# **Command Format Specification**

The Command Format Specification is a system for delivering arguments to DHN Exec for building a GUI that corresponds to a command line utility's arguments. DHN Exec builds and optionally executes the GUI-generated command line(s).

Per convention, calling the command-line utility with no arguments should return standard usage information to the terminal.

Call the command-line utility with the single argument "-command\_format" to get the following (in stderr):

```
arg: arg_name (arg_type) (it) (opt)
:
arg: arg_name (arg_type) (it) (opt)
flag: va
flag: rar
flag: rc
flag: cs
ver: 1.0
```

"(it)" indicates the argument is iterable "(opt)" indicates the argument is optional

An "arg\_name" is a string with argument name (no white space characters). Italicized components above need not be present

## **Argument Types**

```
(int): integer
(int+): integer primary, but also allow text (special values)
(float): floating point number
(float+): floating point primary, but also allow text (special values)
(tern): ternary value
(str): string
(file): file
(dir): directory
(path): file or directory
(pass): password (this field type is not iterable)
(vararg): user specified argument type or option
(option): an option can be explicitly requested, but this is usually invoked as an optional vararg
```

# **Flag Types**

```
Flags are codes to DHN Exec to perform other specific actions:
```

"flag: va": display a "Vararg" button (allow user to add arguments or options)

"flag: rar": "run as root", display a "Sudo PW" button (if not already known)

"flag: rc": display an "Edit RC" button

"flag: cs": display an "Edit CS" button

Other flags may be added in the future functions, such as submission to a job distributor

#### **Version Information**

If present, the "ver" field indicates the software version.

## **Example C Code**