Industrial Automation

Tech Note 37   Crimson® 3 System Menu

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Abstract:

This document explains how to use the system menu included with devices running Crimson 3.

Products:

CR1000 / CR3000 / G3 Series HMI / G3 Kadet HMI / Graphite® HMI

Use Case: Using the Crimson 3 System Menu

The Crimson 3 runtime has been extended to support a system menu. This replaces the various options
that were invoked by holding down specific key combinations during startup (with G3 HMIs), and
provides some additional features relating to saving and restoring configuration information

Required Software:

Crimson 3.0 or Crimson 3.1

Required Firmware:

Crimson 3.0 build 619.002+, all versions of Crimson 3.1

ACCESSING THE SYSTEM MENU
Depending on the HMI family, the system menu is accessed in the following manner:

CR1000 and CR3000 HMIs
Depress the reset button on the side of the unit while applying power. Continue to hold down the reset button until the system menu appears.

Graphite HMIs
Depress the reset button on the back of the unit while applying power. Continue to hold down the reset button until the system menu appears.

G3 HMIs
Hold down the first two soft-keys while applying power to the unit. After the copyright page appears the screen will go blank. Releasing the soft-keys at this point will then show the system menu.

Kadet HMIs
Set the number 1 and 2 DIP switches on the back of the unit to ON and then apply power, the system menu will appear.

Upon entering the System Menu, factory touchscreen calibration values are used. These values will be used until power is cycled or a calibration is performed. The menu is designed to operate with an incorrectly calibrated touchscreen. When the screen is pressed, the selected button will turn red. If this is correct, the screen can be held until the button turns green, at which point releasing the screen will select the option. If an incorrect choice (button) turns red, the screen can be immediately released without activating the option, allowing different touch points to be used until the desired option (button) turns red. Continuing to press the screen at that point will allow the desired button to turn green and then activate the correct option when released.

SYSTEM MENU OPTIONS
The following utilities are available via the System Menu:

DATABASE UTILITIES
Clear Database
Yes – Selecting "Yes" will clear the database from the unit's memory.
No – Selecting "No" will return the screen to the "Database Utilities" menu.

Database Image Menu
Load Image from Memory Card
Yes – This selection will force the HMI to load the database image currently saved on the memory card regardless of whether or not that saved database image had been previously loaded into the unit.
No – Selecting "No" will return the screen to the "Database Utilities" menu.
Back – This selection will return the screen to the "Database Utilities" menu.

Back
Selecting "Back" at this level will return the screen to the main system menu.

SYSTEM UTILITIES
Touch Menu
Touch Calibration – This selection will enable the touch calibration screen. After the calibration sequence is complete, the screen will time out and return to the "Touch Menu."
Touch Test – This selection brings up the touch test screen. It will time out and return to the "Touch Menu" unless presses are made on the screen. Each press, or touch test, resets the timeout timer to 15 seconds.
Back – Selecting "Back" at this level will return the screen to the "Systems Utilities" menu.

Memory Menu
Format Memory Card
Yes – This selection will format the memory card in the HMI. All data on the memory card will be erased if this option is selected and executed.
No – Selecting "No" will return the screen to the "Memory Menu."

Format USB Stick
Yes – This selection will format the USB memory stick in the HMI. All data on the memory stick will be erased if this option is selected and executed.
No – Selecting "No" will return the screen to the "Memory Menu."
Mount Drives – This selection will mount any un-mounted memory cards or USB memory sticks such that they can be read and written to by the HMI.
Back – Selection "Back" at this level will return the screen to the "Systems Utilities" screen.

Clock Menu
Edit Time and Date – This selection will allow you to manually set both time and date.
Back – Selection "Back" at this level will return the screen to the "Systems Utilities" screen.

Back
Selecting "Back" at this level will return the screen to the main system menu.

NETWORK SETTINGS
Show Settings - This selection will display network settings that were entered while in the system menu. It will *not* display network settings associated with a previously loaded database as no database is as yet running on the HMI when in the system menu.
Okay – Selecting "Okay" will return the screen to the "Network Settings" menu.

Edit Download Port
Yes – By selecting "Yes" you will, by necessity, clear a previously loaded database if one exists on the unit. After selecting "Yes" a keypad will appear and the desired port number can be entered. Once entered, a screen will appear showing the port number.
Okay – Selecting "Okay" will return the screen to the "Network Settings" menu.
No – Selecting "No" will return the screen to the "Network Settings" menu.

Configure by DHCP
Yes – By selecting "Yes" you will, by necessity, clear a previously loaded database if one exists on the unit. After selecting "Yes" the unit will be configured for TCP/IP download.
Okay – Selecting "Okay" will return the screen to the "Network Settings" menu.
No – Selecting "No" will return the screen to the "Network Settings" menu.

Configure Manually

Yes – By selecting "Yes" you will, by necessity, clear a previously loaded database if one exists on the unit. After selecting "Yes" the "TCP/IP Link Manual" menu will appear.

TCP/IP Link Manual Menu

Edit IP Address – After selecting "Edit IP Address" a keypad will appear allowing you to manually enter the desired IP address. Once entered, a screen will appear showing the IP address.
Okay – Selecting "Okay" will return the screen to the "TCP/IP Link Manual" menu.

Edit Network Mask – After selecting "Edit Network Mask" a keypad will appear allowing you to manually enter the desired network mask. Once entered, a screen will appear showing the network mask.
Okay – Selecting "Okay" will return the screen to the "TCP/IP Link Manual" menu.

Edit Gateway – After selecting "Edit Gateway" a keypad will appear allowing you to manually enter the desired gateway. Once entered, a screen will appear showing the gateway.
Okay – Selecting "Okay" will return the screen to the "TCP/IP Link Manual" menu.

Back – Selection "Back" will return the screen to the "Network Settings" menu.

No – Selecting "No" will return the screen to the "Network Settings" menu.
Back – Selecting "Back" at this level will return the screen to the main system menu.

CONTINUE

Selecting "Continue" from the main system menu will prompt one of three actions:

1. If no steps were taken to clear an existing database, that database will be loaded and then run on the HMI.
2. If an existing database was cleared via the "Database Utilities" menu, the HMI will then show an "Invalid Database" screen. A database can then be downloaded to the unit via, USB, serial or memory card.
3. If the network settings were entered manually, the HMI will then show an "Invalid Database" screen. The unit's power needs to be cycled before a database can be downloaded via TCP/IP, USB, serial or memory card.

For more information: http://www.redlion.net/support/policies-statements/warranty-statement