

## Infrastructure - Story #2386

### refactor CLI to use command line switches when non-interactive

2012-02-23 20:37 - Matthew Jones

<b>Status:</b>	Closed	<b>Start date:</b>	2012-03-02
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Andrew Pippin	<b>% Done:</b>	100%
<b>Category:</b>	d1_client_cli	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Sprint-2012.09-Block.2.1		
<b>Story Points:</b>			
<b>Description</b> <p>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:</p> <ol style="list-style-type: none"><li>1. Add a switch to indicate that the command should be run in interactive mode (-i, --interactive)</li><li>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</li><li>3. Accept a single command when not in interactive mode, followed by its parameters</li></ol> <p>So, for example:</p> <pre>d1_client --mn-url <a href="https://some.mn.url/mn/v1">https://some.mn.url/mn/v1</a> --cert-file /tmp/mycert.pem create testid.1.1 myfile.csv</pre> <p>We'll need to discuss the exact syntax of the commandset, but in general it should be identical to the interactive commands.</p>			
<b>Subtasks:</b> <p>Task # 2427: Convert previous session variables to new session variables</p>			
			<b>Closed</b>

#### 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 Viegais

- 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
authoritative	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](#)).