

Commandset for the DMPS3-4K-150-C

DMPS3-4K-150-C Cntrl Eng [v1.502.3088.20962 (Jun 16 2017), #xxx] @E-xxx

190 normal commands found. 146 hidden commands available.

3STONES	Test watchdog timer
3STONES No parameters	
8021XAAuthenticate	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	
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**Console command to enter the Peer System IP Address and IPID**

[IPID] [IP Address]
Current Settings: IPID = 0 IP Address =

ADDPORTRMAP**Add a port map to the NAT table**

ADDPORTRMAP ext_port int_port ip_address protocol
ext_port - port number on the WAN side of NAT
int_port - port number on the LAN side of NAT
ip_address - IP address (in dot decimal notation)
of the device on the LAN side of NAT
protocol - IP protocol for the portmap service (TCP | UDP | Both)

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

Format: ADDPeer 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)

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**

No help available for this command.

ADLOGOut**Logout from Active Directory server**

No help available for this command.

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.

ARMBITset**AV manager Debug**

Set ARM Upgrade Bit Map
ARMBITSET [value] (Each bit indicate one ARM [1-2])
[value]: 0: no ARM need upgrade; 7: 2 ARMs and FPGA need upgrade

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

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

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

AVMANAGERSTAT**AV manager status.**

** dm_hd_mfs_avmanager status **

Default priority:251
Video priority:251
HW version:0

Task info

TaskList[6]: Name (ID, Running, Created, Current)
Task[0]: CMRx_0 (0x070700a6, 1, 1, 0)
Task[1]: CMTx_0 (0x070a00a6, 1, 1, 0)
Task[2]: CMRx_1 (0x071100a6, 1, 1, 0)
Task[3]: CMTx_1 (0x073700a6, 1, 1, 0)
Task[4]: CnAvQ (0x06a3009e, 1, 1, 0)
Task[5]: Proc6F00082_Task5 (0x066d00ae, 0, 1, 0)

Timer info:

TimerList[1]: Name (ID, Running, Created, Current)
Timer[0]: Proc6F00082_Timer6 (0x068c00ae, 1, 1, 0)

Queue info:

QueueList[0]: Name (CurrQ, MaxQ, HighQ, MaxSize, NumRead, NumWrite, Flags)

Lock info:

Count: 10

MemoryManager:

MemMgr buffers: small 160/1/0, medium 80/1/0, large 40/1/0, exlarge 24/0/0

TLDM:

Slot: 251

Stream1 - Digital usage (153 of 800) Stream1 - Analog usage (219 of 800) Stream1 - Serial usage (40 of 400)

EnableJoinFeedback:1

EnableThrottle:0

FeedbackTimer:100

ThrottleTimeout:108000

AVMDEBug

CMDEBUG command.

To use debug Table: DEBUG [INDEX] [ON|OFF]

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

CGIO

Clear GIO pin on the MFMSys Blade

CGIO [pin_index]		
Pin Name	Pin	Name
00: TP37	01:	FAN_POWER_EN
03: PGOOD_LED (GREEN)	04:	CRESNET_RXEN_TXEN_N
06: MEZZ_LAN_ETH_PHY_RST_N	07:	MEZZ_RST_OUT
09: BASE_ID0	0A:	BASE_ID1
0C: LVDS_PARA_VIDEO_PWDN_N	0D:	FP_SETUP_BUTTON
0F: UNUSED_03	10:	UNUSED_04
12: BOARD_ID1	13:	BOARD_ID2
15: BOARD_ID4	16:	BOARD_ID5
18: BOARD_ID7	19:	BOARD_REV0
1B: SYSID_REV0	1C:	SYSID_REV1
1E: RSVD_FP_ID0	1F:	RSVD_FP_ID1
21: MEZZ_USB_ETH_CONT_RST_N	22:	MEZZ_FRONT_PANEL_RST_N
24: USB_PORT4_ENABLE_N	25:	MEZZ_ETH_SWITCH_RST_N
27: USB_PORT2_ENABLE_N	28:	USB_ETH_PHY_RST_N
2A: RSVD_FP_SPARE0	2B:	RSVD_FP_SPARE1
2D: CPU1_MEZZ_GPIO_2	2E:	CPU2_MEZZ_GPIO_1
30: TP34	31:	MEZZ_CPU1_GPIO_1
33: MEZZ_CPU1_GPIO_3	34:	MEZZ_CPU2_GPIO_1
36: MEZZ_CPU2_GPIO_3	37:	MEZZ_CPU1_RESET_N
	02:	FAULT_LED (RED)
	05:	EXT_ETH_PHY_RST_N
	08:	PROC_INIT_DONE
	0B:	BASE_ID2
	0E:	UNUSED_02
	11:	BOARD_ID0
	14:	BOARD_ID3
	17:	BOARD_ID6
	1A:	BOARD_REV1
	1D:	SYSID_REV2
	20:	TP10
	23:	USB_PORT3_ENABLE_N
	26:	USB_PORT1_ENABLE_N
	29:	TP70
	2C:	CPU1_MEZZ_GPIO_1
	2F:	CPU2_MEZZ_GPIO_2
	32:	MEZZ_CPU1_GPIO_2
	35:	MEZZ_CPU2_GPIO_2
	38:	MEZZ_CPU2_RESET_N

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.

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, to
password from 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

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")

CORE3XPANELWEB

Configure the core3 XPanel Flash policy server

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

COURTESYPORT

Add/Remove Courtesy port for service

COURTESYPORT [port number/ALL] [on/off]
COURTESYPORT Add/Remove Courtesy port

CREATECSR

Generate a CSR.

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.

CTPPORT

Set/Get the CTP Port

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

DATASTOREDELETE

Clear the Logs for the Specified Program

DATASTOREDELETE [-T:DAYX 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

DATASTOREEXPORT

Export to XML file

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

DATASTOREIMPORT

Import from XML file

DATASTOREIMPORT [-F:filename] [-L | -G]
-F:\filepath\filename to import. Default is Console
-L: Operate on Local Store
-G: Operate on Global Store

DATASTORESTATUS

The Data Store Status

DATASTORESTATUS
Gives Information on All data Store databases.

DBGDEVICE

(*) Simulate incoming packets for the selected device

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.

DBGPKTRX

(*) Show/hide all packets received by the device symbol layer

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

DBGPKTTX

(*) Show/hide all packets sent by the device symbol layer

DBGPKTTX[:program#] {Parameters}
 program#: number of program to execute. (default=1)
 -S:ON|OFF Turn ON or OFF display of Outgoing packets
 -N:C|E|S|A Show for Cresnet, Ethernet, Slot, or All [All assumed if not present]
 -I:ID ID to debug; Preface with 0x for Hex. Assumes all ID's if not present.
 -H:ON|OFF Show packets as hex only
 -T:ON|OFF Timestamp
 Current Status: 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 CONTIMEOUT {TimeInMs} - Console write timeout in ms [currently 2000 ms]
 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)
 Current Console Transaction ID: 0x00000000

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 ASCII
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

DEFAULTPORTMAP

Setup default port mappings

DEFAULTPORTMAP
Adds all default port mappings.

DEFGWUPD

Update Default Gateway Address and update permission

DEFGWUPD [on / off] -- Update Default Gw Address on service port and disable/enable default Gw address update.

DEFROUTER

Set default router.

DEFROUTER [device_num ip_address]
device_num - specified Ethernet device [0 - 1]
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

DEVICE

Device command.

```

DEVICE LIST
  lists all devices in the system
DEVICE <NAME> [INST] <CMDSTR> <BYTE0> <BYTE1> <BYTE2> ...
DEVICE <NAME> [INST] USER <CMDID> <BYTE0> <BYTE1> <BYTE2> ...
  lists all devices in the system
  Values are in hexadecimal
Device Commands:
  INIT
  PRINT
  HALT
  TX
  RX
  DBGSET
  DBGGET
  LOAD
  SET
  GET
  DETECT
  TEST
  ERASE
  ENABLE
  DISABLE
  DUMP
  ?

```

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

```

DMANALYZE

Set mirroring to backplane port

```

DMANALYZE [on/off] -- for all ports
DMANALYZE [on/off] -P[port] -- for one port
Set ethernet switch in DM_ANALYZE: analyzeport 9, port0-7 mirror to analyze

```

DMPING

DMPING command

```

Pinging all devices. Please wait..... (Could take up to 4 seconds)
DMPING
Display all DM connected Endpoints that have ethernet connection with this box.
No parameters

```

DMRCon

DMRCON command

```

DMRCON all [slot decSlot][.subslot hexSlot..] [command string]

```

DMSAFECASCADE

DM SafeCascade command

```

Safe Cascading is OFF
. Reboot to take effect

```

DMUPLOAD

Upload endpoint via DMnet

```

Upload Endpoint Firmware syntax:
DMUPLoad [A|B] [Slot].1 [file name]
[A|B|C|D] : A - for firmware, B - for bootloader
Security : C - for firmware, D - for bootloader
valid slots: 9, 10, 11
Done with DMUPLoad command!

```

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.

```

DUMPDMIConfig

Reports DM IP Config

```

DUMPDMIConfig:
Reports DM IP Config:

```

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

```

ENABLEFDEBUG

Enable fdebug

To use field debug: FDEBUG [INDEX] [ON|OFF]

- 01 HDMI RX
- 02 HDMI TX
- 03 ANALOG RX
- 04 HDCP MAX DEVICE TEST
- 05 CP VERIFICATION
- 06 EDID
- 07 CRESNET RX
- 08 CRESNET TX
- 09 HDMI RX AUDIO
- 10 DSP
- 11 HDMI FIBER
- 12 USB
- 13 HDCP RX
- 14 HDCP TX
- 15 HDMI TX AUDIO
- 16 STREAM
- 17 DM RX
- 18 DM TX
- 19 SERIAL PORT
- 20 DM MASTER
- 21 DM SLAVE
- 22 ETHERNET
- 23 DMNET CEC
- 24 SDI RX
- 25 SCALER
- 26 ANALOG TX
- 27 OW RX
- 28 OW TX
- 29 VS RX
- 30 VS TX
- 31 OW POLL
- 32 OW EDID
- 33 OW HDCP
- 34 OVERLAY HANDLER
- 35 LVDS RX
- 36 HDMI CEC
- 37 AUDIO DAC
- 38 FPGA
- 39 ENCAPSULATION
- 40 SWITCHER
- 41 DP RX
- 42 TOUCH
- 43 CALTOUCH
- 44 IR TX
- 45 DM CONTROLLER
- 46 SYSTEM STATS
- 47 EXT TOOL EDID
- 48 USB I
- 49 VIDEO MSG HANDLER
- 50 FRONT PANEL
- 51 CNET MASTER
- 52 LCD MANAGER
- 53 INTERAPP
- 54 TEST GEN
- 55 TEST AMP
- 56 CHANNEL MGR
- 57 AVM MGR
- 58 AVM CNET MGR
- (null)
- (null)
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To disable all field debugs: FDEBUG OFF
To enable all field debugs: FDEBUG ON

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	
EPDEBUG	EPDEBUG command.

To use debug Table: DEBUG [INDEX] [ON|OFF]

ERASE	Remove file(s)
<p>ERASE filesearchstring filesearchstring - search string which may contain wildcards</p>	
ERRlog	Prints the current error log.
<p>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</p>	
ESWDEBUG	Ethernet switch debug commands
<pre> ESWDEBUG -R -- set rate limits on all ports ESWDEBUG -F[all] -- read FDB entry ESWDEBUG -F[n] -- erase FDB per port ESWDEBUG -S[port/all] -W[state] -- read/write STP state ESWDEBUG -E -- read all FEC registers ESWDEBUG -E[reg_name] -W[data] -- write one FEC register ESWDEBUG -X[port] -- read all registers from phy 8710 ESWDEBUG -Y[port] -- read all registers from phy 88E1114 ESWDEBUG -O[on/off/] -- enable/disable polling on FEC. no param for read ESWDEBUG -L[port] -- prints all PIRL registers per port ESWDEBUG -L[port] [engine] [reg] -W[data]-- writes one PIRL register ESWDEBUG -A[num] </pre>	
ESWMAINT	Ethernet switch test
<p>ESWMAINT Command check ESW state</p>	
ETHWdog	Enable/disable Ethernet Watchdog.
<p>ETHWDOG {ON OFF} ON - turn on Ethernet watchdog OFF - turn off Ethernet watchdog No parameter - display current watchdog status</p>	
EWDGCONFIG	Configure Ethernet Watchdog.
<pre> 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 </pre>	
FDEBUG	FDEBUG command.

FORMAT	Format external memory card
<p>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.</p>	
FPUTfile	Uses built-in (S)FTP/HTTP(S) client to transfer file from ROM to the server
<p>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</p>	
FREE	Show available file space
<p>FREE - Indicates free disk space</p>	
FTPSErVer	Enable/disable the FTP Server
<p>FTPserver [OFF ON] No parameter - displays current state</p>	
GETAUDITLOG	Retrieve the audit log.
<p>No help available for this command.</p>	
GETCODE	Retrieve code needed for eControl2 activation
<p>GETCODE Retrieves code needed for eControl2 activation.</p>	
GETIPTABLE	Transfer the IP table from Internal flash
<p>GETIPTABLE [program] program - which program the table is for (default = 1)</p>	
GETPASSwordrule	Get password rules for local users
<p>GETPASSWORDRULE No parameters needed.</p>	
HANDLEbadpacket	AV manager Debug
<p>Set Levels to handle packet contains only 0s HANDLEBADPACKET [value] value: 0: Do nothing value: 1: Log error only value: 2: Send Clear All command to ARM value: 3: Log error and send Clear All command to ARM</p>	
HARDWAREDEBUG	HW debug command
<p>[STREAM ALL]</p>	
HARDWARETEST	HW test command
<p>Stream 1 - ChannelMgr: OK Stream 2 - ChannelMgr: OK</p>	
HEARTBEATtimeout	Set TCP Socket Send Timeout value in Milliseconds
<p>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</p>	
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

I2CTEST	Read I2C device on the MFMSys Blade
----------------	--

I2CTEST No Arguments
 Tests all I2C devices

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

INTDEFROUT	Set Flag Update/Not Default Gatewayin Internal LAN
-------------------	---

IPAddress	Set IP address.
------------------	------------------------

IPADDRESS [device_num ip_address]
 device_num - specified Ethernet device [0 - 1]
 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 - 1]
 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 FINDSIG {number} - Find Signal Index in Scheduler.
 ISTAT FINDSYM {number} - Find Symbol Index in Scheduler.
 ISTAT ERSLEEPY - Show Unconfigured ErSleepy devices in program.
 ISTAT WAVELIST - Show last 0 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#

JOINGETINTparam

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

JOINSETDigtal

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
<p>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</p>	
KILLSOCKET	Close an active TCP console socket
<p>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</p>	
LIGHTBYPPN	start squack mode
<p>Valid options are: Status if no arguments Syntax: LIGHTBYPPN [4 byte Hex Adr] ALL</p>	
LISTBLOCKEDip	List the blocked IP addresses
<p>No help available for this command.</p>	
LISTDNS	Display the list of DNS servers
<p>shows current DNS servers - no parameters needed</p>	
LISTDOMAINGroups	List domain groups that were added to this control system
<p>No help available for this command.</p>	
LISTENSTAT	Generate a report of the Ethernet listen sockets
<p>LISTENSTAT No Parameter neccessary</p>	
LISTGROUPS	List existing local groups
<p>No help available for this command.</p>	
LISTGROUPUsers	List all existing (local and domain) users in an existing local group
<p>No help available for this command.</p>	
LISTUSERS	List of users authenticated on this system
<p>No help available for this command.</p>	
LOADIPTABLE	Load New IPTable
<p>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</p>	
LOGGER	(*) Turn the logger on, off, or change the operation mode
<p>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.</p>	
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

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

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	(OFF) - Logic info
LOGICDEBUG SKEDDER ON OFF	(OFF) - Event Scheduler info
LOGICDEBUG ANSKEDDER ON OFF	(OFF) - Analog Event Scheduler info
LOGICDEBUG VALIDATESKED ON OFF	(N/A) - Validate Scheduler Nodes (Requires Custom Firmware)
LOGICDEBUG SYMPROC ON OFF	(OFF) - Show Symbols as Processed
LOGICDEBUG TXTIME ON OFF	(OFF) - Show time before/after packet transmission to driver
LOGICDEBUG SYMSIGPROC ON OFF	(OFF) - Show signals changed for symbols being processed
LOGICDEBUG UPREQ ON OFF	(OFF) - Debug update request
LOGICDEBUG SHOWREG ON OFF	(OFF) - Show extended registration info
LOGICDEBUG SHOWBOOT ON OFF	(OFF) - Show extended logic startup/shutdown info
LOGICDEBUG PAGEUPDATE ON OFF	(OFF) - Show info about Page update requests
LOGICDEBUG BUILDIFOFFLINE ON OFF	(OFF) - Ignore m_uiOnlineState when building packet
LOGICDEBUG CLOUDINFO ON OFF	(OFF) - Info going to the Cloud
LOGICDEBUG MEMTRACK ON OFF	(OFF) - Memory Size Tracking
LOGICDEBUG SIGMENTRK ON OFF	(OFF) - Memory Size Tracking
LOGICDEBUG SYMBOLQUEUEADDTIMEOUT {time}	(32000) - Timeout for adding to a Symbol's Queue from TLDM Rx (also single/multi queue)
LOGICDEBUG SENDTOTLDMTIMEOUT {time}	(10000) - Timeout for SendMessageToTLDME() in ms
LOGICDEBUG APPTOTLDMTIMEOUT {time}	(32000) - App To TLDM Timeout in App registration message in ms. Specifying INFINITE for time yields an infinite timeout
LOGICDEBUG TLDMTOAPPTIMEOUT {time}	(32000) - TLDM To App Timeout in App registration message in ms. Specifying INFINITE for time yields an infinite timeout
LOGICDEBUG APPTOCLOUDTIMEOUT {time}	(10000) - App To Cloud Timeout in ms. Specifying INFINITE for time yields an infinite timeout
LOGICDEBUG CLOUDTOAPPTIMEOUT {time}	(10000) - Cloud To App Timeout in ms. Specifying INFINITE for time yields an infinite timeout
LOGICDEBUG MAXWAVESINSOLUTION {size}	(1500) - Number of Waves per Logic Solution
LOGICDEBUG MAXTRANSPERWAVE {size}	(20000) - Number of Signal transitions per wave
LOGICDEBUG SYMQUEUEDEPTH {size}	(250) - Depth of the Symbol Input Queue
LOGICDEBUG SPLUSQUEUEDEPTH {size}	(250) - Depth of SIMPL+ Symbol Input Queue
LOGICDEBUG SPLUSTOLOGICQDEPTH {size}	(100) - Depth of SIMPL+ to Logic Queue
LOGICDEBUG LOGICPOSPLUSQDEPTH {size}	(50) - Depth of Logic to SIMPL+ Queue
LOGICDEBUG TRANSIENTHEAP {size}	(102400) - Transient Heap Size in bytes
LOGICDEBUG REGTIMEOUT {time}	(20000) - Timeout for Registration Event in ms
LOGICDEBUG ACTLOGEVENTCOUNT {number}	(5) - Number of events to pay attention to in the Logic Activity Logger
LOGICDEBUG ACTLOGSIZE {number}	(0) - Size of the Logic Activity Logger
LOGICDEBUG ACTLOGPRIORITY {priority}	(50) - Priority of the Logic Activity Logger
LOGICDEBUG ACTLOGSCREEN ON OFF	(OFF) - Dump Logic Activity Logger to Screen on fault
LOGICDEBUG ACTLOGNOFILE ON OFF	(OFF) - Avoid dumping Logic Activity Logger to file on fault
LOGICDEBUG SCHEDNODES {size}	(200) - Number of Loopnodes in the Scheduler
LOGICDEBUG REPORTNODES {size}	(10) - Report if more than this number loopnodes exceeded before servicing scheduler
LOGICDEBUG RCBCHECK {size}	(4) - Set the number of passes before servicing analogs in the scheduler
LOGICDEBUG TIMEREPORT {size}	(10) - Set the number of ms required to pass before posting the time to execute RunLoopNodeCheck()
LOGICDEBUG SHOWRMLTIME ON OFF	(OFF) - Show time between Run Main Loop
LOGICDEBUG RMLTIME {size}	(10) - Min Time needed to print the Run Main Loop time
LOGICDEBUG SHOWSSQTIME ON OFF	(OFF) - Show time for Single Step Queue Solution
LOGICDEBUG SSQTIME {size}	(10) - Min Time needed to print the Single Step Queue Solution time
LOGICDEBUG SHOWMSQTIME ON OFF	(OFF) - Show time for Multi Step Queue Solution
LOGICDEBUG MSQTIME {size}	(10) - Min Time needed to print the Multi Step Queue Solution time
LOGICDEBUG SHOWSIQTIME ON OFF	(OFF) - Show time for Symbol Input Queue Solution
LOGICDEBUG SIQTIME {size}	(10) - Min Time needed to print the Symbol Input Queue Solution time
LOGICDEBUG CONTIMEOUT {time}	(2000) - General console write timeout for logic in ms (not for DBG SIGNAL/MDBG SIGNAL).
LOGICDEBUG BACNETSTOPPINGHBEAT {time}	(4500) - Dot print timeout while waiting for Bacnet to complete stop, in ms. (Keep to 5000 or under to keep toolbox happy)
LOGICDEBUG BACNETSTOPPEDTIMEOUT {time}	(15) - Overall timeout for Bacnet to complete stop, in min.
LOGICDEBUG ALL ON OFF	- Turn on/off all of the above.
LOGICDEBUG LGC ON OFF	- Turn on/off LOGIC, SYMPROC, SYMSIGPROC.

LOGMESSAGE

(*) 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

MDBGSignal

(*) 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 -T:TimeInMs - Console write timeout in ms [currently 2000 ms]
  MDBGSIGNAL -S:ON {signum(s)} - Turn on signal-specific debug flag for signal {signum}
  MDBGSIGNAL -S:OFF {signum(s)} - Turn off signal-specific debug flag for signal {signum}
  MDBGSIGNAL -S:SHOW {signum(s)} - Show status of signal-specific debug flag & ignore flag for signal {signum}
  MDBGSIGNAL -S:SYNC {signum(s)} - Show value of signal {signum}
  MDBGSIGNAL -I:ON {signum(s)} - Turn on ignore-global debug flag for signal {signum}
  MDBGSIGNAL -I:OFF {signum(s)} - Turn off ignore-global debug flag for signal {signum}
  {signum(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 signum(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.
  Current Console Transaction ID: 0x00000000

```

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 {signum(s)} - Turn on signal-specific debug flag for signal {signum}
  MDBGSIGNAL -S:OFF {signum(s)} - Turn off signal-specific debug flag for signal {signum}
  MDBGSIGNAL -S:SHOW {signum(s)} - Show status of signal-specific debug flag & ignore flag for signal {signum}
  MDBGSIGNAL -S:SYNC {signum(s)} - Show value of signal {signum}
  MDBGSIGNAL -I:ON {signum(s)} - Turn on ignore-global debug flag for signal {signum}
  MDBGSIGNAL -I:OFF {signum(s)} - Turn off ignore-global debug flag for signal {signum}
  {signum(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 signum(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.

```

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")

```

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.

```

NETSTAT_DM

Network Statistic

```

NETSTAT_DM prints statistic per windowsCE port
NETSTAT_DM [port-name]
NETSTAT_DM -P -- prints all ports in the system

```

NUMNOHBRESPonsect

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

OCSP	Display/Set OCSP configuration for SSL communication.
-------------	--

OCSP -L:OFF|STAPLEONLY|ONLINE {-N:NumOfNonces} {-T:TimeoutInSeconds}
where 'OFF' is no OCSP verification,
where 'STAPLEONLY' check certificate staple (no staple is a failure),
where 'ONLINE' checks staple, if no staple then check validity with responder,
where '-N:#' sets the number of nonces (currently 0 is none, any non-zero means use a nonce.)
where '-T:#' sets the timeout in seconds to connect to responder (for ONLINE only)
No parameter - displays current settings

OOTBF	Console command to enable OOTBF debug data
--------------	---

debug
grid
ver
errtest
OOTBF Debug is off

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	(*) Generates packets
---------------	------------------------------

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

Options:
-N: Do not clear character buffer before building
-B: Build a packet using {packet options}
-S:{Network to send to}
 E: Send completed packet via main Ethernet
 C: Send completed packet via main cresnet
-R:"...": Build a raw packet from the contents of the string "..."
 "\x" style sequences are legal. COUNT byte is auto-computed (NTX style)
-F:form: Use Form "form" to build the packet.
-P: Print current buffer
-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
 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

PASSTORCON

PASSTORCON command

DMRCON all [slot decSlot][.subslot hexSlot..] [command string]

PAUSEPROG

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

PHYOPER

Operates on 88E1114 PHY

PHYOPER -Lon/off/read -- set on/off link status polling

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.

PORTDUMP

Dumps all registers related to the port of switch

PORTDUMP[portNumber]
Dump all port related registers

PORTMIB

Print port MIBs

PORTMIB [port]
Print port MIBs

PORTPHYSET

Set 88E1114 PHY for 100M/1G link

PORTPHYSET [portNumber] [1G or 100M]
Set external PHY 88E1114 for 1G or 100M link

PORTSTATE

Print port state

PORTSTATE [portNumber/all]
Print port or all ports state

PPNDISCOVER

Show all PPN devices on cresnet

PPNDISCOVER

PRINTAUDITLOG	Print the audit log.
No help available for this command.	
PROGCOMments	(*) Shows program "Comment" symbols
<pre> PROGCOMMENTS[:program#] program#: number of program to execute. (default=1) No arguments necessary. </pre>	
PROGINFO	(*) Shows Program Statistics
<pre> PROGINFO[:program#] {No arguments} program#: number of program to execute. (default=1) Shows program information. </pre>	
PROGLOAD	Loads the specified program
<pre> 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. </pre>	
PROGREAdy	Sends the program ready status
<pre> PROGREADY No parameter needed - displays current program ready status </pre>	
PROGREGister	Registers/Unregisters the specified program
<pre> 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 </pre>	
PROGRESet	Restarts the specified program
<pre> PROGRESSET {-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 (PROGRESSET normally preserves DBG SIGNAL flags). </pre>	
PROGSTATS	(*) Shows statistics on the current program
<pre> PROGSTATS[:program#] program#: number of program to execute. (default=1) No arguments necessary. </pre>	
PROGUPTIME	(*) Display the time the program is running
<pre> PROGUPTIME[:program#] program#: number of program to execute. (default=1) No arguments necessary. </pre>	
PUSHUPDATE	Update Main, Blades, and attached Endpoints

PushUpdate Version 1.3.1.1, Built Friday, June 16, 2017 at 9:40:39 AM
 SmartUpdatePortable Built Friday, June 16, 2017 at 9:35:11 AM

Usage: PushUpdate [UNZIP|TEST|RESUME|FULL|LASTREPORT|PARAMS|CANCEL]
 no options - prints this help
 UNZIP = unzips update files
 TEST = prints updates that will be performed
 RESUME = performs updates previously printed by TEST
 FULL = equivalent to running TEST and RESUME
 LASTREPORT = prints most recent human readable update report
 PARAMS = prints parameter info (such as registry-configurable settings)
 CANCEL = safely cancels an update in progress

Usage: PushUpdate ATOMIC [method] [filename] [ip]
 Performs atomic update.
 method = Atomic update method, such as EndpointFirmware
 filename = Name of desired file. Must be in extracted path
 ip = IP address of target host

Usage: PushUpdate REPORTDM [ON|OFF]
 Enables or disables use of REPORTDM to accelerate version recon.

Usage: PushUpdate VERALL [ON|OFF]
 Enables or disables use of VERALL feature to allow advanced application upgrades (LogosDebug).

RAMFree	Show available RAM file space
----------------	--------------------------------------

? RAMFREE
 no parameters needed

RCONPING	Shows all blades and endpoints that respond to RCON
-----------------	--

? 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..3>
 subaddr - sub-address in hex, e.g. register addr

```

device | name
=====
00     | CP3-PRO3 GPIO Expander PCA9539
01     | CP3-PRO3 RealTimeClock DS3231
02     | CP3-PRO3 Power mang ic on CPU board
03     | PRO3 EDID eeprom IC
  
```

REBOOT	Perform system reboot
---------------	------------------------------

REBOOT - reboot system

REBLOCKEDip	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

REMASTER	Console command to remove the Peer System IP Address and IPID
-----------------	--

Peer System Unregistration failed

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.

REMPORTMAP

Remove a port map from the NAT table

```

REMPORTMAP ext_port int_port ip_address protocol
ext_port - port number on the WAN side of NAT
int_port - port number on the LAN side of NAT (ignored)
ip_address - IP address (in dot decimal notation) (ignored)
           of the device on the LAN side of NAT
protocol - IP protocol for the portmap service (TCP | UDP | Both)

```

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

```

REPORTDM

Reports DM Devices

```

REPORTDM:
Reports DM topology:

```

REPORTPPNTABLE

Displays Cresnet PPN table if available

Displays Cresnet PPN table if available

RESETPassword

Reset an existing local user's password

No help available for this command.

RESTORE

Restore factory defaults

```

RESTORE
No parameter

```

RESUMEPROG

Resumes Specified Program

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

RESW

Read one register from ethernet switch

RESW [device_addr_hex] [register_addr_hex]
Read one register of ethernet switch

RGIO

Read GIO pin on the MFMSys Blade

RGIO [pin_index]

Pin Name	Pin	Name	
00: TP37	01:	FAN_POWER_EN	02: FAULT_LED (RED)
03: PGOOD_LED (GREEN)	04:	CRESNET_RXEN_TXEN_N	05: EXT_ETH_PHY_RST_N
06: MEZZ_LAN_ETH_PHY_RST_N	07:	MEZZ_RST_OUT	08: PROC_INIT_DONE
09: BASE_ID0	0A:	BASE_ID1	0B: BASE_ID2
0C: LVDS_PARA_VIDEO_PWDN_N	0D:	FP_SETUP_BUTTON	0E: UNUSED_02
0F: UNUSED_03	10:	UNUSED_04	11: BOARD_ID0
12: BOARD_ID1	13:	BOARD_ID2	14: BOARD_ID3
15: BOARD_ID4	16:	BOARD_ID5	17: BOARD_ID6
18: BOARD_ID7	19:	BOARD_REV0	1A: BOARD_REV1
1B: SYSID_REV0	1C:	SYSID_REV1	1D: SYSID_REV2
1E: RSVD_FP_ID0	1F:	RSVD_FP_ID1	20: TP10
21: MEZZ_USB_ETH_CONT_RST_N	22:	MEZZ_FRONT_PANEL_RST_N	23: USB_PORT3_ENABLE_N
24: USB_PORT4_ENABLE_N	25:	MEZZ_ETH_SWITCH_RST_N	26: USB_PORT1_ENABLE_N
27: USB_PORT2_ENABLE_N	28:	USB_ETH_PHY_RST_N	29: TP70
2A: RSVD_FP_SPARE0	2B:	RSVD_FP_SPARE1	2C: CPU1_MEZZ_GPIO_1
2D: CPU1_MEZZ_GPIO_2	2E:	CPU2_MEZZ_GPIO_1	2F: CPU2_MEZZ_GPIO_2
30: TP34	31:	MEZZ_CPU1_GPIO_1	32: MEZZ_CPU1_GPIO_2
33: MEZZ_CPU1_GPIO_3	34:	MEZZ_CPU2_GPIO_1	35: MEZZ_CPU2_GPIO_2
36: MEZZ_CPU2_GPIO_3	37:	MEZZ_CPU1_RESET_N	38: MEZZ_CPU2_RESET_N

RI2C

Read I2C device on the MFMSys Blade

RI2C [device] [subaddr] [number of bytes]
Read I2C device

Idx Device

- 00: PCA9698_U43_GPIO_EXP1
- 01: LM63_U126_TMP_SENSOR
- 02: EEPROM_U103
- 03: LM77_U215_TMP_SENSOR1
- 04: LM77_U216_TMP_SENSOR2

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.

RMII

Read MII device on the MFMSys Blade

RMII [device address] [register address]
Read one address on MII bus

RMLOGerr

Enable logging errors to the file.

RMLOGERR [OFF|ON] -F:{Filename} -S:{MaxSize} -N:{MaxNumOfFiles} {OK | INFO | 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\Impl\AppXX)
IPT - Copy the IPTABLE also if exists
Note: program MUST be stopped to transfer

ROUTESYMSTAT	(*) Check Connection status of route symbols
<p>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</p>	
RPRTCRESNETIDBYPPN	Report cresnet ID by PPN
<p>RPRTCRESNETIDBYPPN [4 Byte Hex PPN Number]</p>	
RPRTPPNBYCRESNETID	Report PPN by cresnet ID
<p>RPRTPPNBYCRESNETID [Cresnet Id in Hex]</p>	
RSTPCONFIG	Configure RSTP Bridge/Port
<p>RSTPCOnfig [parameter] [paramval] Global Parameter List state : : paramval 0 - Off : paramval 1 - On : paramval 2 - All Backplane Ports Off On-The-Fly - paramval 2 does not persist across reboot</p> <p>RSTPCOnfig [SlotType] [Slot#] [paramval] Set Individual Port State : <SlotType Slot#> paramval 0 - Off : <SlotType Slot#> paramval 1 - On</p> <p>DM Slot Types dminput : <Slot#> <paramval> dmoutput : <Slot#> <paramval> Output Slot# starts at Max Input Slot# + 1 external : <no Slot#> <paramval></p>	
RSTPSTATUS	Report RSTP Bridge/Port Status
<p>RSTPStatus [0] No parameter - Display RSTP state and status of bridge and all ports 0 - Display bridge status</p>	
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 conne
networks)
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

```

SELFTTEST

Front Panel Test Command

```

Self Test Command:
Selftest [ fp | q ]
Selftest fp - test front panel

```

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)
```

SETANALYZEPORT

Set ingress/egress analyze port

```
SETANALYZEPORT [-I][ingress_port_number]
SETANALYZEPORT [-E][egress_port_number]
SETANALYZEPORT No parameter: print current ingress/egress analyze port
Set analyze ingress/egress port
```

SETAVROUTE

Switch AV route

```
SETAVROUTE [INPUT]
Single channel: Enter a value between 0 and 11
0 - automatic switching, 1-10 - inputs
11 - break the route
```

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.

SETMIRROR

Set mirroring

```
SETMIRROR [-I][port ingress traffic] [on/off]
SETMIRROR [-E][port egress traffic] [on/off]
SETMIRROR No parameter: print mirror status for all ports
Set mirror status
```

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.
```

SETPKTMASK

Set Egress rate limit

```

SETPKTMASK [-S:{slotType} -P:{slotNumber} -T:{maskType} -M:{mask}]
-S: specifies the 0-based Slot type
    0 - dminput slot
    1 - dmoutput slot
    2 - LAN
    3 - CPU
    4 - Backplane
    5 - DM
    6 - Service LAN
-P: specifies the 1-based Slot number
-P: use 0-based for CPU port
-T: specifies the 0-based Mask type
    0 - Egress Set on CPU
    1 - Egress Set on non-CPU port
-M: specifies the 0-based packet type mask
    0 - unknown unicast
    1 - unknown multicast
    2 - broadcast
    3 - multicast
    4 - unicast
    5 - management frame
    6 - arp
    7 - mac control
    8 - tcp data
    9 - tcp control
    10 - udp
    11 - non-tcpudp
    12 - ingress monitor source (IMS)
    13 - policy mirror
    14 - policy trap
    15 - unknown source address
    16 - clear packet mask
        - Valid Pkt Masks:
            All except:
            7-mac control
    15-unknown source address

```

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]

SETRATECONTROL

Set Ingress Packet Mask

```

SETRATECONTROL [SlotType] [Slot#] [ParamValue]
Valid slottype:    <dm><cpu><backplane> <Slot#> <ParamValue>

```

Valid Rate Limit Ranges are:

```

64KB ~ 1MB : increments of 64KB
1MB ~ 100MB : increments of 1MB, and
100MB ~ 200MB : increments of 10MB
Therefore, the valid paramval are in Kpbs:
0, 64, 128, 192, 256, 320, 384,..., 960
1000, 2000, 3000, ..., 100000,
10000, 110000, 120000, ..., 200000.
64K, 128K, 192K, ..., 1M, 2M, ..., 100M, 110M, ...,200M
No decimal point allowed. Numeric value before decimal point will be treated as Kbps
0 to turn off egress, e.g. egressratelimit cpu 0 0

```

SETRCONPINGDELAY

Set delay timer for RCON command

```

SETRCONPINGDELAY [Msec]
SETRCONPINGDELAY DEFAULT : 0

```

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).

```


SETSYSTEMID	Set DM System Id																																																																																																																					
<p>SETSYSTEMID [-S:{SysId}] -S: specifies the 1-based System ID - Min=[1], Max=[64] No Parameter: display current System Id</p>																																																																																																																						
SETTBCLIENTCONFRVR	Set Console Client to try and reconnect after a disconnect																																																																																																																					
<p>SETTBCLIENTCONFRVR [ON OFF] Sets Console Client to reconnect after a disconnect</p>																																																																																																																						
SETTBCLIENTIPA	Set Console Client Server IP Address																																																																																																																					
<p>SETTBCLIENTIPA [ip_address HostName] ip_address - IP address in dot decimal notation HostName - TBClient server hostName</p>																																																																																																																						
SETTBCLIENTNUMRETRY	Set Console Client number of retries																																																																																																																					
<p>SETTBCLIENTNUMRETRY [numberofretries] numberofretries - Max number of retries 0 indicates that the console client connection will keep on trying to connect to the server</p>																																																																																																																						
SETTBCLIENTPORTNUM	Set Console Client Server Port Number																																																																																																																					
<p>SETTBCLIENTPORTNUM [portnumber] portNumber - Port Number in decimal notation</p>																																																																																																																						
SGIO	Set GIO pin on the MFMSys Blade																																																																																																																					
<p>SGIO [pin_index]</p> <table border="0"> <thead> <tr> <th>Pin Name</th> <th>Pin</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>00: TP37</td> <td>01:</td> <td>FAN_POWER_EN</td> </tr> <tr> <td>03: PGOOD_LED (GREEN)</td> <td>04:</td> <td>CRESNET_RXEN_TXEN_N</td> </tr> <tr> <td>06: MEZZ_LAN_ETH_PHY_RST_N</td> <td>07:</td> <td>MEZZ_RST_OUT</td> </tr> <tr> <td>09: BASE_ID0</td> <td>0A:</td> <td>BASE_ID1</td> </tr> <tr> <td>0C: LVDS_PARA_VIDEO_PWDN_N</td> <td>0D:</td> <td>FP_SETUP_BUTTON</td> </tr> <tr> <td>0F: UNUSED_03</td> <td>10:</td> <td>UNUSED_04</td> </tr> <tr> <td>12: BOARD_ID1</td> <td>13:</td> <td>BOARD_ID2</td> </tr> <tr> <td>15: BOARD_ID4</td> <td>16:</td> <td>BOARD_ID5</td> </tr> <tr> <td>18: BOARD_ID7</td> <td>19:</td> <td>BOARD_REV0</td> </tr> <tr> <td>1B: SYSID_REV0</td> <td>1C:</td> <td>SYSID_REV1</td> </tr> <tr> <td>1E: RSVD_FP_ID0</td> <td>1F:</td> <td>RSVD_FP_ID1</td> </tr> <tr> <td>21: MEZZ_USB_ETH_CONT_RST_N</td> <td>22:</td> <td>MEZZ_FRONT_PANEL_RST_N</td> </tr> <tr> <td>24: USB_PORT4_ENABLE_N</td> <td>25:</td> <td>MEZZ_ETH_SWITCH_RST_N</td> </tr> <tr> <td>27: USB_PORT2_ENABLE_N</td> <td>28:</td> <td>USB_ETH_PHY_RST_N</td> </tr> <tr> <td>2A: RSVD_FP_SPARE0</td> <td>2B:</td> <td>RSVD_FP_SPARE1</td> </tr> <tr> <td>2D: CPU1_MEZZ_GPIO_2</td> <td>2E:</td> <td>CPU2_MEZZ_GPIO_1</td> </tr> <tr> <td>30: TP34</td> <td>31:</td> <td>MEZZ_CPU1_GPIO_1</td> </tr> <tr> <td>33: MEZZ_CPU1_GPIO_3</td> <td>34:</td> <td>MEZZ_CPU2_GPIO_1</td> </tr> <tr> <td>36: MEZZ_CPU2_GPIO_3</td> <td>37:</td> <td>MEZZ_CPU1_RESET_N</td> </tr> <tr> <td></td> <td>02:</td> <td>FAULT_LED (RED)</td> </tr> <tr> <td></td> <td>05:</td> <td>EXT_ETH_PHY_RST_N</td> </tr> <tr> <td></td> <td>08:</td> <td>PROC_INIT_DONE</td> </tr> <tr> <td></td> <td>0B:</td> <td>BASE_ID2</td> </tr> <tr> <td></td> <td>0E:</td> <td>UNUSED_02</td> </tr> <tr> <td></td> <td>11:</td> <td>BOARD_ID0</td> </tr> <tr> <td></td> <td>14:</td> <td>BOARD_ID3</td> </tr> <tr> <td></td> <td>17:</td> <td>BOARD_ID6</td> </tr> <tr> <td></td> <td>1A:</td> <td>BOARD_REV1</td> </tr> <tr> <td></td> <td>1D:</td> <td>SYSID_REV2</td> </tr> <tr> <td></td> <td>20:</td> <td>TP10</td> </tr> <tr> <td></td> <td>23:</td> <td>USB_PORT3_ENABLE_N</td> </tr> <tr> <td></td> <td>26:</td> <td>USB_PORT1_ENABLE_N</td> </tr> <tr> <td></td> <td>29:</td> <td>TP70</td> </tr> <tr> <td></td> <td>2C:</td> <td>CPU1_MEZZ_GPIO_1</td> </tr> <tr> <td></td> <td>2F:</td> <td>CPU2_MEZZ_GPIO_2</td> </tr> <tr> <td></td> <td>32:</td> <td>MEZZ_CPU1_GPIO_2</td> </tr> <tr> <td></td> <td>35:</td> <td>MEZZ_CPU2_GPIO_2</td> </tr> <tr> <td></td> <td>38:</td> <td>MEZZ_CPU2_RESET_N</td> </tr> </tbody> </table>		Pin Name	Pin	Name	00: TP37	01:	FAN_POWER_EN	03: PGOOD_LED (GREEN)	04:	CRESNET_RXEN_TXEN_N	06: MEZZ_LAN_ETH_PHY_RST_N	07:	MEZZ_RST_OUT	09: BASE_ID0	0A:	BASE_ID1	0C: LVDS_PARA_VIDEO_PWDN_N	0D:	FP_SETUP_BUTTON	0F: UNUSED_03	10:	UNUSED_04	12: BOARD_ID1	13:	BOARD_ID2	15: BOARD_ID4	16:	BOARD_ID5	18: BOARD_ID7	19:	BOARD_REV0	1B: SYSID_REV0	1C:	SYSID_REV1	1E: RSVD_FP_ID0	1F:	RSVD_FP_ID1	21: MEZZ_USB_ETH_CONT_RST_N	22:	MEZZ_FRONT_PANEL_RST_N	24: USB_PORT4_ENABLE_N	25:	MEZZ_ETH_SWITCH_RST_N	27: USB_PORT2_ENABLE_N	28:	USB_ETH_PHY_RST_N	2A: RSVD_FP_SPARE0	2B:	RSVD_FP_SPARE1	2D: CPU1_MEZZ_GPIO_2	2E:	CPU2_MEZZ_GPIO_1	30: TP34	31:	MEZZ_CPU1_GPIO_1	33: MEZZ_CPU1_GPIO_3	34:	MEZZ_CPU2_GPIO_1	36: MEZZ_CPU2_GPIO_3	37:	MEZZ_CPU1_RESET_N		02:	FAULT_LED (RED)		05:	EXT_ETH_PHY_RST_N		08:	PROC_INIT_DONE		0B:	BASE_ID2		0E:	UNUSED_02		11:	BOARD_ID0		14:	BOARD_ID3		17:	BOARD_ID6		1A:	BOARD_REV1		1D:	SYSID_REV2		20:	TP10		23:	USB_PORT3_ENABLE_N		26:	USB_PORT1_ENABLE_N		29:	TP70		2C:	CPU1_MEZZ_GPIO_1		2F:	CPU2_MEZZ_GPIO_2		32:	MEZZ_CPU1_GPIO_2		35:	MEZZ_CPU2_GPIO_2		38:	MEZZ_CPU2_RESET_N
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SHOWHW	Display hardware configuration																																																																																																																					
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SHOWLICENSE	Display list of licensed application(s).
SHOWLICENSE - display list of licensed application(s).	
SHOWPORTMAP	Display the current portmaps for the NAT
SHOWPORTMAP [v] Displays the NAT ports in table form	
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 not supported in this build.	
SL252DEBUG	Returns the MFMSys version number
Mfs_System Debug Usage: SL1DEBUG [HEX ASCII MIXED][index] [flag]: where [index]is 0,1 and [flag] is 0, 1	
SL8DEBUG	Enables the Debug prints
SL8DEBUG Usage: SL8DEBUG [HEX ASCII MIXED][index] [flag]: where [index]is 0,1 and [flag] is 0, 1	
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
SPSHOWPOOLERR	(*) S+ Show Smart Thread Pool Error.
SPSHOWPOOLERR[:program#] Show Thread Pool Errors	
SSHARPDebug	(*) Set SimpiSharpPro Debugs
SSHARPDebug[:program#] {Parameters} APPTOTLDMSENDMESSAGETIMEOUT time 10000 Timeout for sending messages to the TLDM in ms TLDMTOAPPSSENDMESSAGETIMEOUT time 20000 Timeout for receiving messages from the TLDM in ms SENDTOTLDMTIMEOUT time 10000 Timeout for SendToTldmEx() calls in ms HEARTBEAT number Disabled Number of Heartbeats before app manager forces a restart. UPREQTIMEOUT number 30000 Timeout for obtaining Join collection mutexes for normal access/update req. BUILDIFOFFLINE ON OFF OFF Build/Send packet even if device is offline. SENDPARAMETERS ON OFF OFF Always obey SendParameters() call. PJG ON OFF OFF Page Join Gating debugs. UPREQ ON OFF OFF Update Request debug. PJGTIMEOUT time 10200 Timeout for to wait for Page Join Gating Sync event DMPS3 ON OFF OFF Show some DMPS3 debug info. ERSLEEPY Show ErSleepy device information. DTADELAY OFF TLDM Data to App Delay debugs.	
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

SSLVERIFY

Display/Set SSL certificate verification.

SSLVERIFY [OFF | CA]
 where 'OFF' disables checking certificates (allow both SELF and CA certificates),
 where 'CA' ensures that the certificate is issued by a CA,
 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.

STARTTBCLIENT

Enables Console Client Connection

STARTTBCLIENT
 Enables Console Client connection

STOPLIGHTBYPPn

Stop Light And Poll mode

Valid options are:
 Status if no arguments
 Syntax: STOPLIGHTBYPPN [4 byte Hex Adr]|ALL [SHOW]

STOPMFS_SYSTEM

Shut down the Mfs_System interfaces.

STOPMfs_System
 Stop all Mfs_System Interfaces.
 No parameters

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)

STOPTBCLIENT

Disable Console Client Connection

STOPTBCLIENT
 Disables Console Client connection - will break connection

SUDO

Sudo Command

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

SUSERPROG CMD

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

SUSERPROGCMD[: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

SYMDEBUG

(*) Symbol debug operations

SYMBOLDEBUG {Parameters}
 -ON:#### : Turn on Debug for Symbol ####.
 -OFF:#### : Turn off Debug for Symbol ####.
 -L : List symbols being debugged.
 -C : Clear debugging bits for all symbols.
 -S : Save debug symbol list to registry.

SYMSETSIG

(*) Set the state of a 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 S+ 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

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

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

USERPROGCM[: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.

VLANADD	Add Vlan to Eswitch
----------------	----------------------------

VLANADD [device Id] [vlanId_hex]
 Add VLAN to Eswitch

VLANDEL	Delete Vlan from Eswitch
----------------	---------------------------------

VLANDEL [device Id] [vlanId_hex]
 Delete VLAN from Eswitch

VLANPORTADD	Add port to Vlan
--------------------	-------------------------

VLANPORTADD [vlanId_hex] [port] [egrTag]
 Add port to VLAN

VLANPORTDEL	Delete port from Vlan
--------------------	------------------------------

VLANPORTDEL [vlanId_hex] [port]
 Delete port from VLAN

VLANPRINT	Print VLAN configuration
------------------	---------------------------------

VLANPRINT [device Id] [vlanId_hex]
 Print VLAN config

VLANSETINGRTAG	Set Ingress tagging for port
-----------------------	-------------------------------------

VLANSETINGRTAG [port] [0-assignToAll/1-assignToUntag]
 Set PVID (port based Vlan Id)

VLANSETPVID	Set PVID (Port base Vlan Id)
--------------------	-------------------------------------

VLANSETPVID [vlanId_hex] [port]
 Set PVID (port based Vlan Id)

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 0 symbols executed after a
 "Could not solve logic within 1500 waves." error to Console. Currently OFF.
- F:ON|OFF Dump list of last 0 symbols executed after a
 "Could not solve logic within 1500 waves." error to File. Currently OFF.
- S:# Store information for up to this number of symbols (Currently 0)
- 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

WESW

Write one register from ethernet switch

WESW [deviceAddr_hex] [registerAddr_hex] [data_hex]
Write one register of ethernet switch

WHO

Generate a report of the Ethernet consoles

WHO
No Parameter necessary

WHOAmi

Display current user's identity

WHOAMI
No parameters needed.

WI2C

Write I2C device on the MFMSys Blade

WI2C [device] [byte0] ... [byteN]
Write I2C device
Idx Device
00: PCA9698_U43_GPIO_EXP1
01: LM63_U126_TMP_SENSOR
02: EEPROM_U103
03: LM77_U215_TMP_SENSOR1
04: LM77_U216_TMP_SENSOR2

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.

WMII

Write MII device on the MFMSys Blade

WMII [device address hex] [register address hex] [data hex]
Write one address to MII bus

WRITEI2C

Write i2c data

WRITEI2C [device] [subaddr] [byte0] ... [byteN] - write I2C device
device - device index, range <0..3>
subaddr - sub-address in hex, e.g. register addr
[byte0..byteN] - data in hex

device | name
=====

00	CP3-PRO3 GPIO Expander PCA9539
01	CP3-PRO3 RealTimeClock DS3231
02	CP3-PRO3 Power mang ic on CPU board
03	PRO3 EDID eeprom IC

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