

# Niagara Cmdline

This article describes how to use Niagara's cmdline-only mode. This mode allows Niagara users to load and run basic Niagara operations from a Windows Command Prompt or Linux Terminal. Additionally, cmdline mode allows users to execute a Tcl script and then exit back to the command prompt. This functionality is available in all editions of Niagara starting with version 3.3.7.

## Running cmdline mode:

To open Niagara in cmdline mode, navigate to the Niagara folder. Then run the appropriate command for the OS being used:

Windows: `Niagara_Cmdline.bat -d <driver> -s <script> -r <drive> -p <path>`

Linux: `bash Niagara_Cmdline.sh -d <driver> -s <script> -r <drive> -p <path>`

All parameters are optional and may be issued in any order. For example:

```
Niagara_Cmdline.bat -d wincil -s test.tcl
```

```
Niagara_Cmdline.bat -s test.tcl -d wincil -r 1
```

A quick reference can be accessed using:

```
Niagara_Cmdline.bat -h
```

```
bash Niagara_Cmdline.sh -h
```

Starting in version 3.3.8, users can enter "ncli" (Niagara Command Line Interface) instead of "Niagara\_Cmdline" in both Windows and Linux. The "ncli" command is simply a wrapper for the Niagara\_Cmdline files.

## Legacy Arguments:

To open Niagara in cmdline mode, navigate to the Niagara folder. Then run the appropriate command for the OS being used:

Windows: `Niagara_Cmdline.bat <driver> <script> <dev_id> <directory>`

Linux: `bash Niagara_Cmdline.sh <driver> <script> <dev_id> <directory>`

If <driver> is not specified, Windows will default to using WinCIL and Linux will default to using SG.

If <script> is not specified, Niagara will load and then prompt the user for commands. Users can enter "exit" to return to the Command Prompt.

If <script> is specified, Niagara will load, attempt to run the Tcl script provided, and then automatically exit back to the Command Prompt. A driver must be specified in order to run a script. Also note that forward slashes must be used to specify a file path and that spaces in the file path are not allowed. Valid: `C:/temp/test.tcl`. Not valid: `C:\temp\test.tcl`. Not valid: `C:/my temp/test.tcl`.

If <dev\_id> is specified, then the variable `::env(dev_id)` will be set to that value. If not specified, `::env(dev_id)` will be set to 0. This variable can then be used in Tcl scripts to specify a specific device for Niagara to select. For an example of how this can be used, see this Tcl file: [cmdline\\_example.tcl](#)

If <directory> is specified, Niagara will attempt to run in that directory. Any files that Niagara writes will be stored there including the `user_prefs.tcl` file. This is useful when the install directory cannot be written to for one reason or another.

Please note that while all parameters are optional, if you specify one you must also give all earlier parameters. For example to specify the the `dev_id` you must also give the driver and script.

## Supported Niagara commands

Not every Niagara tool can run in cmdline mode just yet. Enter "help" while in cmdline mode to see a list of some of the supported commands. All "uil", "device", "buff", and drive commands are supported, along with the commands that run the tools in this table:

Tool	Command
BitFlip	<code>::bitflip::plot</code>
Download Code	<code>dwnldsv</code>
ETM Decoder	<code>etm</code>

Format	fmt_unit
LogDump	logdump::gather, logdump::parse, logdump::run
Prep Drive	prep
SuperCSO	scso; source *.scso

Enter <command> -help to learn more about how to use the commands in this table.