Infrastructure - Story #2386

refactor CLI to use command line switches when non-interactive

2012-02-23 20:37 - Matthew Jones

Status:	Closed	**Start date:**	2012-03-02
Priority:	Normal	**Due date:**	
Assignee:	Andrew Pippin	**% Done:**	100%
Category:	d1_client_cli	**Estimated time:**	0.00 hour
Target version:	Sprint-2012.09-Block.2.1		
Story Points:			

Description

The CLI application has been refactored to use an interactive command set that allows a fluid interaction with the system. This works well in interactive mode, but the use of these same 'commands' is awkward and atypical of command-line applications. The CLI should be refactored to:

1. Add a switch to indicate that the command should be run in interactive more (-i, --interactive)
2. Accept a set of command line switches (e.g., --mn-url) using the GNU options format that set the values of parameters from the commandline when not in interactive mode
3. Accept a single command when not in interactive mode, followed by its parameters

So, for example:

d1_client --mn-url https://some.mn.url/mn/v1 --cert-file /tmp/mycert.pem create testid.1.1 myfile.csv

We'll need to discuss the exact syntax of the commandset, but in general it should be identical to the interactive commands.

Subtasks:

Task # 2427: Convert previous session variables to new session variables	**Closed**

History

#1 - 2012-02-23 20:45 - Matthew Jones

- Category set to d1_client_cli

- Assignee set to Andrew Pippin

- Target version set to Sprint-2012.07-Block.1.4

#2 - 2012-02-23 20:51 - Matthew Jones

- Position deleted (2)

- Position set to 2

#3 - 2012-02-27 17:57 - Dave Vieglais

- Position set to 19

- Target version changed from Sprint-2012.07-Block.1.4 to Sprint-2012.09-Block.2.1

- Position deleted (1)

#4 - 2012-02-27 19:48 - Andrew Pippin

Currently	Proposed
authoritativemn	authoritative-mn, or auth-mn
certpath	cert-file
dataoneurl	dataone-url
fromdate	from-date
keypath	key-file
mnurl	mn-url
objectformat	object-format
originmn	origin-mn
rightsholder	rights-holder
searchobjectformat	search-object-format

| todate | to-date |

Unchanged:
    algorithm, anonymous, count, fields, pretty, query, start, submitter, verbose

#5 - 2012-02-27 19:59 - Andrew Pippin

- Status changed from New to In Progress

#6 - 2012-02-28 00:25 - Andrew Pippin

See below for the options.

The boolean options (anonymous, interactive, pretty) have "no" options as well. The opposite of verbose is often "quiet", so that is also an option.

Usage: dataone.py [command] ...

Options:
--algorithm=ALGORITHM
Checksum algorithm used for a Science Data Object.
--anonymous   Ignore any installed certificates and connect
anonymously
--no-anonymous   Ignore any installed certificates and connect
anonymously
--auth-mn=MN-URI   Authoritative Member Node for generating System
Metadata.
--cert-file=FILE   Path to client certificate
--count=COUNT   Maximum number of items to display
--dataone-url=CN-URI Node to use for the root Coordinating Node
--fields=FIELDS   Comma delimited list of index fields to return in
search responses
--from-date=DATE   Start time used by operations that accept a date range
-i, --interactive   Allow interactive commands
--no-interactive   Don't allow interactive commands
--key-file=FILE   File of client private key (not required if key is in
cert-file
--mn-url=MN-URI   Member Node URL
--object-format=OBJECT-FORMAT
ID for the Object Format to use when generating System
Metadata
--origin-mn=MN-URI   Originating Member Node to use when generating System
Metadata
--pretty   Display XML with human friendly formatting
--no-pretty   Display XML with human friendly formatting
--query=QUERY   Query string (SOLR or Lucene query syntax) for
searches
-q, --quiet   Display less information
--rights-holder=SUBJECT
Subject of the rights holder to use when generating
System Metadata
--search-object-format=OBJECT-FORMAT
Include only objects of this format when searching
--start=START   First item to display for operations that display a
list of items
--submitter=SUBJECT Subject of the submitter to use when generating System
Metadata
--to-date=DATE   End time used by operations that accept a date range
-v, --verbose   Display more information
--no-verbose   Display less information
-h, --help   show this help message and exit

#7 - 2012-02-28 01:43 - Andrew Pippin

The session information is replaced with the values from @~/.d1client.conf@. However, those values may not (probably won't) be the same for awhile. Should the application:

just silently change them and save new ones?

update the d1client.conf file with the new values and inform the user?

abort and have a special command be run to map them?

I vote for number 2, because I don't like programs changing my configuration files without letting me know.

#8 - 2012-03-01 22:45 - Andrew Pippin

- % Done changed from 0 to 90

Need to determine how to transition from previous state.

#9 - 2012-03-02 01:58 - Andrew Pippin

- Status changed from In Progress to Closed

The CLI is now able to convert the previous session variable names to the new "dashed" session variable names (see #2427).