

Commandset for the MC3

MC3 Cntrl Eng [v1.501.2867.25137 (Nov 07 2016), #xxx] @E-xxx

199 normal commands found. 95 hidden commands available.

3STONES	Test watchdog timer
3STONES No parameters	
8021XAuthenticate	Enable/Disable 802.1x Authentication.
8021xAuthenticate [ON OFF] ON - Enable 802.1x Supplicant Authentication OFF - Disable 802.1x Supplicant Authentication No parameter - displays current setting	
8021XDOMAIN	Configure/View 802.1x Domain Name.
8021xDomainName [Domain Name] DomainName - Update Domain Name To Domain Specified No parameter - displays current setting	
8021XMETHOD	Configure/View EAP Method.
8021xMethod [Password Certificate List] Password - 802.1x Supplicant Will Use Secured Password (EAP MSCHAP V2) EAP Method Certificate - 802.1x Supplicant Will Use Certificate EAP Method List - 802.1x Supplicant Will display the supported EAP Methods No parameter - displays current setting	
8021XPASsword	Configure 802.1x Password.
8021xPassword [Password] {Password} - Update Password To One Specified No parameter - Echo back command	
8021XSENDpeapver	Enable/Disable 802.1x Peap version reporting.
8021xSendPeapVer [ON OFF] ON - enable 802.1x peap version number report OFF - disable 802.1x peap version number report No parameter - displays current setting	
8021XTRUSTedcas	Select/List 802.1x Trusted CA Certificates.
8021xTrustedCAs [LIST USE DONTUSE] <Certificate_Name Certificate_UID> LIST - List All Trusted Root Certificates USE {Certificate Name and UID} - Add Specified Certificate To List Of Certificates Used To Validate The Server DONTUSE {Certificate Name and UID} - Remove Specified Certificate From List Of Certificates Used To Validate The Server No parameter - Display this help message	
8021XUSERname	Configure/View 802.1x User Name.
8021xUsername Password <Name> Password - Displays current settings Password {Name} - Update User Name To Name Specified No parameter - Displays Help Menu	
8021XVALIDateserver	Require Validation Of 802.1x Authentication Server's Certificate.
8021xValidateServer [ON OFF] ON - 802.1x Supplicant Will Validate Authentication Server's Certificate OFF - 802.1x Supplicant Will Not Validate Authentication Server's Certificate No parameter - displays current setting	
ACQUIRE	Start/stop acquire process
ACQUIRE [START STOP] [timeout] timeout - optional, timeout is in minutes max timeout is 180 minutes (in decimal)	
ADDBLOCKEDip	Add an IP Address to the blocked list

No help available for this command.

ADDDOMAINGroup**Add a domain group to this control system**

No help available for this command.

ADDNns**Add an entry to DNS server List**

ADDNNS ip_address
ip_address - IP address in dot decimal notation

ADDGroup**Create a new local group**

No help available for this command.

ADDLicense**Add application license.**

ADDLICENSE [License] {Name} - add license
License - license key
Name - license name string (optional)

ADDMaster**Add a master entry to IP table**

Format: ADDMaster cip_id ip_address/name
cip_id - ID of the CIP node (in hex)
ip_address/name - IP address in dot decimal notation
- or name of the site for DNS lookup

ADDPeer**Add a peer(slave) entry to IP table**

Format: ADDPeer cip_id ip_address/name [-D:device_id] [-C:ciport] [-P:program]
cip_id - ID of the CIP node (in hex)
ip_address/name - IP address in dot decimal notation
- or name of the site for DNS lookup
device_id - ID in device redirection table (in hex) (must be < 256)
port number - port number for the connection (in dec) (must be > 256)
program - program number which uses device (in dec) (default 1)

ADDUSER**Create a new local user**

No help available for this command.

ADDUSERTogroup**Add an existing local or domain user to an existing local group**

No help available for this command.

ADLOGIn**Login to Active Directory server**

ADLOGIN -d:domain -n:username -p:password
-d: specifies name of the domain to login.
-n: specifies the user name used for connection.
-p: specifies the password used for connection.

ADLOGOut**Logout from Active Directory server**

ADLOGOUT
No parameters needed.

APPSTATS**Dumps out Registered App Stats**

APPSTATS {-P:ALL | -P:Specific Program Identifier}
-P: Dump app info for a specific program or ALL. If not present, ALL assumed.

AUCANCEL**Cancel the auto upate in progress.**

AUCANCEL
No Parameters - Cancels any pending auto update.

AUCHECKNOW**Check for updates now.**

AUCHECKNOW

No Parameters - Checks for auto update actions now.

AUDEVCONNECTPASS

Get/Set the password used by auto update to login to Crestron devices.

AUDEVCONNECTPASS [password]

password - Password for connecting to remote devices.
 - To clear password use keyword "none" as password.
 No Parameters - Displays current setting

AUDEVCONNECTUSER

Get/Set the username used by auto update to login to Crestron devices.

AUDEVCONNECTUSER [username]

username - Username for connecting to remote devices.
 - To clear username use keyword "none" as username.
 No Parameters - Displays current setting

AUDITLogging

Display or Change the current audit logging operation.

No help available for this command.

AUENABLE

Enable/disable automatic updates.

AUENABLE [ON|OFF]

Enable/disable auto updates.
 No Parameters - Displays current setting

AUFORCEUPDATENOW

Force updates now.

AUFORCEUPDATENOW

No Parameters - Forces manifest file to be processed now.

AUMANIFESTURL

Get or Set auto updater manifest URL.

AUMANIFESTURL [URL]

URL - URL of Manifest file.
 NONE- clear the of Manifest url path.
 No Parameters - Displays current setting

AUPASSWORD

Get/Set the password used by auto update to login to the update server.

AUPASSWORD [password]

password - Password for downloading auto update files.
 - To clear password use keyword "none" as password.
 No Parameters - Displays current setting

AUPLUGINCATALOGURL

Get or Set auto updater plugin catalog URL.

AUPLUGINCATALOGURL [URL]

URL - URL of Plugin Catalog file.
 NONE- To go back to the Default Plugin Catalog URL which is <http://www.crestron.com/autofwupdates/AU-Plugin-Catalog.txt>.
 No Parameters - Displays current setting

AUPOLLINTERVAL

Set how long to wait before checking for updates again.

AUPOLLINTERVAL [interval_in_minutes]

interval_in_minutes - How many minutes to wait before checking for updates.
 Will be rounded up to the nearest hour. 0 to disable.
 No Parameters - Displays current setting

AUSTATUS

Reports the auto update status.

AUSTATUS

No Parameters - Displays current auto update status

AUTHentication

Authentication on/off

No help available for this command.

AUTIME

Set a scheduled time for when to check for updates.

AUTIME [TIME]

TIME is [SUNDAY|MONDAY|TUESDAY|WEDNESDAY|THURSDAY|FRIDAY|SATURDAY] HH:MM
HH:MM: 24 hour time when the manifest file should be read.
Specifying only HH:MM will make the update run every day at that time.
Specifying the day in addition HH:MM will make the update run only at that day and time each week.
To clear time use keyword "none" as [TIME].
No Parameters - Displays current setting

AUTODIScovery

Commands for Ethernet auto discovery

AUTODISCOVERY [ON | OFF | QUERY | LIST | HOSTS | LIGHTBYIP ipaddress | LIGHTBYTYPE type {NOFORCEALL}| STOPLIGHT | SETNEXTID id | SQUAWK | ipaddress hostname | CLEARBYIP ipaddress | CLEARBYTYPE type | FORCEBYTYPE type | SETNUMTIMESQUERYMSGSENT times | SETDELAYBETWEENQUERYMSGI | OPTION autodiscoveryqueryoption]

on : enables autodiscovery functions
off : disables autodiscovery functions
query : runs the discovery query
list : displays the list of nodes discovered
hosts : displays the list of hostnames
lightbyip : puts in the device at the specified IP address into light-n-poll mode.
lightbytype : puts in the devices of the specified type into light-n-poll mode.
NoForceAll : Will not force all the devices into light-n-poll mode if the specified device type is not found.
stoplight : removes all devices from light-n-poll mode.
setnextid : indicates that the next ID to set is id. Entered in hex.
squawk : simulates pressing the SW-R button in light and poll mode.
sethostname: assigned the given hostname to the device at specified ip address.
clearbyip : clears the IP table in the device at the specified IP address.
clearbytype : clears the IP table in the devices of the specified type.
forcebytype : force the device of the specified type to the previous chosen ID.
setnumtimesquerymsgsent : Set the number of times the query message is sent.
setdelaybetweenquerymsginms : Set the delay (in msec) between sending each query message.
option : Sets autodiscovery query message option [HOSTNAME | IPADDRESS | HOSTNAME_IPA].

AUTONEGot

Set auto negotiation for Ethernet Device

AUTONEGOT [device_num (ON | 10HALF | 10FULL | 100HALF | 100FULL)]

device_num - number of device to set (0 or 1)
ON - autonegotiation is ON
10HALF - autonegotiation is OFF, use 10mps, half duplex.
10FULL - autonegotiation is OFF, use 10mps, full duplex.
100HALF - autonegotiation is OFF, use 100mps, half duplex.
100FULL - autonegotiation is OFF, use 100mps, full duplex.
No parameter - displays current setting

AUSERNAME

Get/Set the username used by auto update to login to the update server.

AUSERNAME [username]

username - Username for downloading auto update files.
- To clear username use keyword "none" as username.
No Parameters - Displays current setting

BASICAUthentication

Enable web server basic authentication.

BASICAUTHENTICATION [ON | OFF]

ON - Enable basic authentication for web server.
OFF - Disable basic authentication for web server.
No parameter - Display current setting.

BROADcast

Enable/disable broadcasting of errors.

BROADCAST [ON|OFF]

No parameter - displays current setting

BYE

Close user session for this connection

BYE - Closes the user session for the current connection

CARDS

Display Cards Detected in System

CARDS
No parameters

CD

Change Directory

CD [directory]
directory - string containing directory specification
No parameter - display current setting

CERTIFICATE

Add, Remove, List or View Certificates

CERTIFICATE Cmd Certificate_Store {Certificate_Name} {Certificate_UID} {Password}
Where Cmd = {ADD|REM|LIST|VIEW}
Where Certificate_Store = {ROOT|MACHINE|USER|INTERMEDIATE}
ADD Certificate_Store - Add Certificate(from known location) To Specified Certificate Store (MACHINE store requires password)
REM Certificate_Store Certificate_Name Certificate_UID - Remove Specified Certificate From Specified Certificate Store
LIST Certificate_Store - List All Certificates In Specified Certificate Store
VIEW Certificate_Store Certificate_Name Certificate_UID - View Details Of Specified Certificate In Specified Certificate Store
No parameter - Lists Usage

CIPHER

Set/Get the class of ciphers/algorithms used for the encryption

CIPHER [STRONG/ALL]
parameter - desired set of ciphers/algorithms SSH server will use for encryption
No parameter - displays current value

CIPPORT

Set port number for CIP

CIPPORT [portnumber]
portnumber - desired port number > 4095 (in decimal).
No parameter - displays current value

CLEARAUDITLOG

Clear the audit log.

No help available for this command.

CLEARCSAUTHENTICATION

Clear Control System Authentication credentials.

ClearCSAuthentication
Clear Control System Authentication parameters for CIP connect message.

CLEAREvents

Clear application timer events

Clear all timer events for specified event group within application program id.
CLEAREVENTS -I:ProgramTag -G:GroupEventName
-I: ProgramTag/UserDefinedTag
-G: Group Event Name

CLEARerr

Clears the current error log.

CLEARERR
Clears the current error log.

CLOUDPROXYAUTH

Sets the authentication method for connecting to a proxy

Sets the specified authentication methods to try when connecting to a proxy, the methods must be space delimited
CLOUDPROXYAUTH: [None | Basic | Digest | Digest_IE | NTLM | ANY | ANYSAFE | ONLY]
None - no authentication
Basic - Most commonly used and supported, username/password are sent in clear text (DEFAULT)
Digest - More secure than BASIC, username/password are NOT sent in clear text
Digest_IE - Digest authentication with an IE flavor
NTLM - A proprietary protocol invented and used by Microsoft. It uses a challenge-response and hash concept similar to Digest, but password is not being eavesdropped
ANY - Automatically selects whatever is suitable, the most secure option is preferred
ANYSAFE - Automatically selects whatever is suitable except 'BASIC', the most secure option is preferred
ONLY - Specifies that if authentication is required only the selected method is acceptable

CLOUDPROXYURL

Sets the url of the proxy used to make requests

Sets the url of the proxy used to make requests
CloudProxyUrl: [scheme://][username:password@[hostname | ipAddress][:port]]
scheme - The scheme of the request: http, socks4, socks5, etc
username - The username used to connect to the proxy server (OPTIONAL)
password - The password used to connect to the proxy server (OPTIONAL)
hostname - The hostname of the proxy server
ipAddress - The ip address of the proxy server
port - The port number the proxy server is listening on (OPTIONAL, default '1080')
Use 'clear' to clear the current url

COPYfile	Copy a file to a different directory
<p>COPYFILE sourcespec destspec sourcespec - source file name specification (could be relative to current dir) destspec - destination file name specification (could be relative to current dir) filenames with embedded spaces must be enclosed in double quotes("The File")</p>	
CORE3XPANELWEB	Configure the core3 XPanel Flash policy server
<p>Core3XpanelWeb [ON OFF] [DOMAIN] [PORT(s)] [SECURE_OFF SECURE_ON] ON - enables Smart Graphics XPanel Web OFF - disables Smart Graphics XPanel Web DOMAIN - sets Smart Graphics XPanel Web domain PORT(s) - sets Smart Graphics XPanel Web port(s) (0 to use default port, * to open all ports. Other valid input examples: "64232" "64232,6700-8900") SECURE_OFF - Smart Graphics XPanel Web can only connect to control system using an unencrypted connection SECURE_ON - Smart Graphics XPanel Web can only connect to control system using encrypted TLS/SSL. Note: SSL must be ON and CA Sig No parameter - displays current setting</p>	
CREATECsr	Generate a CSR.
<p>CREATECSR CN:SN:LN:ON:OUN:DN:EA [-P:password] [-I:option] where CN = 2 letter country code where SN = Full state or province name where LN = Locality or city name where ON = Organization or company name where OUN= Organizational Unit name or division where DN = site name or domain name where EA = Email address where -P: sets password for the private key file being generated where -I: Ignore blank parameters. Options are True or False.</p>	
CTPPORT	Set/Get the CTP Port
<p>CTPPORT [portnumber] portnumber - desired port number > 4095 (in decimal). No parameter - displays current value</p>	
DATASTOREDElete	Clear the Logs for the Specified Program
<p>DATASTOREDELETE [-T:days OLD] [-P:ALL -P:Specific OWNER ID] [-L -G] -T: Delete older than xxx days -P: Clear DATASTORE for a specific owner or ALL. -L: Operate on Local Store -G: Operate on Global Store</p>	
DATASTOREEXPORT	Export to XML file
<p>DATASTOREEXPORT [-F:filename] [-P:ALL -P:Specific OWNER ID] [-L -G] -F:\filepath\filename for result. Default is Console -P: Export DATASTORE records for a specific owner or ALL. -L: Operate on Local Store -G: Operate on Global Store</p>	
DATASTOREIMPORT	Import from XML file
<p>DATASTOREIMPORT [-F:filename] [-L -G] -F:\filepath\filename to import. Default is Console -L: Operate on Local Store -G: Operate on Global Store</p>	
DATASTORESTATUS	The Data Store Status
<p>DATASTORESTATUS Gives Information on All data Store databases.</p>	
DBGDEVICE	(*) Simulate incoming packets for the sleected device
<p>DBGDEVICE[:program#] {devnum} {packet} {-L} - Simulate an incoming packet {packet} for device {devnum} program#: number of program to execute. (default=1) {devnum} is a Hex number (i.e. 0x0014) or a decimal number (i.e. 20) {packet} is a Quoted string representation of a packet without an ID or count (i.e. "\x00\x01\x80" represents a digital low for join 1) -L means the packet should be treated as a long packet.</p>	
DBGPKTRX	(*) Custom App Rx Debug.

```

DBGPKTRX[:program#] {Parameters}
  program#: number of program to execute. (default=1)
  -S:ON|OFF      Turn ON or OFF display of RX packets (Current: OFF)
  -N:C|E|S|A    Show for Cresnet, Ethernet, Slot, or All [All assumed if not present] (Current: Invalid)
  -I:ID          ID to debug; Preface with 0x for Hex. Assumes all ID's if not present (Current: ID 0x00, 0)
  -H:ON|OFF     Show packets as hex only (Current: OFF)
  -T:ON|OFF     Timestamp (Current: OFF)
  -Z:ON|OFF     Show packets with zero as the ID (Current: OFF)

```

DBGPKTTX

(*) Custom App Tx Debug.

```

DBGPKTTX[:program#] {Parameters}
  program#: number of program to execute. (default=1)
  -S:ON|OFF      Turn ON or OFF display of TX packets (Current: OFF)
  -N:C|E|S|A    Show for Cresnet, Ethernet, Slot, or All [All assumed if not present] (Current: Invalid)
  -I:ID          ID to debug; Preface with 0x for Hex. Assumes all ID's if not present (Current: ID 0x00, 0)
  -H:ON|OFF     Show packets as hex only (Current: OFF)
  -T:ON|OFF     Timestamp (Current: OFF)
  -Z:ON|OFF     Show packets with zero as the ID (Current: OFF)

```

DBGSignal

(*) Set/view Debug flags and signal values

```

DBGSignal[:program#] {Parameters}
  program#: number of program to execute. (default=1)
  DBGSignal RESET          - Turn off all debug flags (Global, Signal specific, and Ignore)
  DBGSignal ALL ON        - Turn on Global debug flag
  DBGSignal ALL OFF       - Turn off Global debug flag
  DBGSignal ALL SHOW      - Show global & signal debug status
  DBGSignal ALL SYNC      - Write values of non-zero digital & analog signals, non-transient serial strings
  DBGSignal TIME ON       - Turn on show time in ticks
  DBGSignal TIME OFF      - Turn off show time in ticks
  DBGSignal {signal} ON   - Turn on signal-specific debug flag for signal {signal}
  DBGSignal {signal} OFF  - Turn off signal-specific debug flag for signal {signal}
  DBGSignal {signal} SHOW - Show status of signal-specific debug flag & ignore flag for signal {signal}
  DBGSignal {signal} SYNC - Show value of signal {signal}
  DBGSignal {signal} IGNORE ON - Turn on ignore-global debug flag for signal {signal}
  DBGSignal {signal} IGNORE OFF - Turn off ignore-global debug flag for signal {signal}
  {signal} is a Hex number (i.e. 0x0014) or a decimal number (i.e. 20)

```

DBGTRANSMITTER

(*) Sets or clears Debug flag for IR/RF Transmitter

Sets or clears Debug flag for IR/RF Transmitter
 Customizable help. See the text file donotexec.upc

DEBUG

Set/View run-time debug options

Valid options are:

- CONSOLE - via current console
- DISABLE - all debugs OFF
- ASCII - ASCII only
- MIXED - ASCII and hex
- HEX_ONLY - hex, no ACSII
- HEX - hex with space
- NO_ZERoes - skip zeroes
- ALL_HEX - all hexadecimal
- SER_DATA - serial data only
- SINGLE_id - single cresnet ID
- POWERUP - powerup ON|OFF
- ON - all or powerup
- OFF - all or powerup
- SAVE - save in EEPROM
- LEVEL - set debug level(0-3)
 syntax: debug # ON|OFF [lev #]
- HELP - show levels bitmap
 Status if no arguments

#0 bitmap:

To use debug:

- enable debug output: DEBUG [CONSOLE]
- specify what to debug(run DEBUG with no parameters for opt#): DEBUG opt# [ON|OFF]
- to kill all debugs: DEBUG OFF
- to restore or clear settings after powerup(does autosave): DEBUG POWERUP [ON|OFF]
- to save manually debug conf(DEBUG OFF does not autosave): DEBUG SAVE

DEFRouter

Set default router.

```

DEFROUTER [device_num ip_address]
  device_num - specified Ethernet device [0]
  ip_address - IP address in dot decimal notation
  no parameter - displays current value

```

DELETEDOMAINGroup

Delete a domain group that was previously added to this control system

No help available for this command.

DELETEGroup**Delete an existing local group**

No help available for this command.

DELETEUser**Delete an existing local user**

No help available for this command.

DELLICense**Delete application(s) license.**

DELLICENSE {[VENDORID] [MODULEID]} | [ALL] - delete license key
VENDORID - vendor id, valid range (1...65535)
MODULEID - module id, valid range (0...65535)
ALL - delete all license keys

DELeTe**Remove file(s)**

DELETE filesearchstring
filesearchstring - search string which may contain wildcards

DHCP**Enable/disable dynamic IP addressing.**

DHCP [device_num [ON | OFF | REL_RENEW]]
ON - enables DHCP for device_num
OFF - disables DHCP for device_num
REL_RENEW - performs a DHCP release and renew for device_num
No parameter - displays current setting for all devices

DHCPopt**Sets DHCP Server Options**

DHCPopt [HOSTNAME | FQDN]
HOSTNAME - Send Local HostName in DHCP Discover Request - Default Option
FQDN - Send the Fully Qualified Domain Name in DHCP Discover Request
No parameter - displays current setting

DIR**List files and directories in current directory**

DIR filesearchstring
filesearchstring - search string which may contain wildcards

DOMAINNAMEEx**Set the domain name for multiple adapters**

DOMAINNAMEEX [device_num domain | /CLEAR]
device_num - Specified ethernet device[0..3]
domain - ASCII string containing domain name
/CLEAR - clears the value
No parameter - displays current value

DOMAInname**Set the domain name for DNS environment**

DOMAINNAME [string | /CLEAR]
string - ASCII string containing domain name
/CLEAR - clears the value
No parameter - current value

DUMPCOMCAPS**Dumps comp port HW capabilities**

DUMPCOMCAPS [COMPORTNUMBER]
Dumps HW capabilities for the specified COMPORT.

ECHO**Enable/disable character echoing**

ECHO [ON | OFF]
No parameter - displays current setting

EDEBUG**Set/View run-time ethernet debug options**

Valid options are:

GATEWAY [ON/OFF] - turns Gateway Server extended debugs on and off
ZPANEL [ON/OFF] - turns ZPanel Server extended debugs on and off
ESLAVE [ON/OFF] - turns eslave client debug on and off
[ON/OFF] - turns all debug on and off

To use debug:

- enable all debug outputs: EDEBUG ON
- Specify what Logic App to debug: AENTRY [Application ID]
- Specify what Logic App and IPTable Entry to debug: SENTRY [Application ID] [CIP ID]
- Specify what Logic App to remove from debug: RAENTRY [Application ID]
- Specify what Logic App and IPTable Entry remove from debug: RSENTRY [Application ID] [CIP ID]
- To kill debugs: EDEBUG OFF

ENABLEFEature

Enable/disable optional features

ENABLEFEATURE <FEATURE> [ON, OFF]

FEATURE - Feature to be enabled/disabled or ALL
ON - start feature when system boots
OFF - do not start feature when system boots
feature by itself shows current state for next boot

ERASE

Remove file(s)

ERASE filesearchstring

filesearchstring - search string which may contain wildcards

ERRlog

Prints the current error log.

ERRLOG {OK | NOTICE | WARNING | ERROR | FATAL}

OK - print all OKs and above
NOTICE - print all notices and above (default)
WARNING - print all warnings and above
ERROR - print all errors and above
FATAL - print all fatal errors and above
No parameter: Same as "ERRLOG NOTICE"
PLOGALL - print persistent log for both previous and current session
PLOGCURRENT - print persistent log for current session
PLOGPREVIOUS - print persistent log for previous session

ETHERNET

Enable/disable Ethernet

ETHERNET [ON | OFF]

No parameter - displays current setting

ETHERNETADAPTER

Enable/Disable Ethernet Adapters

ETHERNETADAPTER [ENABLE [Adapter Id] | DISABLE [Adapter Id] | LIST]

Command used to enable/disable specified Adapter Id
? Display this help message
ENABLE - Enable specified adapter Id
DISABLE - Disable specified adapter Id
LIST - List adapter Information in tabular format
No Parameter - Display this help message

ETHWdog

Enable/disable Ethernet Watchdog.

ETHWDOG [ON | OFF]

ON - turn on Ethernet watchdog
OFF - turn off Ethernet watchdog
No parameter - display current watchdog status

EWDGCONFIG

Configure Ethernet Watchdog.

EWDGCONFIG [-SA:SampleInterval] [-SD:ShutdownInterval] [-RC:RxPacketTripCount] [-MS:MaxShutdownIntervalCount]

-SA: - watchdog sample interval in millisecond
-SD: - RX shutdown interval in millisecond
-RC: - minimum RX packet received per watchdog sample interval before trip
-MS: - maximum number of shutdown intervals allowed per shutdown
No parameter - display current watchdog settings

FGETfile

Uses built-in (S)FTP/HTTP(S) client to transfer file from the server to ROM

FGETfile [url] [local_path] {username:password} {proxy}

url - fully qualified URL to the file being downloaded from the server
local_path - destination path to the file in the ROM
username:password - optional access credentials to the server
proxy - optional proxy in the form of url

FORCEDREBOOT	Forces system reboot
FORCEDREBOOT - reboot system	
FORMAT	Format external memory card
FORMAT [index] index - index of the external removable memory disk to be formatted (e.g. if index = 2, \RM2 will be formatted) if index not specified, \RM will be formatted.	
FPUTfile	Uses built-in (S)FTP/HTTP(S) client to transfer file from ROM to the server
FPUTfile [url] [local_path] {username:password} {proxy} url - fully qualified URL to the file being uploaded to the server local_path - path to the source file in the ROM username:password - optional access credentials to the server proxy - optional proxy in the form of url	
FREE	Show available file space
FREE - Indicates free disk space	
FTPSErVer	Enable/disable the FTP Server
FTPserver [OFF ON] No parameter - displays current state	
GETAUDITLOG	Retrieve the audit log.
No help available for this command.	
GETCODE	Retrieve code needed for eControl2 activation
GETCODE Retrieves code needed for eControl2 activation.	
GETIPTABLE	Transfer the IP table from Internal flash
GETIPTABLE [program] program - which program the table is for (default = 1)	
GETPASSwordrule	Get password rules for local users
GETPASSWORDRULE No parameters needed.	
HEARTBEATtimeout	Set TCP Socket Send Timeout value in Milliseconds
HEARTBEATTIMEOUT [timeoutInMilliSeconds] timeoutInMilliSeconds - Timeout before sending a CIP heartbeat to the peer if no messages are received from the peer. Default val seconds. No parameter - displays current setting	
HELP	Display help screens
HELP - Detailed help available. Type a command followed by a space and '?' to see options for that command (i.e. HELP ?) HELP ALL will display a list of all commands. HELP Device will display a list of commands specific to this device. HELP ETHERnet will display a list of Ethernet commands. HELP FILE will display a list of commands for file operations. HELP SYSTEM will display a list of general system commands. HELP RF will display a list of commands for the radio chip if available. HELP OSD will display a list of commands for the on-screen-display if available. HELP RAVA will display a list of commands for RAVA VOIP if available. HELP BACNET will display a list of commands for the BACNET stack if available. HELP USER will display a list of commands added to the system by user programs. HELP CRESTIMERENG will display a list of commands for the Crestron Timer Engine. HELP xxx* will display a list of commands starting with xxx.	
HOSTname	Set the host name for DNS environment

HOSTNAME [string | /CLEAR]
string - ASCII string containing host name (max 15 chars)
/CLEAR - clears the value
No parameter - current value

ICMP

Enable/disable ICMP ping

ICMP [ON | OFF]
No parameter - displays current setting

ICMPREDIRECT

Enable/disable ICMP Redirect

ICMPREDIRECT [Enable | Disable]
Enable Disable ICMP Redirect.
No parameter - displays current setting

INFO

Print Software Capabilities

INFO
No parameters

INITIALIZE

Clear file system

INITIALIZE
No parameter

IPAddress

Set IP address.

IPADDRESS [device_num ip_address]
device_num - specified Ethernet device [0]
ip_address - IP address in dot decimal notation
No parameter - displays current value

IPCONFIG

Display/Configure IP Settings

usage : ipconfig [/all | /renew [adapter index] | /release [adapter index]] /flushdns
? Display this help message.
/all Display full configuration information.
/release Release the IP address for the specified adapter
/renew Renew the IP address for the specified adapter
/flushdns Clear the name resolution client cache
The default is to display only the IP address, subnet mask and default gateway for each adapter bound to TCP/IP.

IPMask

Set IP Subnet Mask.

IPMASK [device_num ip_address]
device_num - specified Ethernet device [0]
ip_address - IP address in dot decimal notation
No parameter - displays current value

IPTable

Display IP Table

IPTABLE [-P:program] [-T] [-I:id] [-C] [-O]

-I:id: ID to display entry for
-P:program: ALL or # of programs's IP table to show
-T Display data in a tabular format
-C Clears the IP Table for the specified program. Requires -P option
-O Displays only offline devices
No Arguments shows IP Table for program 1

ISDIR

Is the parameter a directory

ISDIR directory
directory - string containing directory specification

ISTAT

(*) Check Internal Status of Program

```

ISTAT[:program#] {Parameters}
  program#: number of program to execute. (default=1)
  ISTAT SIG - Show internal status on signals.
  ISTAT PROG [-Q] - Show internal status on program, -Q=Do Not List Symbols
  ISTAT SYM {number} - Show internal status of specified symbol
  ISTAT DEV - Show devices in system only.
  ISTAT REGDEV - Show successfully registered devices in system only.
  ISTAT LIST {number} - List all occurrences of compiler code {number} in the program.
  ISTAT SHOWDEBUG {number} - Show Debug Info for symbol {number} in the program.
  ISTAT SYMQUE - Show number of entries in symbol input queue for devices that have them.
  ISTAT PSTRINGS - Show size of each perm. string & total space for all fixed strings.
  ISTAT TREE {number} - Show children and helpers of this symbol.
  ISTAT ABILITY {number} - Show abilities of this symbol.
  ISTAT MAINLOOP - Show main loop counter.
  ISTAT OVERHEAD - Show some symbol data overhead.
  ISTAT SCHED - Scheduler Dump.
  ISTAT SPLUS {TASKSTAT name} - Show SIMPL Windows S# for the given SIMPL+ TASKSTAT taskname
  ISTAT WAVELIST - Show last symbols processed
                    (Use LOGICDEBUG WAVESTORE command to change size)

```

JOINGETINAnalog

Read Analog Input Joins to Console

Xact# slot#[.subslot#...] join#1...[join#N]

JOINGETINDigital

Read Digital Input Joins to Console

Xact# slot#[.subslot#...] join#1...[join#N]

JOINGETINSerial

Read Serial Input Joins to Console

Xact# slot#[.subslot#...] join#

JOINGETINParam

Read Integer Params to Console

[type]
Xact# slot#[.subslot#...] join#1...[join#N]

JOINGETOUTAnalog

Read Analog Output Joins to Console

Xact# slot#[.subslot#...] join#1...[join#N]

JOINGETOUTDigital

Read Digital Output Joins to Console

Xact# slot#[.subslot#...] join#1...[join#N]

JOINGETOUTSerial

Read Serial Output Joins to Console

Xact# slot#[.subslot#...] join#

JOINGETSERparam

Read Serial Params to Console

Xact# slot#[.subslot#...] join#1...[join#N]

JOINMONITORSlot

Start/Stop TJI monitor

JoinMonitorSlot - Valid Options are
 JoinMonitorSlot ? - Display this help
 JoinMonitorSlot - Display current list of slots being monitored
 JoinMonitorSlot [transactionId] #slot[.subslot]...
 JoinMonitorSlot STOP ALL - Remove all slots
 JoinMonitorSlot STOP [transactionId] - Remove Specified slot

JOINSETANALOG16

Set Analog Joins from Console for 16 bit Ethernet Id Devices

JOINSETANALOG16 - Direct Signal Write.
 [type] slot#[.subslot#...] join#1=val#1 ...[join#N=val#N]
 Type could be
 TYPE01 - Sends Analog Packet
 TYPE14 - Sends New Analog Packet
 Only for 16 bit ethernet IP Id's

JOINSETANalog

Set Analog Joins from Console

JOINSETANALOG - Direct Signal Write.
 [type] slot#[.subslot#...] join#1=val#1 ...[join#N=val#N]
 Type could be
 TYPE01 - Sends Analog Packet
 TYPE14 - Sends New Analog Packet

JOINSETDIGITAL16

Set Digital Joins from Console for 16 bit Ethernet Id Devices

JOINSETDIGITAL16 - Direct Signal Write.
 slot#[.subslot#...] join#1=val#1 ...[join#N=val#N]
 Only for 16 bit ethernet IP Id's

JOINSETDligital

Set Digital Joins from Console

JOINSETDIGITAL - Direct Signal Write.
 slot#[.subslot#...] join#1=val#1 ...[join#N=val#N]

JOINSETINTparam

Send Integer Parameter from Console

JOINSETINTPARAM - Direct Signal Write.
 [type] slot#[.subslot#...] param#1=val#1 ...[param#N=val#N]
 Type could be
 TYPE09 - Sends 16 bit Parameters
 Default are 32 bit parameters

JOINSETPacket

Send Any Packet from Console

JOINSETPACKET - Direct Signal Write.
 slot#[.subslot#...]["[ASCII_string]"] | [hex_byte_1...hex_byte_N]

JOINSETSERIAL16

Send Any Packet from Console for 16 bit Ethernet Id Devices

JOINSET16XXX Command failed

JOINSETSERParam

Send Serial Parameter from Console

JOINSETSERPARAM - Direct Signal Write.
 slot#[.subslot#...] param# ["[ASCII_string]"] | [hex_byte_1...hex_byte_N]

JOINSETSERial

Send Any Packet from Console

JOINSETSERIAL - Direct Signal Write.
 [type] slot#[.subslot#...] ["[ASCII_string]"] | [hex_byte_1...hex_byte_N]
 Type could be
 TYPE12/ type12 - Sends Multi Serial Packet
 TYPE15/ type15 - Sends Extended Serial Packet

KILLSOCKET

Close an active TCP console socket

KILLSOCKET [CTPx | TELNETx | SCTPx | SHELLx]
 CTPx - kill CTP console #x
 TELNETx - kill Telnet console #x
 SCTPx - kill SCTP console #x
 SHELLx - kill SHELL (SSH) console #x

LIGHTBYPPN

start squack mode

Valid options are:
Status if no arguments

Syntax: LIGHTBYPPN [4 byte Hex Adr]|ALL

LIGHTBYTSid

Set device into light by TSID mode

Enter Light by TSID mode
LIGHTBYTSID [TSID|ALL]
TSID - device TSID <#####>
ALL - all devices
no parameter - all devices

LIGHTBYUID

Set device into light by UID

Enter Light by UID mode
LIGHTBYUID [UID|ALL]
UID - device UID <#####>
ALL - all devices
no parameter - all devices

LISTBLOCKEDip

List the blocked IP addresses

No help available for this command.

LISTDNS

Display the list of DNS servers

shows current DNS servers - no parameters needed

LISTDOMAINGroups

List domain groups that were added to this control system

No help available for this command.

LISTENSTAT

Generate a report of the Ethernet listen sockets

LISTENSTAT
No Parameter necessary

LISTGROUPS

List existing local groups

No help available for this command.

LISTGROUPUsers

List all existing (local and domain) users in an existing local group

No help available for this command.

LISTUSERS

List of users authenticated on this system

No help available for this command.

LOADIPTABLE

Load New IPTable

LOADIPTABLE -p:[AppId] [path] Loads program specific DIP file from removable media to the internal \sys directory
-P:Specific Program Identifier
path - path on removable media including "\",
e.g \RM\TmpDir or \RM2\dipDir
Example: LOADIPTABLE -p:1 \RM\dipDir
Note: program MUST be restarted for new IPTABLE to take effect

LOCATION

Location latitude, longitude and city country.

Location for astronomical events
LOCATION -LAT:Latitude -LON:Longitude -LOC:CityCountry
-LAT: Latitude north <##.###> or latitude south <-##.###>
-LON: Longitude east <##.###> or longitude west <-##.###>
-LOC: City country

LOGGER

(*) Turn the logger on, off, or change the operation mode

LOGGER[:program#] {ON|OFF|STANDBY} {DEBUGLEVEL} {ONLY} {LOGGERMODE}
 Turn the Logger on or off
 program#: number of program to execute. (default=1)
 ON - Initialize the Logger; must specify DEBUGLEVEL.
 OFF - Disable the Logger
 STANDBY - Silence the Logger temporarily. No messages will be printed/logged.
 {DEBUGLEVEL}- Desired Debug Level if turning Logger on. (excepted range 1-10)
 {ONLY}- Optional parameter if only one Debug Level is to be handled.
 {LOGGERMODE} = {RM, CONSOLE, DEFAULT, RM/CONSOLE}- Optional parameter to specify the mode of the Logger.

LOGGERBuffersize

(*) Set or show the Logger Buffer Size

LOGGERBUFFERSIZE[:program#] {BUFFERSIZE}
 View or change the Logger Buffer Size
 program#: number of program to execute. (default=1)
 BUFFERSIZE - Desired Logger Buffer Size in Kilobytes(KB).
 Maximum Buffer Size Allowed: 500KB

LOGGERClear

(*) Clear the Logs for the Specified Program

LOGGERCLEAR[:program#] {ALL}
 Clear the log for the specified program.
 program#: number of program to execute. (default=1)
 {ALL} - Optional parameter to clear all the logs, including all backup logs.

LOGGERDebuglevel

(*) Set or show Logger debug level

LOGGERDEBUGLEVEL[:program#] [DEBUGLEVEL] {ONLY}
 View or change the Logger Debug Level
 program#: number of program to execute. (default=1)
 [DEBUGLEVEL] - Desired Logger Debug Level(1-10)
 {ONLY} - Include after DEBUGLEVEL to Log only this level.

LOGGERFlush

(*) Flush the current buffer to RM

LOGGERFLUSH[:program#]
 Flush the current buffer to RM
 program#: number of program to execute. (default=1)
 {No Parameters}

LOGGERMode

(*) View or change the Logger Mode

LOGGERMODE[:program#] {DEFAULT | RM | CONSOLE | RM/CONSOLE}
 View or change the Logger Mode
 program#: number of program to execute. (default=1)
 BUFFERSIZE - Desired Logger Buffer Size in Kilobytes(KB).
 Maximum Buffer Size Allowed: 500KB

LOGGERNumbackuplogs

(*) Set or show the Number of Backup Logs desired

LOGGERNUMBACKUPLLOGS[:program#] {NUMBACKUPLLOGS}
 View or change the desired number of backup logs for the Logger
 program#: number of program to execute. (default=1)
 NUMBACKUPLLOGS - Desired number of Backup logs to keep
 Maximum number of backup files (*.bac) allowed: 10

LOGGERPrint

(*) Print the current log to the console

LOGGERPRINT[:program#] {ALL}
 Print recent messages in the Log to the console.
 program#: number of program to execute. (default=1)
 ALL - Optional parameter to print the entire log.

LOGICDebug

(*) Set Logic debug Options

LOGICDEBUG {Parameters}

	Current State
LOGICDEBUG LOGIC ON OFF	- Logic info
LOGICDEBUG SKEDDER ON OFF	- Event Scheduler info
LOGICDEBUG ANSKEDDER ON OFF	- Analog Event Scheduler info
LOGICDEBUG VALIDATESKED ON OFF	- Validate Scheduler Nodes
LOGICDEBUG VALIDATESKED ON OFF	- Validate Scheduler Nodes (Requires Custom Firmware)
LOGICDEBUG SYMPROC ON OFF	- Show Symbols as Processed
LOGICDEBUG CLDL ON OFF	- CLDL info
LOGICDEBUG MBUFFER ON OFF	- MBUFFER info
LOGICDEBUG RAMP ON OFF	- RAMP info
LOGICDEBUG DELAY ON OFF	- DELAY info
LOGICDEBUG TXTIME ON OFF	- Show time before/after packet transmission to driver
LOGICDEBUG ABUFFER ON OFF	- ABUFFER info
LOGICDEBUG SMEM ON OFF	- SMEM info
LOGICDEBUG PRESETV ON OFF	- PRESETV info
LOGICDEBUG MMCLAMP ON OFF	- MMCLAMP info
LOGICDEBUG MMSCALER ON OFF	- MMSCALER info
LOGICDEBUG MSLAVE ON OFF	- MasterSlave symbol info
LOGICDEBUG SYMSIGPROC ON OFF	- Show signals changed for symbols being processed
LOGICDEBUG CLOCKDRIVER ON OFF	- Clock Driver Debug
LOGICDEBUG UPREQ ON OFF	- Debug update request
LOGICDEBUG SHOWREG ON OFF	- Show extended registration info
LOGICDEBUG SHOWBOOT ON OFF	- Show extended logic startup/shutdown info
LOGICDEBUG PAGEUPDATE ON OFF	- Show info about Page update requests
LOGICDEBUG BUILDIFOFFLINE ON OFF	- Ignore m_uiOnlineState when building packet
LOGICDEBUG TLDMTXINFO ON OFF	- More info about built packets to TLDM
LOGICDEBUG MEMTRACK ON OFF	- Memory Size Tracking
LOGICDEBUG SIGMEMTRK ON OFF	- Memory Size Tracking
LOGICDEBUG SENDTOTLDMTIMEOUT {time}	- Timeout sending to TLDM in ms
LOGICDEBUG MAXWAVESINSOLUTION {size}	- Number of Waves per Logic Solution
LOGICDEBUG MAXTRANSPERWAVE {size}	- Number of Signal transitions per wave
LOGICDEBUG SYMQUEUEDEPTH {size}	- Depth of the Symbol Input Queue
LOGICDEBUG SPLUSQUEUEDEPTH {size}	- Depth of SIMPL+ Symbol Input Queue
LOGICDEBUG TRANSIENTHEAP {size}	- Transient Heap Size in bytes
LOGICDEBUG REGTIMEOUT {time}	- Timeout for Registration Event in ms
LOGICDEBUG ACTLOGEVENTCOUNT {number}	- Number of events to pay attention to in the Logic Activity Logger
LOGICDEBUG ACTLOGSIZE {number}	- Size of the Logic Activity Logger
LOGICDEBUG ACTLOGPRIORITY {priority}	- Priority of the Logic Activity Logger
LOGICDEBUG ACTLOGSCREEN ON OFF	- Dump Logic Activity Logger to Screen on fault
LOGICDEBUG ACTLOGNOFILE ON OFF	- Avoid dumping Logic Activity Logger to file on fault
LOGICDEBUG SCHEDNODES {size}	- Number of Loopnodes in the Scheduler
LOGICDEBUG REPORTNODES {size}	- Report if more than this number loopnodes exceeded before servicing scheduler
LOGICDEBUG RCBCHECK {size}	- Set the number of passes before servicing analogs in the scheduler
LOGICDEBUG TIMEREPORT {size}	- Set the number of ms required to pass before posting the time to execute RunLoopNodeCheck
LOGICDEBUG SHOWRLTIME ON OFF	- Show time between Run Main Loop
LOGICDEBUG RMLTIME {size}	- Min Time needed to print the Run Main Loop time
LOGICDEBUG SHOWSSQTIME ON OFF	- Show time for Single Step Queue Solution
LOGICDEBUG SSQTIME {size}	- Min Time needed to print the Single Step Queue Solution time
LOGICDEBUG SHOWMSQTIME ON OFF	- Show time for Multi Step Queue Solution
LOGICDEBUG MSQTIME {size}	- Min Time needed to print the Multi Step Queue Solution time
LOGICDEBUG SHOWSIQTIME ON OFF	- Show time for Symbol Input Queue Solution
LOGICDEBUG SIQTIME {size}	- Min Time needed to print the Symbol Input Queue Solution time
LOGICDEBUG ALL ON OFF	- Turn on/off all of the above.
LOGICDEBUG LGC ON OFF	- Turn on/off LOGIC, SYMPROC, SYMSIGPROC.

LOGMESSg

(*) Write a message to the log from the console

LOGMESSAGE[:program#] {DEBUGLEVEL} {MESSAGE}
 Write a message to the log from the console
 program#: number of program to execute. (default=1)
 DEBUGLEVEL (expected range 1-10).
 MESSAGE - String to write to log.

LOGOFF

Logs the currently authenticated user out of the system

Logs the currently authenticated user out of the system

MAKEDIR

Create a Directory

MAKEDIR directory
 directory - string containing directory specification

MDGBSIGnal

(*) Set/view Debug flags and signal values


```

MDBGSIGNAL[:program#] {Parameters}
  program#: number of program to execute. (default=1)
  MDBGSIGNAL -R - Turn off all debug flags (Global, Signal specific, and Ignore)
  MDBGSIGNAL -A:ON - Turn on Global debug flag
  MDBGSIGNAL -A:OFF - Turn off Global debug flag
  MDBGSIGNAL -A:SHOW - Show global & signal debug status
  MDBGSIGNAL -A:SYNC - Write values of non-zero digital & analog signals, non-transient serial strings
  MDBGSIGNAL -S:ON {signal(s)} - Turn on signal-specific debug flag for signal {signal}
  MDBGSIGNAL -S:OFF {signal(s)} - Turn off signal-specific debug flag for signal {signal}
  MDBGSIGNAL -S:SHOW {signal(s)} - Show status of signal-specific debug flag & ignore flag for signal {signal}
  MDBGSIGNAL -S:SYNC {signal(s)} - Show value of signal {signal}
  MDBGSIGNAL -I:ON {signal(s)} - Turn on ignore-global debug flag for signal {signal}
  MDBGSIGNAL -I:OFF {signal(s)} - Turn off ignore-global debug flag for signal {signal}
  {signal(s)} is a single Hex number (i.e. 0x0014) or a decimal number (i.e. 20) or
  a list of space separated numbers. To specify a range, put two signal(s) separated by a colon
  i.e. 0x14:0x20 would perform the operation for signals 0x14 through 0x20 inclusive.
  Multiple single numbers and multiple ranges are allowed.

```

MIPTable

Display Master IP Table

```
MIPTABLE [-T]
```

```
-T Display data in a tabular format
No Arguments. Shows IP Table for Master Entry
```

MOVEfile

Move a file to a different directory

```
MOVEFILE sourcespec destspec
sourcespec - source file name specification (could be relative to current dir)
destspec - destination file name specification (could be relative to current dir)
filenames with embedded spaces must be enclosed in double quotes("The File")
```

MUTEAUDIO

Mute Audio Output

```
MUTEAUDIO [ON | OFF]
No Parameter - displays current settings
```

MYCRESTRON

Setup MyCrestron Domain & Password, and attempt to register system

```
Format: MyCrestron DOMAIN PASSWORD
DOMAIN - sets MyCrestron domain
PASSWORD - sets MyCrestron password
No parameter - displays current setting
```

NETSTAT

Displays protocol statistics and current TCP/IP network connections

```
usage : netstat
? Display this help message.
The default is to displays all connections and listening ports.
```

NUMNOHBRESPONsecnt

Set maximum number of no response allowed for CIP Heartbeat Messaging

```
NUMNOHBRESPONSECNT [count]
count - Number of times we do not receive a response to the CIP heartbeat before we close the socket. Default value is 3.
No parameter - displays current setting
```

NVRAMCLEAR

Clear NVRAM with zeros

```
NVRAMCLEAR [-P:ALL | -P:Specific Program Identifier] [-D]
-P: Clear NVRAM for a specific program or ALL programs. If not present, ALL assumed.
-D: Deallocate NVRAM memory.
```

NVRAMGET

Retrieve contents of NVRAM from the system

```
NVRAMGET [-P:ALL | -P:Specific Program Identifier]
-P: Get NVRAM for a specific program or ALL programs. If not present, ALL assumed.
```

NVRAMPUT

Send contents of NVRAM to the system

```
NVRAMPUT [-P:ALL | -P:Specific Program Identifier]
-P: Put NVRAM for a specific program or ALL programs. If not present, ALL assumed.
```

NVRAMREBOOT

Print reboot information

NVRAMREBOOT [SHOW]
SHOW - display the last reboot message in NVRAM

OSD

start On Screen Display when boot

OSD [ON, OFF]
ON - start on screen display when system boots
OFF - do not start on screen display when system boots
no arguments shows current state

PACKET

(*) Send custom packets through the RAD tools.

PACKET - Creates/Sends packets
Syntax: PACKET [-B] [-S:C|-S:E|-S:S] [-F:form] [-P] [-I:{ID}] [-T:{Type}] {Packet Specific Data}

Options:
-B: Build a packet using {packet options}
-S:C: Send completed packet via main cresnet
-S:E: Send completed packet via main Ethernet
-S:S: Send completed packet to a slot
-F:form: Use Form "form" to build the packet.
-I: Device ID (or list for wrapping)
ex: -I:0xAA, -I:15, -I:0xAA.0xBB.0xCC (AA, BB are wrapped, CC is the inner packet)
-T: Packet Type
0x00 ("DIGITAL") - Digital
0x01 ("ANALOG") - Analog
0x14 ("SYMANALOG") - Symmetric Analog
0x1C ("GENCFG") - Generic Device Config
0x1D ("CLXRCB") - CLX RCB
0x1E ("GENRCB") - Generic RCB
ex: -T:0x01 or -T:"ANALOG" to specify Analog type.
To get {Packet Specific Data}, do "PACKET -T:{Type} ?"

PASSTHRU

Enter passthru mode console<->device

Valid options are:
any number allowed as argument
CRESnet - cresnet device
ETHERnet - CIP or Client/Serv
SLOT - any sys slot
COM - build-in com
IR - one-way IR
H/W - hardware handshake
S/W - software handshake
232 - RS232 mode

PASSTO

Enter passto mode console<->device

Valid options are:
CRESnet - Passto Over Cresnet
IPID - Passto Over IP
SLOT - plug-in card
CONSOLE - console mode
hex number allowed as argument
Status if no arguments

PAUSEPROGRAM

Pauses Specified Program

PAUSEPROGRAM {-P:ALL | -P:Specific Program Identifier}
-P: Pause a specific program or ALL. If not present, ALL assumed.

PERSISTENTLOG

Start PersistentLog on system boot

PersistentLog [ON, OFF]
ON - Start PersistentLog on system bootup
OFF - Do not start PersistentLog on system bootup
No arguments - Shows current state

PING

Ping Remote Node

Usage: ping [-n count] [-i TTL] [-v TOS] [-w timeout] address

Options:

-n count Send count.
-i TTL Time to live.
-v TOS Type of service
-w timeout Timeout (in milliseconds)
-r count Record route for count hops.
-s count Timestamp route for count hops.
-S address Source address to use (IPv6-only).
-4 Force using IPv4.
-6 Force using IPv6.

PLAYAUDIO

Play specified file

PLAYAUDIO [FileName]
FileName - File To Play. Format supported is WAV/WMA/MP3
FileName is of format \sub_dir\filename
Example - \temp\test.mp3 or \windows\asterisk.wav

PPNDISCOVER

Show all PPN devices on cresnet

PPNDISCOVER

PRINTAUDITLOG

Print the audit log.

No help available for this command.

PROGCOMments

(*) Shows program Comments

PROGCOMMENTS[:program#]
program#: number of program to execute. (default=1)
No arguments necessary.

PROGINFO

(*) Show Program Statistics

PROGINFO[:program#] {No arguments}
program#: number of program to execute. (default=1)
Shows program information.

PROGLOAD

Loads the specified program

PROGLOAD {-P:ALL | -P:Specific Program Identifier} {-N} {-D} {-X}
-P: Load a specific program or ALL. Must be specified.
-N If present, will not update the IP Table
-D If present, will not start the program - just register it.
-X If present, will not fail for tools/firmware compatability issues.

PROGREAdy

Sends the program ready status

PROGREADY
No parameter needed - displays current program ready status

PROGREGister

Registers/Unregisters the specified program

PROGREGISTER {-P:ALL | -P:Specific Program Identifier} [-U] [-C:SSPDllName]
-P: (Un)Register the specified program or ALL
-U: if present, will unregister the program
-C: if present, indicates the entry point for a Simpl Sharp PRO program - (This is the name of the Simpl Sharp PRO DLL)
no arguments lists which programs are registered

PROGRESet

Restarts the specified program

PROGRESET {-P:ALL | -P:Specific Program Identifier} {-V} {-D}
-P: Reset a specific program or ALL. If not present, ALL assumed.
-V: Verbose reset.
-D: Don't keep DBG SIGNAL information (PROGRESET normally preserves DBG SIGNAL flags).

PROGUPTIME

(*) Display the time the program is running

PROGUPTIME[:program#]
program#: number of program to execute. (default=1)
No arguments necessary.

RAMFree

Show available RAM file space

RAMFREE
no parameters needed

RCONsole

Send Command to Remote console

rcon [cresnet] [hexID][.subslot hexSlot..][slot decSlot] [command string]

READI2C

Read i2c data

READI2C [device] [subaddr] [number of bytes in dec] - Read I2C device
device - device index, range <0..2>
subaddr - sub-address in hex, e.g. register addr

device	name
00	EEPROM-AT24C128N
01	VIDEO_DECODER-CH7026
02	RTC-M41T60

REBOOT

Perform system reboot

REBOOT - reboot system

REMBLOCKEDip

Remove an IP Address from the blocked list

No help available for this command.

REMDns

Remove an entry to DNS server List

REMDNS ip_address
ip_address - IP address in dot decimal notation

REMMaster

Remove a master entry to IP table

Format: REMMaster cip_id ip_address/name
cip_id - ID of the CIP node (in hex)
ip_address/name - IP address in dot decimal notation
- or name of the site for DNS lookup

REMOTESYSlog

Enable/disable remote system logging of errors.

REMOTESYSLOG [-S:] {-E:} {-A} [-I:address] [-P:port]
-S:ON|OFF Enable or disable Remote System Error Logging
-E:OK|INFO|NOTICE|WARNING|ERROR|FATAL
OK - log to Syslog all OKs and above
INFO - log to Syslog all info and above
NOTICE - log to Syslog all notices and above (default)
WARNING - log to Syslog warnings and above
ERROR - log to Syslog errors and above
FATAL - log to Syslog fatal errors and above
-A Log to Syslog contents of the Audit log provided that Audit Logging is enabled.
-I:address Remote Syslog server IP address in dot decimal notation or
ASCII string containing the server host name (max 255 chars)
-P:port Remote Syslog server port number in decimal
No parameter - displays current setting

REMOVEDIR

Remove a Directory

REMOVEDIR directory
directory - string containing directory specification

REMOVETBCLIENT

Removes Console Client Configuration

REMOVETBCLIENT
Removes console client configuration

REMOVEUserfromgroup	Remove an existing local or domain user from an existing local group
No help available for this command.	
REMPeer	Remove a peer(slave) entry to IP table
Format: REMPeer cip_id ip_address/name [-D:device_id] [-C:cipport] [-P:program] cip_id - ID of the CIP node (in hex) ip_address/name - IP address in dot decimal notation - or name of the site for DNS lookup device_id - ID in device redirection table (in hex) (must be < 256) port number - port number for the connection (in dec) (must be > 256) program - program number which uses device (in dec) (default 1)	
REPORTCRESNET	Show all devices on the main cresnet leg
REPORTCRESNET [<HEX ID>] [ALL] Display all cresnet devices / Single cresnet device	
REPORTPPNTABLE	Displays Cresnet PPN table if available
Displays Cresnet PPN table if available	
REPortnetdev	Display infiNET EX and ER device idstrings
Identify infiNET EX device(s) connected REPORTNETDEV No parameters	
RESETPassword	Reset an existing local user's password
No help available for this command.	
RESTORE	Restore factory defaults
RESTORE No parameter	
RESUMEPROgram	Resumes Specified Program
RESUMEPROGRAM {-P:ALL -P:Specific Program Identifier} -P: Resume a specific program or ALL. If not present, ALL assumed.	
RFDEBug	Enable/Disable RF Debug
Display or set rf debug trace settings RFDEBUG [RFRX RFTX CTRL DEV ALL RFID] [ON OFF LEVEL] RFRX - rf receive trace RFTX - rf transmit trace CTRL - control communication trace DEV - development trace ALL - turn ON/OFF/LEVEL all traces LEVEL - debug level 1..3(bitmask for DEV option) RFID - rfid to turn on/off RX/TX traces for particular device Current Debug settings RFRx trace: OFF RFTx Trace: OFF CTRL trace: OFF DEV trace: OFF	
RFDEvinfo	Display rf devices information
Display ER device data fields RFDevInfo [RFID TSID UID ALL] [FIELD] RFID - device RFID, valid RFIDs [3..FE] TSID - device TSID [#####] UID - device rf unique identifier, UIDs [#####] ALL - all device(s) FIELD - ALL for all fields or data field number 0..15 (in decimal)	
RFROAMING	Display or set rf roaming support

This command enable or disable gateway roaming support.

RFROAMING [ON|OFF]

ON - Roaming enabled.

OFF - Roaming disabled.

No parameter - displays current setting.

RFTElec

Execute RF TELECOM tests

RFTELEC [mode] [channel] [power] [num_packets] [packet_length]

mode - set test mode

0=stop test

1=TX pseudo random pattern

2=RX continuous

3=TX 101010 pattern

4=TX unmodulated carrier

5=TX with seed : [channel][power][num_packets][seed]

6=RX with seed : [channel][seed][time in seconds]

channel - test channel 11..26 (in decimal)

power - rf power level 0..255 (in decimal)

num_packets - number of packets to send (used only for mode 3)

packet_length - number of bytes in the packet (used only for mode 3)

RI2Cgen

Read i2c data

RI2CGEN [bus] [adr] [sub] [sublen] [dec num_bytes_to_read] - show I2C data

bus - i2c bus, in decimal, range <1..3>.

adr - i2c address, hex bytes.

sub - i2c sub address hex bytes, e.g. register addr

sublen - sub address len 0..4 bytes.

num_bytes_to_read - number of bytes to read in decimal.

RMLOGerr

Enable logging errors to the file.

RMLOGERR [OFF|ON] -F:{Filename} -S:{MaxSize} -N:{MaxNumOfFiles} {OK | NOTICE | WARNING | ERROR | FATAL}

-F:{Filename}: Filename is name of the Log file (must include the path and '.log' as file extension)

-S:{MaxSize}: MaxSize is between 262144 and 5242880 bytes

-N:{MaxNumOfFiles}: MaxNumOfFiles is between 1 and 10

OK - log to file all OKs and above

INFO - log to file all info messages and above

NOTICE - log to file all notices and above (default)

WARNING - log to file warnings and above

ERROR - log to file errors and above

FATAL - log to file fatal errors and above

RMTRANSfer

Transfer a project to/from removable media

RMTRANSFER {-P:Specific Program Identifier} FROM|TO path {IPT}

FROM|TO - indicates whether transferring from/to removable media

path - path for the project on removable media. (RM\Simpl\AppXX)

IPT - Copy the IPTABLE also if exists

Note: program MUST be stopped to transfer

ROUTESYMSTAT

(*) Check connection status of route symbols

ROUTESYMSTAT displays crosspoint connections

syntax: ROUTESYMSTAT [-C:ControlId] [-E:EquipId]

Options:

-C: Control Id number 0-65535, displays all crosspoints for the specified Control Id

-E: Equipment Id number 0-65535, displays all crosspoints for the specified Equipment Id

No Options: display all crosspoints

RPRTCRESNETIDBYPPN

Report cresnet ID by PPN

RPRTCRESNETIDBYPPN [4 Byte Hex PPN Number]

RPRTPPNBYCRESNETID

Report PPN by cresnet ID

RPRTPPNBYCRESNETID [Cresnet Id in Hex]

RPRTTSIDByuid

Display the rf device TSID by given UID

Identify device(s) by their UID

RPRTTSIDBYUID [UID|ALL]

UID - device UID [#####]

ALL - all devices

RPRTTSIDTable	Display rf devices id strings with TSID
Identify all device(s) by their TSID RPRTTSIDTABLE	
SDEBUG	(* Check connection status of route symbols
SDEBUG[:program#] arguments program#: number of program to execute. (default=1) -D[ON OFF]: Set device to have it's debug info printed (ON) or not (OFF). Followed by a space and: R : Turn on/off debug flag for all registered devices. A : Turn on/off debug flag for all devices. C : Turn on/off debug flag for all top-level Cresnet devices. C##: Turn on/off debug flag for Cresnet ID ##. E : Turn on/off debug flag for all top-level Ethernet devices. E##: Turn on/off debug flag for Ethernet ID ##. S : Turn on/off debug flag for all top-level Slots. S##: Turn on/off debug flag for Slot ##. D##: Turn on/off debug flag for Device ##. Note: ISTAT DEV or ISTAT REGDEV can be used to list device numbers. ex: SDEBUG -DON C0x25 turns on debug flag for Cresnet ID 25 Dotted notation is valid for C, E, S commands above, i.e.: SDEBUG -DON C0x25.A turns on debug flag for Cresnet ID 25, Port A SDEBUG -DON S9.0x25.A turns on debug flag for Slot 9, ID 0x25, Port A -TXR[ON OFF]: Show transmitted packets in raw form. -TXI[ON OFF]: Show transmitted packets in interpreted form. -TXF[0 1] : Transmit Interpreted form: 0=Machine Parseable, 1=Human Readable. -RXR[ON OFF]: Show received packets in raw form. -RXI[ON OFF]: Show received packets in interpreted form. -RXF[0 1] : Receive Interpreted form: 0=Machine Parseable, 1=Human Readable. -PR[ON OFF] : Show ASCII characters in Raw Packets. -PI[ON OFF] : Show ASCII characters in Interpreted packets. -SB[ON OFF] : Suppress printing of broadcast packets. -SU[ON OFF] : Suppress printing of unresolvable packets (direct-to-wire packets going to an ID not in the program). -O[ON OFF] : Show Online/Offline Interpeted Messages. Note that Online/Offline messages will show regardless if interpretation is on. -S[0 1] : Show current settings, 0:Machine Parseable, 1:Human Readable. -QP[#] : Set quick-profile #; if #=?, show QP formats. -CON[ON OFF]: Write debug output to console -RM[ON OFF]<drive num>] : Write debug output to Removable Media -SZ{size} : Set RM Log File Size maximum -ST[ON OFF] : Show Time before packet -SD[ON OFF] : Show Date when Time is printed NOTE: A device *MUST* be in the currently running program in order to be debugged!	
SECURECIPport	Set Secure(SSL) port number for CIP
SECURECIPPORT [portnumber] portnumber - desired port number > 4095 (in decimal). No parameter - displays current value	
SECURECTPport	Set/Get Secure CTPPort
SECURECTPPORT [portnumber] portnumber - desired port number > 4095 (in decimal). No parameter - displays current value	
SECUREGatewaymode	Set/Display secure gateway operation mode.
SECUREGATEWAYMODE [DEFAULT SECUREONLY SECURENONCS SECUREEXT] DEFAULT - Accept both secure and unsecure Gateway CIP connections on all network interfaces. SECUREONLY - Accept only secure Gateway CIP connections on all network interfaces. SECURENONCS - Accept only secure Gateway CIP connections from non control subnet. Accept both secure and unsecure Gateway CIP connections on the control subnet (Router Only Control Systems). SECUREEXT - Accept only secure Gateway CIP connections from external IP addresses (from different subnets than any of the connenetworks) No parameter - displays current Secure gateway mode settings.	
SECUREWebport	Set Secure(SSL) port number for Web.
SECUREWEBPORT [portnumber] portnumber - desired port number (in decimal). No parameter - displays current value	
SENDNETPKT	Send a Cresnet Packet

```

SENDNETPKT {Parameters}
  SENDNETPKT {data (w/o count)} - Send a Cresnet packet.
  data is a string of 2-digit hex bytes.
  For example: "SENDNETPKT 0300000\r" sends a digital high to join 1 on ID 3.
SendCresnetPacket: Packet sent successfully

```

SENDIPTABLE

Transfer the IP table to Internal flash

```

SENDIPTABLE [program]
  program - which program the table is for (default = 1)

```

SETCRESNETIDBYPPN

Set cresnet ID by PPN

```

Valid options are:
  Status if no arguments
Syntax: SETCRESNETIDBYPPN [HEX cnet ID] [HEX 4-byte Address | ALL ]

```

SETCSAUTHENTICATION

Set Control System Authentication credentials.

```

SetCSAuthentication -N:Username -P:Password
Sets Control System Authentication parameters for CIP connect message.
  -N: specifies name of a local or domain (domain/user) user
  -P: specifies password.

```

SETLOCKOUTTIME

Set time that an IP is blocked from login

No help available for this command.

SETLOGINAttempts

Set the maximum number of login attempts before a user is blocked

No help available for this command.

SETLogoffidletime

Set idle time allowed before current user is automatically logged off

No help available for this command.

SETPASSWORDRULE

Set password rules for local users

```

SETPASSWORDRULE {-ALL | -NONE} | {-LENGTH:minPasswordLength} {-MIXED} {-DIGIT} {-SPECIAL}
  -ALL: all rules will be applied.
  -NONE: no rule will be applied.
  -LENGTH: specifies minimum password length. By default, the minimum length is 6. This parameter can't be combined with NONE.
  -MIXED: password must contain a lower and upper case character. This parameter can't be combined with NONE.
  -DIGIT: password must contain a number. This parameter can't be combined with NONE.
  -SPECIAL: password must contain a special character. This parameter can't be combined with NONE.

```

SETPPNBYCRESNETID

Set PPN by cresnet ID

```

Valid options are:
  Status if no arguments
Syntax: SETPPNBYCRESNETID [HEX cnet ID] [4 byte Hex Adr]

```

SETPPNBYPPN

Change old PPN to new PPN

```

Valid options are:
  Status if no arguments
Syntax: SETPPNBYPPN [Hex OldAdr]|ALL [HEX NewAdr]

```

SETRFIDBYTSID

Set rf device(s) RFID by TSID

```

Set device(s) RFID by their TSID
SETRFIDBYTSID [RFID] [TSID|ALL]
  RFID - device RFID, valid RFIDs <3..FE>
  TSID - device TSID <#####>
  ALL - all devices

```

SETRFIDBYUID

Set rf device(s) RFID by UID

Set device(s) RFID by their UID
 SETRFIDBYUID [RFID] [UID|ALL]
 RFID - device RFID, valid RFIDs <3..FE>
 UID - device UID <#####>
 ALL - all devices

SETSignal

(*) Set the state of a signal in the program

SETSignal[:program#] signal_number value {-U}
 program#: number of program to execute. (default=1)
 signal number - Hex Number (i.e. 0x0000000B) or Decimal number (i.e. 11)
 value
 - 0 or 1 for Digital
 - pXX : Pulse XX ms long for Digital
 - iXX : Inverse pulse XX ms long for Digital
 - 0 to 65535 for Analog
 - Quoted string for Strings
 -U - Assumes UTF-16 encoding of the string (default ASCII).

SETTBCLIENTCONFRVR

Set Console Client to try and reconnect after a disconnect

SETTBCLIENTCONFRVR [ON|OFF]
 Sets Console Client to reconnect after a disconnect

SETTBCLIENTIPA

Set Console Client Server IP Address

SETTBCLIENTIPA [ip_address | HostName]
 ip_address - IP address in dot decimal notation
 HostName - TBClient server hostName

SETTBCLIENTNUMRETRY

Set Console Client number of retries

SETTBCLIENTNUMRETRY [numberofretries]
 numberofretries - Max number of retries
 0 indicates that the console client connection will keep on trying to connect to the server

SETTBCLIENTPORTNUM

Set Console Client Server Port Number

SETTBCLIENTPORTNUM [portnumber]
 portNumber - Port Number in decimal notation

SETTSidbyuid

Set rf device TSID by UID

Set device TSID by their UID
 SETTSIDBYUID [UID] [TSID]
 UID - device UID <#####>
 TSID - device TSID <#####>

SHOWARPTable

Display interface ARP table

SHOWARPTABLE
 No parameters

SHOWEXTRAerrors

Enables extended errors

SHOWEXTRAERRORS [{option}] [OFF | ON]
 {option} [OFF | ON] turns on or off specified option
 Px - extra for Program x on (x = program number)
 CON - extra for console
 SYS - extra for general system information
 ENET - extra for ethernet communications
 RF - extra for RF communications
 OSD - extra for On Screen Display
 BAC - extra for BACnet communications
 CRESTIMERENG - extra for Crestron Timer Engine
 AUTOUPDATE - extra for Crestron Auto Updater
 WEB - extra for Crestron Web Scripting (IIS/ISAPI)
 OFF - turns all off
 ON - turns all on
 No parameter - displays current setting

SHOWHW

Display hardware configuration

SHOWHW No parameters																																								
SHOWLICENSE	Display list of licensed application(s).																																							
SHOWLICENSE - display list of licensed application(s).																																								
SIGDEBUG	(*) List Sig information for the specified device.																																							
SIGDEBUG[:program#] -T:[Transport] -I:[DeviceID].{[Subslot(s)]} -T:E C S Device is apart of Ethernet, Cresnet, or an internal Slots. -I:ID ID of the device with optional subslots. Ex: 3.1.1.																																								
SIGNALTIMESTAMP	(*) Show signal timestamps																																							
SIGNALTIMESTAMP -S:SigNum SigNum: Signal Number to show timestamps of.																																								
SNTP	Configure network time synchronization																																							
SNTP [START STOP SYNC] [SERVER:address] [PERIOD:time] START - starts periodic synchronization STOP - stop periodic synchronization SYNC - force synchronization SERVER - address of server to synchronize with PERIOD - how often synchronization is done (in minutes min=10) No parameter - displays current setting																																								
SOCKETSendtimeout	Set TCP Socket Send Timeout value in Milliseconds																																							
SOCKETSENDTIMEOUT [value] value - desired timeout in milliseconds No parameter - displays current value																																								
SPLUSLoad	(*) Test loading a SIMPL+ module																																							
SPLUSLOAD[:program#] splus_module_dll_name program#: number of program to execute. (default=1) splus_module_dll_name - filename of the splus DLL to load																																								
SPSHOWPOOLERR	(*) Show Smart Thread Pool Error.																																							
SPSHOWPOOLERR[:program#] Show Thread Pool Errors																																								
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SSHPORT	Set/Get the SSH Port																																							
SSHPORT [OFF ON portnumber] [OFF ON] - Disables/Enables SSH. Default is ON portnumber - desired port number (in decimal). No parameter - displays current value																																								
SSL	Display/Set SSL type.																																							

```
SSL [OFF | SELF | CA] [-P:password] {TLSSSL | TLSONLY | TLS1.2ONLY}
  where 'OFF' turns off SSL,
  where 'SELF' sets SSL to use 'self-signed' certificates,
  where 'CA' sets SSL to use 'CA' issued certificates,
  where '-P:' supplies password for opening the private key file when SSL is set to CA,
  where 'TLSSSL' implies that we support SSL fallback (default) for client/server connections.
  where 'TLSONLY' implies that we do not support SSL fallback for client/server connections.
  where 'TLS1.2ONLY' implies that we ONLY support TLS1.2 for client/server connections.
  No parameter - displays current setting
```

SSPTASKs

(*) Show currently executing user threads in SIMPL# Pro.

```
SSPTASKs[:program#]
  View a list of the executing user threads in a SIMPL# Pro program.
  No arguments necessary.
```

STARTCLIENTFWBURN

Start client firmware burn process

```
STARTCLIENTFWBURN [TSID] [Component]
  TSID - RF client TSID number
  Component - specify slave where the code will be burned, range <slave1..slave6>
```

STARTTBCIENT

Enables Console Client Connection

```
STARTTBCIENT
  Enables Console Client connection
```

STOPAUDIO

Stop Play operation

```
STOPAUDIO
  Stops the current play
  No Parameters required
```

STOPLIGHTBYPPn

Stop Light And Poll mode

```
Valid options are:
  Status if no arguments

Syntax: STOPLIGHTBYPPN [4 byte Hex Adr]|ALL [SHOW]
```

STOPLIGHTBYTSID

Terminate Light and poll mode in rf device(s)

```
Terminates the device(s) light by TSID mode
STOPLIGHTBYTSID [TSID|ALL] [CONFIRM]
  TSID - device TSID <#####>
  ALL - all devices
  no parameter - all devices
  CONFIRM - devices show the confirm pattern before exiting the light by TSID mode
```

STOPLIGHTBYUID

Terminate Light and poll mode in rf device(s) by UID

```
Terminates the device(s) light by UID mode
STOPLIGHTBYUID [UID|ALL] [CONFIRM]
  UID - device UID <#####>
  ALL - all devices
  no parameter - all devices
  CONFIRM - devices show the confirm pattern before exiting the light by UID mode
```

STOPPROGRAM

Stops the specified program

```
STOPPROGRAM {-P:ALL | -P:Specific Program Identifier} {-V} {-K}
  -P: Stop a specific program or ALL. If not present, ALL assumed.
  -V: Verbose shutdown.
  -K: Keep DBG SIGNAL information (STOPRPG normally clears DBG SIGNAL flags)
```

STOPTBCIENT

Disable Console Client Connection

```
STOPTBCIENT
  Disables Console Client connection - will break connection
```

SUDO

Sudo Command

SUDO cmd [param1 param2 ...]
cmd: command to execute.
param1,param2,...: parameters for the command.

SUSERPROGCMD

(*) Send a command from the console to the user program

USERPROGCMD[:program#] {quoted string}
program#: number of program to execute. (default=1)
Escape sequences will be translated, quotes will not be sent to user program.
The program needs a "User Program Commands" symbol to receive the data

SYMSETSIG

(*) Set the state of the signal in the program

SYMSETSIG[:program#] symbol_number index value [A | D | S]
program#: number of program to execute. (default=1)
symbol number - Hex Number (i.e. 0x0000000B) or Decimal number (i.e. 11)
Can be gotten from ISTAT PROG | DEV | REGDEV
index - Hex Number (i.e. 0x0000000B) or Decimal number (i.e. 11)
0 based index into existing signals on symbol.
value - 0 or 1 for Digital
- pXX : Pulse XX ms long for Digital
- iXX : Inverse pulse XX ms long for Digital
- 0 to 65535 for Analog
- Quoted string for Strings
[A|D|S] - Optional List specifier for Trilisted symbols
(Analog, Digital, Serial). index is then 0 based
into the respective list.

SYSTEMON

System Monitor Control

Local commands affecting individual monitors
xx [c|d|e|f|r|s|?] - show/flags/help specific monitors
? - show this monitor help
Calibrate - reset idle system load factor
Disable|OFF - stop monitoring this option
Enable|ON - start monitoring this option
Flags [#dec value] - set specific flags to value
Reset - reset min/max stats for this monitor
Show run-time - toggle run-time display for this monitor

Example:

3 show on - will set run-time display option to ON

Global commands affecting all
Disable|OFF - disable globally
Enable|ON - enable globally
Id stats - show cresnet stats by ID
Minmax - show minimum/maximum stats for all
Reset - reset min/max stats
Save - save settings
Timing xx - update loop in seconds

SYSTEMKEY

Display system key.

SYSTEMKEY - display system key.

TCPKEEPALIVE

Enable/disable TCP Keep Alive

TCPKeepAlive [ON | OFF]
Enables/Disables TCP Keep Alive
TCP Keep Alive is supported for Client-Servers / Direct Socket Client-Servers / Console connections
No parameter - displays current setting

TELNETport

Enable/disable the Telnet port

TELNETPORT [OFF | ON]
No parameter - displays current setting

TESTDNS

Test DNS Server

TESTDNS string
string - ASCII string containing host name

TESTWATCH

Test watchdog timer

TESTWATCH [HW | SW]
HW - test the hardware watchdog timer
SW - test the software watchdog timer

THREADPOOLINFO

(*) Information about the Custom App Thread pool.

THREADPOOLINFO[:program#]
View Thread Pool Information.
No arguments necessary.

TIMEZone

Set the timezone

TIMEZONE [LIST | zone]
LIST - print timezones
zone - number of the timezone to set
No parameter - displays current setting

TIMEdate

Set the time and date

TIMEDATE [hh:mm:ss mm-dd-yyyy]
hh:mm:ss - time in hours (use 24hr), mins and secs
mm/dd/yyyy or mm-dd-yyyy - date in months(1-12), day(1-31) and year
No parameter - displays current setting

TRANSFERLIcense

Transfer application license.

TRANSERLICENSE [VENDORID] [MODULEID] [SYSTEMKEY] [HOSTNAME] - transfer license to other controller
VENDORID - vendor id, valid range (1...65535)
MODULEID - module id, valid range (0...65535)
SYSTEMKEY - system key for other controller
HOSTNAME - hostname for other controller

TRIGGEREvents

Trigger timer events for application id.

Trigger timer event for specified event group within program id.
TRIGGEREVENTS -I:ProgramTag -G:GroupEventName -E:EventName
-I: ProgramTag/UserDefinedTag
-G: Group Event Name
-E: Event Name

TYPE

Display file contents

TYPE filename
filename - the name of the file to display

UCMD

(* Send a command from the console to the user program

USERPROGCMD[:program#] {quoted string}
program#: number of program to execute. (default=1)
Escape sequences will be translated, quotes will not be sent to user program.
The program needs a "User Program Commands" symbol to receive the data

UNACQUIREBYTsid

Unacquire device by TSID

Unacquire device by TSID
UNACQUIREBYTSID [TSID|ALL] [zdo leave flag]
TSID - device TSID <#####>
ALL - all devices
zdo leave flag - 0 MNET command sent to client to leave the network
1 ZDO command sent to client to leave the network
Note: this command is not applicable to ER devices

UNACQUIREBYUID

Unacquire device by UID

Unacquire device by UID
UNACQUIREBYUID [UID|ALL] [zdo leave flag]
UID - device UID <#####>
ALL - all devices
zdo leave flag - 0 MNET command sent to client to leave the network
1 ZDO command sent to client to leave the network
Note: this command is not applicable to ER devices

UPDATEPassword

Update current local user's password

No help available for this command.

UPLOAD

Load file into cresnet device

Valid options are:

CRESnet - UPLOAD Over Cresnet
SLOT - plug-in card
UPLOAd - device upgrade
CODE - device upgrade
Firmware - device upgrade
DATA - xmodem xfer mode
SCreen - xmodem xfer mode
hex number allowed as argument
UPLOAD [SLOT|CNET(default)] ID_OR_SLOT_NUM [FIRMWARE |CODE | SCREEN |DATA(default)]

UPTIME

Display the time the system is running

UPTIME
no parameters needed

USERINFORMATION

Show access information for a specific user.

No help available for this command.

USERPROGCMD

(*) Send a command from the console to the user program

USERPROGCMD[:program#] {quoted string}
program#: number of program to execute. (default=1)
Escape sequences will be translated, quotes will not be sent to user program.
The program needs a "User Program Commands" symbol to receive the data

VERSION

Version Command

VERSION [-v]
-v : show extended version info.

VIDSELECT

Set Video Output mode

VIDSELECT [mode]
mode - set the video output resolution. Choices:
480p
480i
576i
576p
No parameter - displays current setting

VOLUME

Audio Output Volume Up/Down

VOLUME [newVolume]
newVolume - Volume to set between 0 and 65535
No Parameter - displays current volume

WAVEDUMP

(*) Dump Logic Wave Information

WAVEDUMP[:program#] arguments

program#: number of program to execute. (default=1)
Set parameters/display the Logic Wave history.
-C:ON|OFF Dump list of last symbols executed after a
"Could not solve logic within %d waves." error to Console.
-F:ON|OFF Dump list of last symbols executed after a
"Could not solve logic within %d waves." error to File.
-S:# Store information for up to this number of symbols
-L Dump the wavelist.

Note: Wave Dumps may not show a full history for a solution depending on the size of the wave history.
When using this command it is highly recommended to use the -C:ON and/or -F:ON form to dump the list immediately, not -L.

WEBINIT

Initialize Webserver default file.

WEBINIT
no parameters needed

WEBPORT

Set port number for Webserver.

WEBPORT [portnumber]
portnumber - desired port number (in decimal).
No parameter - displays current value

WEBSERVER

Enable/disable Webserver.

WEBSERVER [ON | OFF]
No parameter - displays current setting

WHO

Generate a report of the Ethernet consoles

WHO
No Parameter necessary

WHOAMI

Display current user's identity

WHOAMI
No parameters needed.

WI2CGen

Write i2c data

WI2CGEN [bus] [adr] [sub] [sublen] [data0]...[data n] - set I2C data
bus - i2c bus, in decimal, range <1..3>.
adr - i2c address, hex bytes.
sub - i2c sub address, hex bytes, e.g. register addr
sublen - sub address len 0..4 bytes.
[data0]...[data n]: data in hex.

WRITEI2C

Write i2c data

WRITEI2C [device] [subaddr] [byte0] ... [byteN] - write I2C device
device - device index, range <0..2>
subaddr - sub-address in hex, e.g. register addr
[byte0..byteN] - data in hex

```
device | name
=====
00     | EEPROM-AT24C128N
01     | VIDEO_DECODER-CH7026
02     | RTC-M41T60
```

XGETfile

Use XMODEM to transfer file from ROM

XGET filename
filename - name of the file

XLOADCERTfile

Use XMODEM to transfer certificate file to ROM

XLOADCERTFILE size date time name
size - size of the file in bytes
date - date of the file (MM-DD-YY)
time - UTC time of the file (HH:MM:SS)
name - name of the file

XPUTfile

Use XMODEM to transfer file to ROM

XPUT size date time name
size - size of the file in bytes
date - date of the file (MM-DD-YY)
time - UTC time of the file (HH:MM:SS)
name - name of the file