

# cmlcmd: Command Utility Version 1 CML00007-01

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## 1 Introduction

cmlcmd is a utility program that sends one or more user commands using TCP/IP to a server that has an exposed command interface and writes the server response to stdout.

Commands that cmlcmd is to send to a server may be entered interactively or saved in a file and executed as a batch.

# 2 Invoking cmlcmd

The utility is invoked from the command line and if passed the '--help' parameter will write information about all the available parameters to stdout.

#### 2.1 Synopsis

```
user@machine> cmlcmd --help
Code Magus Limited Command Utility V1.0: build 2011-04-05-12.21.31
[./cmlcmd] $Id: cmlcmd.c,v 1.19 2011/04/04 12:59:40 janvlok Exp $
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 [Contact: stephen@codemagus.com].
Usage: cmlcmd [OPTION...]
  -i, --interactive
                                            Interactive session with a server
  -C, --host-charset={same|ascii|ebcdic}
                                            Host character set
  -h, --host={localhost|<host>}
                                            Host name or TCP/IP address
  -p, --port=<port>
                                            TCP/IP port number
  -c, --command=<command>
                                            Command to send
  -f, --file=<file name>
                                            File containing commands to send
  -d, --path=<path>
                                            Path for command the file
  -t, --timeout={1|<seconds>}
                                            Maximum time in seconds to wait
                                            for a response
Help options:
  -?, --help
                                             Show this help message
  --usage
                                             Display brief usage message
```

#### Where:

- $\bullet$  '-i|--interactive' Requests an interactive session with a server.
- '-C|--host-charset' Specifies the character set the server is using.
- '-h|--host' Specifies the host address of the server. This may be a dotted decimal IPv4 address or a domain name address.
- '-p | --port' Specifies the port number of the server.
- '-c|--command' Specifies the command to send to the server.

2.2 Exit Status 3 EXAMPLES

• '-f|--file' Specifies a file that contains commands to send to the server. This parameter is validated by the cmdname [1] library and must adhere to those requirements.

- '-p|--path' Specifies the path where the command file can be found. This parameter is validated by the cmdname [1] library and must adhere to those requirements.
- '-t | --timeout' Specifies the time in seconds to wait for a response from the server. The default time out is one second.

#### 2.2 Exit Status

cml cmd exits and returns zero to the invoking system on success.

On failure 16 is returned and an appropriate error message is written to stdout.

Examples of error conditions are:

- Parameter errors. Any parameters that are out of bounds or required but not specified cause an error condition.
- A response is not received within the time limit specified.
- The connection could not be established.

# 3 Examples

#### 3.1 Sending Single Commands

Send two separate commands to a server on a remote host:

# 3.2 Sending Canned Commands

Send the commands saved in a file to a server on a remote host:

```
.
.
SNMP damager.africa.nedcor.net> open probe
CML SNMP probe initialised
```

#### 3.3 Starting an Interactive Command Session

Enter an interactive session with a server on a remote host. If the host and port are not specified on the command line, cmlcmd will request this from the user:

```
jan@bloubos:~/software/cmlcmd> cmlcmd --interactive
Code Magus Limited Command Utility V1.0: build 2011-04-05-12.11.12
[cmlcmd] $Id: cmlcmd.c,v 1.19 2011/04/04 12:59:40 janvlok Exp $
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  [Contact: stephen@codemagus.com].
Enter IPADDR - host:port > phoenix:10000
Connecting to phoenix:10000
phoenix:10000 > help
serfboard>[output (<filename>)] <command>
try: help {background|display|exit|load|open|set|shutdown|start
serfboard>phoenix:10000 >
```

## 3.4 Invoking Single and Interactive Commands

Send a command to a server on a remote host and then enter an interactive session with the server:

```
jan@bloubos:~/software/cmlcmd> cmlcmd --interactive --host=phoenix --port=10000
                               --command="help"
help
serfboard>[output (<filename>)] <command>
try: help {background|display|exit|load|open|set|shutdown|start
Code Magus Limited Command Utility V1.0: build 2011-04-05-12.11.12
[cmlcmd] $Id: cmlcmd.c,v 1.19 2011/04/04 12:59:40 janvlok Exp $
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 [Contact: stephen@codemagus.com].
serfboard>phoenix:10000 > help display
display metric {[all [(group(<name>))] | [<name> (group(<name>))] }
    Display metrics
display dashboard <name>
   Display a dashboard
display status
    Display serfboard status
serfboard>phoenix:10000 >
```

## 3.5 Error Conditions

Send a command to a server on a remote host, but specify an invalid port number:

REFERENCES REFERENCES

# References

[1] cmdname: Command Name Resolver Library Version 1. CML Document CML00076-01, Code Magus Limited, December 2010. PDF.