.

The Webstart enabled DML can be downloaded from the location: http://datagrid.lbl.gov/dml4/jnlp/dml.jnlp

Instructions:

- Step 1
 - Open the link <u>http://datagrid.lbl.gov/dml4/jnlp/dml.jnlp</u>. It downloads webstart version of DML to the target machine.
 - Click on the "Get Credential" button on the DML main window.
 - User may login in one of the two possible ways.
 - User can choose a Gateway from the drop down menu and just login with their username and password.
 - User can choose to login with their OpenId.
 - Select a gateway endpoint from the drop down menu. Default lifetime is 72 hours, user can also request a specific credential lifetime. The lifetime granted depends on the configuration of the gateway. NOTE: Some gateways don't grant more than 12 hours.
 - Credential is stored at user's local disk and will be reused later for another transfers until its valid lifetime time.

▲ DataMover-Lite	
DML	
Earth System Grid	A Carlos Mark
Get Credential Open Choose Target Dir. Enter a Value	Transfer Cancel Clear
📄 Get Credential	
OpenID Login/Password	
ESGF Credential	
Gateway : BADC Host : myproxy.ceda.ac.uk:7512 Lifetime(hours) : 72 Login: vnatarajan Passphrase: *******	
GetCredential Cancel Reset Credential Info. Delete Credential Renew proxy auto	

Figure 1: A sample screen shot for obtaining ESGF credentials with user login and password.

📑 Get Credential 🗖 🖬						
OpenID Login/Password						
OpenId login						
OpenID: https://ceda.ac.uk/openid/Vijaya.Natarajan						
Password:						
LoginName: Vijaya Natarajan 🔲 UseDifferentName						
(If your login name is different than the openid, please click different name and provide loginname.)						
GetCredential Cancel Reset Credential Info. Delete Credential Renew proxy auto						

Figure 2: A sample screen shot for obtaining ESGF credentials with OpenId.

• Step 2

• User downloads the wget-download.sh file from the gateway.



Figure 3: A sample screen shot for wget script download.

- Step 3
 - User opens the downloaded *wget-download.sh* file by clicking on the "Open" button from the main DML window. DML parses the file and creates a transfer window.

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DML						
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Figure 4: A sample screen shot for wget script download.

• User clicks on the "Transfer" button on the DML main window. The file is transferred using the credential retrieved previously by the user.

• Step 4

- User can either select to download all the files (default behavior) or just a subset of files from the wget-download.sh by marking the checkbox for the file.
- The selected files will be downloaded, and the remaining files are marked as skipped. More files can be added or skipped to the subset during the file transfer. Once the current transfer is done user can transfer more subset(s) of files from the same wget-download.sh.
- Files can be selected either by selecting them individually or contiguous block of files can be selected by Shift+Click.

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Figure 5: A sample screen shot for downloading first subset of files.

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Show/Hide Summary and Status Information)	

Figure 6: A sample screen shot for downloading second subset of files.

- DML can handle only one request at a time. When the transfer is done, user can open up another wget-request.sh or an inputfile.
- If user wants to cancel the request, they can click on the "Cancel" button, DML cancels the request after the current "active" file transfer is done.

NCAR gsridftp transfers:

• User opens up the DML input file downloaded from the portal. The input file also contains the gateway login endpoint.



• During the transfer DML opens up a dialog box with username/password and retrieves the credential and continues the transfers.

DataMover-Lite							
	Earth System Grid						
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Show/Hide (Su	Show/Hide &ummary and Status Information)						

Figure 7: A sample screen shot for downloading NCAR gsiftp files.

Catalog Browsing Prototype

- Catalog browsing feature is included in this version of DML. Currently, Browsing feature is enabled only for NASA-JPL gateway. Soon we will include browsing capability for other gateways.
- Click on CatalogMenu->BrowseCatalog to bring the catalog browsing window.
- Click on the desired tree node and filter the search. The selected files come on the right side panel.

• Search results are grouped by "20". "Transfer All" button will move all the files on the right side panel to the transfer window. "Transfer Selected" button will move the selected files from the right side panel to the transfer window. Transfer window will show the source, target, and file size for each files. User can choose again which files they want to transfer among the list, and click "Transfer".

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Figure 8: A sample screen shot for catalog browsing

- New Features Added in DML-4
 - Target Files are downloaded in Hierarchy by default. Please unclick this checkbox if you want to download the files in flat-fashion.
 - By default files are downloaded with plain single connection. To increase download speed please click on SplitTransfer. This will open up "5" connections and downloads the files in to pieces. After the transfer is done, downloaded pieces are merged to form a single file.
 - Concurrency can also be choosen alongwith SplitTransfer. Files are downloaded in concurrency alongwith SplitTransfer.

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Earth System Grid					
Get Credential Open Choose Target Dir. Enter a Value Trans	fer Cancel Clear				
DML Preferences					
Config Advanced GridFTP Transfer Options					
Concurrency 1 * Retry 2 *					
Overwrite Target files					
✓ DownloadInHierarchy					
Save Detailed Report on Exit					
Show Transfer Rate in bytes/sec (Default/MB/sec)					
SplitFiles					
close					

Figure 9: Target files are downloaded in Hierarchy

Table of Messages:

• This table shows Error Messages or Warning Messages that can happen during "GetCredential" process.

ErrorMessages/WarningMessages	Explanations
MyProxy get failed. [Caused by: invalid username]	Please check your login username for the selected Gateway host.
MyProxy get failed. [Caused by: invalid password]	Please check your password for the selected Gateway host.
Exception : Please select a Host from the pulldown menu.	User clicked on "GetCredential" button without selecting a Gateway host. Please select a Gateway Host from the pulldown menu.

Exception : username or password is not provided Exception : username or password is not provided Exception : username or password is not provided	User clicked on "GetCredential" button without provided username and password.Please provide username and password. Passphrase is not provided to initiate userproxy credential. Please provide the passphrase.
Login attempt failed for 3 times	Login to Gateway host failed for 3 times. Please clear the panel, reopen the ncar input file and click Transfer again to login again.
EndPoint info or valid proxypath is not provided. please click "GetCredentials" and obtain a credential or enter a valid proxy path. Please Resume transfer after you GetCredential	User has tried to transfer the files, without getting the credentials first. Please click on the GetCredential button and retrieve credentials.
gov.lbl.srm.client.exception.SRMClientException: No proxyfile found, peform getcredential first gov.lbl.srm.client.exception.SRMClientException: No proxyfile found, peform getcredential first OK	User clicked on CredentialInfo or DeleteCredential without obtained credential first. Please get credential first.
Your proxy has only 9 second left.Please use GetCreden	User proxy has only few seconds left, may not be enough for the transfer. Please get your credentials again or renew your userproxy.
UserCert/UserKey must be provided to GetCredential	User selected "userproxy" credential" and clicked on "GetCredential" without providing values for UserCert/UserKey. Please provide values for UserCert and UserKey.
Exception: Login to AuthorizationService is cancelled.	User decided to cancel to login to the Gateway host Authorization service.

• This table shows Warning Messages or Error Messages that can happen during file transfers.

ErrorMessages/WarningMessages	Explanations	

This file transfer request was cancelled. X This file transfer request was cancelled. OK	This current request was already cancelled by the user. If you want to resume please click on the "Clear" button on the top and reopen the wget-download.sh input file and click "Transfer"
Please click on the "Choose Target Dir" button to choose a target directory. Image: Please click on the "Choose Target Dir" button to choose a target directory. Image: Please click on the "Choose Target Dir" button to choose a target directory.	Target Dir is not selected to download files. Please click on the "choose Target Dir" button to choose a target directory on the local machine for downloading files.
Cannot close this request, active transfer is going on now.	Please wait until the all the files in the request is transferred fully.
Target Dir file////C:\Users\Shiva\Desktopp does not exist, please click on the "Choose Target Dir" button to choose a different target dir.	The target dir selected to download files does not exist on the local computer. Choose a different existing target dir.
Exception : Files in the request (1)exists already in the local disk.Please use D Exception : Files in the request (1)exists already in the local disk. Please use DML->Preferences->Config and choose overwrite option	All files in this request already exists in the local disk, please use use DML- >Preferences->Config and choose overwrite option.
No files to show in the panel, please check your input file	User used a non wget-download.sh file as an input file or incorrect input file. Please check your input file.

• This table shows other informational messages in DML.

Information Message	Explanations
ProxyPath=C:lUsers\Shiva\esg\credentials.pem Identity=/0=Grid/OU=GlobusTest/OU=simpleCA-pcrdi3.llnl.gov/CN=https://pcrdi3.llnl.gov/esgcet/myopenid/vijaya HoursLeft=11 MinutesLeft=22 SecondsLeft=29 OK	Showing users current credential information. This information message is shown after user "clicked" on "CredentialInfo" button.

ProxyFile C:\Users\Shiva\.esg\credentials.pem deleted successfully. X ProxyFile C:\Users\Shiva\.esg\credentials.pem deleted successfully. OK	User clicked on "Delete Credential" button, message is showing that credential is deleted successfully.
A proxy has been received for user C:Users\Shiva in C:Users\Shiva\esg\credentials.pem Identity=/0=Grid/OU=GlobusTest/OU=simpleCA-pcmdi3.llnl.gov/CN=https://pcmdi3.llnl.gov/esgcet/myopenid/vijaya HoursLeft=11 NinsLeft=59 SecsLeft=59 (NOTE: Lifetime granted depends on the configuration of the specific Gateway server.) OK	After a credential is received from the Gateway Host, information about the credential is shown to the user.