Product Update

CHEETAH XI FIRMWARE VERSION 6.20 & C-LINX V6.2.0.0

Fike is pleased to announce the next release of our Cheetah Xi operating Firmware V6.20 and C-Linx Software (06-327) version V6.2.0.0. This document will detail the changes.

Existing installations do not require the firmware update but if a replacement for one of the controllers below is made, it will include the new version 6.20 firmware unless specifically requested to be an earlier version. The main controller "PIC" for the loop controller remains unchanged at V5.00, however the Supplemental Loop Module microprocessor was updated to V5.00a. This Product Update is to document and communicate the changes made in the firmware. Assemblies affected by this update are:

10-2542 Cheetah Xi Controller
10-2622 Cheetah Xi 50 Controller
10-2473 Supplemental Loop Module (SLM)
10-2583 Multi-Interface Module (MIM)
10-xxxx Computer's for Precise Vision UL operation

We strongly ENCOURAGE you to update your C-Linx software, to the newest V6.2.0.0. It is fully compatible with all previous versions of Cheetah Xi firmware except version 1.0. As a reminder, a few of the features added in V6.2.0.0 will not be available with older version panels. Please go to the website (www.fike.com) and obtain the newest software for you and your staff.

Firmware changes between V6.11 and V6.20 [Cyclic Redundancy Count (CRC) = 0B42]

1. **PRECISE VISION DEVICE DISABLE/ENABLE –** The Cheetah Xi panel, working with updated 10-2583 Multi-Interface (MIM) V4.20 firmware and UL Precise Vision V3.5.1, has been updated to perform Device Address Disable and Enable via the UL Precise Vision computer. The panel has been updated to receive commands from the MIM (V4.20 firmware required) via Precise (V3.5.1 software required) to disable/enable a list of devices (Panel id-loop number-device address). The panel records the disable/enable event in history and passed across the network. Networked panels receiving these history events will perform the action if the panel id in the history event matches the local panel id. V6.10 firmware added several related history events, 'Device RD' was added in V6.20. See page 4 for list of related events. Both panel and Precise Vision configuration settings must be set to 38,400 baud.

   a) **10-2583 Multi-Interface V4.20** – Added this ability to perform bi-directional commands. The MIM does an Auto-detect of the baud rate in this version.

   b) **Precise Vision Software V3.5.1** – provides ability to:
   - Disable device(s), Precise zone, or Precise group of devices – must first select device as disable-able in the Precise Vision configuration. Also requires setup of the zone or group in Precise prior to the disabling request.
   - New calendar event list to set up scheduled disable events - must be on site to log in to allow that schedule to start.
   - Manual disable – Can click/select device, then right-click to disable (if previously programmed to allow disable). Note: right click requires setup in device manager advanced options or similar.
   - Licensing changes to improve compatibility with Windows 7 and newer Operating Systems along with 64 bit systems.
   - Added new type devices – FAAST and various monitor module function types.
   - Default database now has 1 panel already in it.
   - Setup Com Ports – changed to 'Communication Paths' and now allows only com port for UL version and TCIP connection added for non-UL version.

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- Ability to bring up a virtual keypad using a touchscreen computer - check box is clicked to turn it on in the log in screen. Only works for numeric passwords for System Monitor and System Watch. There is a configuration within the touch screen PC to be able to utilize the right click disable from the touch screen PC without a keyboard. Control Panel settings can be used or contact Tech support for instructional documentation.
- Also related, new Comark Computer (UL Listed Touchscreen), new p/n now loaded with full Windows 7 and not embedded XP version (older 13-0190 models).

2. **C-LINX DEVICE READ –** V6.20 will automatically set the "device has been read" flag once C-Linx has completed configuring a device (slow download method). This negates the need to "read" the device from the device configuration menu.

3. **DISABLE DEVICE/AUTO READ** - Prior versions would not allow a Disable of a device until a READ was completed. V6.20 will now automatically perform a READ if a Disable is requested and the panel does not currently have a copy of the configuration.

4. **AUTO RESET UPON ADDRESSABLE DEVICE CONFIGURATION CHANGE** - When the memory map of an addressable device has been altered (ENABLE, DISABLE, WRITE, or pressing ENTER on Device Config Menu) the device requires a panel Reset. The panel therefore has a couple of timers to force a panel reset upon completion of these commands and no activity (more memory actions or switch presses) and timer reaching 0. The associated trouble event (Disabled Device, etc.) will occur after the Reset.

Device Configuration change issued from	Timer (seconds)
Panel menu	80
Precise Vision	10

5. **PANEL RESET TIMER, NETWORKED SYSTEMS –** When multiple panels are performing enable/disable actions invariably one finishes before the other. V6.20 will prevent the panel that has completed first from resetting until the other panel is finished.

6. **DEVICE DIAGNOSTIC READ STATUS –** The device diagnostic screen accessed from **DIAGNOSTIC MENU 1/F1-DEVICE/F1-TYPE LOC** has been modified to show more data. On the far right of line one is a character that indicates what kind of data is displayed on line 4. Current selections are "**D**" for device type and "**L**" for which device LEDs are illuminated. Two new selections have been added. They are "**R**" to indicate which devices have had their memory map ***read*** into panel memory (shown by an "**R**" in the device position of line 4) and "**d**" to indicate which devices are ***disabled*** (shown by a "**d**" in the device position of line 4).

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	L	O	O	P	:	N		A	D	R	:	0	0	1	-	0	2	0		D
B	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
C	*C*	*O*	*N*	*F*	*I*	*G*	*U*	*R*	*E*	*D*		*D*	*E*	*V*		*T*	*Y*	*P*	*E*	
D	*P*	*R*	*E*	*S*	*E*	*N*	*T*		*D*	*E*	*V*	*I*	*C*	*E*		*T*	*Y*	*P*	*E*	

Added 'R'(Read status) and 'd' (disable status)

7. **NEW ALARM UN-SILENCE OPTION –** V6.20 allows the user to select whether a new alarm event will un-silence the supervisory, trouble and process states. Previous operation forces the un-silence of these states upon a new event. Access this feature via the **F2-SILENC** selection on configuration menu 2. Line 3 shows **"ALARM UNSILENCE:YES** or **NO".** The factory default is YES. Changing this operation to NO will result in each state being separately un-silenced by the specific individual event state.

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	I	N	H	I	B	I	T	:	O	F	F			R	E	M	:	O	F	F
B	A	U	T	O		U	N	S	I	L	E	N	C	E	:	0	2	H	R	S
C	A	L	A	R	M		U	N	S	I	L	E	N	C	E	:	Y	E	S	
D																				

New option for Alarm Unsilence operation

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8. **CLEAR SIGNAL CODES –** A means has been added to clear all the zone signal codes (chime code). Prior Technical Bulletin advised of other steps for clearing Chime Code, where this newer method is much easier. Access the Signal Codes from the Config Menu 2, F5 Zone, F1 (hidden Menu for Signal/Chime Codes). You can now press F4 (a hidden selection) to bring up this new method of clearing the codes. Pressing Enter from this menu will clear all Signal/Chime codes and initialize them back to '0'.

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A						S	I	G	N	A	L		C	O	D	E				
B							Z	O	N	E		0	0	1						
C	P	R	E	S	S		E	N	T	E	R		T	O		C	L	E	A	R
D						A	L	L		C	O	D	E	S						

9. **POSTIVE ALARM SEQUENCE –**
   a) **Peripheral operation –** This version will accept the acknowledge switch coming from a peripheral device as a source for starting the investigative phase of PAS. These switches now operate in the same manner as the panel switch for PAS.
   b) **Network operation –** The acknowledge switch is now accepted from a different panel via the network. Once recorded from the network, the investigation phase begins in the same manner as if the panel switch was pressed.

10. **DEVICE CONFIGURATION READ SCREEN –** A means to read the configuration of all devices per loop on the panel (vs. by device address) has been added. If the panel has a copy of the device configuration it will be easier in the future to replace a device or recover from a Device Error 2000 (next item below). Access this new menu via Maintenance Menu 2 with the added selection **F4 – CFG RD**.

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A			R	E	A	D		A	L	L		D	E	V	I	C	E	S		
B			O	N		L	O	O	P	S	:	1	2	3	4					
C	P	R	E	S	S		E	N	T	E	R		T	O		S	T	A	R	T
D	D	E	V	I	C	E	S		T	O		R	E	A	D	:	0	0	0	0

From this screen the user can select which loops to read the configurations of all the devices on that loop. Move the cursor under the loop number to select/deselect a loop to read with the + and - switches. When the loop number is shown, the loop is selected for reading. When the Enter Button is pressed from this screen, the number 0000 will be replaced by the total number of devices the panel will read. This number will decrement each time a device has been read. If no other event is present on the system, the menu will be replaced by the Main Menu. Line 2 on the Main Menu/top-most screen (where is shows CHEETAH Xi on line 1) will show the device currently being read with ***READING DEV L-AAA*,** where L is the loop number and AAA is the address. Line 3 on the top-most screen will show the number of devices remaining to read with **DEV REMAINING: nnnn.** Both lines 2 and 3 on this screen return to normal after all devices have been read. Note: an event can occur that may cause this menu to be replaced, but the process is only interrupted and will continue once the event is processed. A Reset will fully interrupt and stop this Read process and it will not be continued and must be restarted, if desired.

11. **DEVICE ERROR 2000 –** A means to automatically correct for the DEVICE ERROR 2000 event on a device has been added. The auto correction involves writing the configuration of the device held in panel memory to the device once the event has been recorded. This feature will *not activate* when any of these states are active on the panel: Alarm, Supervisory, Evacuate, Alert, Fire or MNS messaging. To enable this feature you must call Fike Technical Support to review the site details. We will ask a list of questions and track which sites enable this feature. Once tech support obtains all info we will provide instruction using a Fike level 4 password to configure the system to provide for this new auto-correction:

Go to the device configuration screen and press **F4-DEVICE ERROR.**

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
A	F	1	-	A	L	A	R	M		F	E	A	T	U	R	E	S			
B																				
C	F	3	-	C	O	N	F	I	G	U	R	A	T	I	O	N		C	H	K
D	F	4	-	D	E	V	I	C	E		E	R	R	O	R					

New menu selection for Device Error

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Press F4 for this *new* menu:

	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
A	**D**	**E**	**V**	**I**	**C**	**E**		**E**	**R**	**R**	**O**	**R**		**T**	**R**	**O**	**U**	**B**	**L**	**E**	
B							**E**	**N**	**A**	**B**	**L**	**E**	**D**								← Enable/Disable the Trouble
C			**A**	**U**	**T**	**O**		**C**	**O**	**R**	**R**	**E**	**C**	**T**	**I**	**O**	**N**	**:**			Auto Correction Options:
D							**D**	**I**	**S**	**A**	**B**	**L**	**E**	**D**							← Disabled (default)

Enable +Panel Reset
Enable + Dev Restart

The first two lines of this screen allow for enabling or disabling the trouble annunciation of the error 2000 event. Setting line 2 to "disable" means the error 2000 event is recorded in history but is not treated as a trouble. The third and fourth line is the selection for **AUTO CORRECTION**. These three selections are given and are valid for all devices on the panel:

- **DISABLED –** This disables the feature, setting panel operation as per previous firmware versions.
- **ENABLE + DEV RESTART:** This enables the feature, i.e., once the error 2000 event is recorded an automatic device write begins. Once the write to the device is completed, an eclipse "re-start" command is sent to the device which in turn invokes the device to send a **"NEW DEVICE"** record followed by an **"ADDR LOOP ON LINE"** history event. The panel will not reset with this selection. This selection may cause devices with isolators to momentarily open. This may cause additional troubles – testing will prove out the validity of this selection.
- **ENABLE + PANEL RESET:** Similar to Enable + Dev Restart. Once the write sequence to the device is completed, the panel will start an 80 second countdown to panel reset. No "NEW DEVICE" or "ADDR LOOP ON LINE" is recorded here since the device re-start command is not sent. Also, isolators are not affected since the re-start is not sent.

HISTORY – A new history event is recorded once the automatic write feature is completed, AUTO CORRECT:L-ADR, noted in the event display info, next page.

EVENT DISPLAY	DESCRIPTION	RESOLUTION
AUTO CORRECT:L-ADR	The panel has completed an auto-correction for a Device Error 2000 trouble for an addressable device at the Loop L and device ADR. The panel sent the copy of the config that the panel held for that device.	Note the number of times this is completed and communicate the status with Fike Technical Support.
DEVICE RD:PNL-L-ADR	The panel has completed the Read process for an addressable device at the panel number PNL, Loop L and device ADR.	Locate the peripheral that requested the READ command.
DISABLE AT:PNL-L-ADR	A peripheral connected to Panel number PNL has disabled the device located at Loop number L and Address number ADR.	Locate the peripheral that disabled the device and re-enable the device.
ENABLE AT:PNL-L-ADR	A peripheral connected to Panel number PNL has enabled the device located at Loop number L and Address number ADR.	Locate the peripheral that enabled the device.
READ AT:PNL-L-ADR	A peripheral connected to Panel number PNL has read the device configuration located at Loop number L and Address number ADR.	Locate the peripheral that read the device.
WRITE AT:PNL-L-ADR	A peripheral connected to Panel number PNL has performed a write on the device configuration located a Loop number L and Address number ADR. A copy of the configuration held in the panel was sent to the device.	Locate the peripheral that sent the device configuration. Determine the reason for re-sending the device configuration.

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CHEETAH Xi™ MENU STRUCTURE (V6.20)

SYSTEM STATUS <ESCAPE> **SYSTEM EVENT** <ESCAPE> **FUNCTION SWITCH / TOP LEVEL MENU**

Time/Date
#alm, #supv, #trbl

F1 – EVENT SOURCE
F2 – EXPANDED CUSTOM MESSAGE

See Below

FUNCTION SWITCHES / TOP LEVEL MENU

F1- CONFIG [2-4]

CONFIGURATION MENU 1 [2-4]

- F1 – DEVICE ▶
  - F1 – ALARM FEATURES ---▶
    - F1 – DELETE DEVICE
    - F2 – READ/WRITE/ENA/DIS
  - F2 – RELEASE FEATURES
  - F3 – CONFIGURATION CHECK
  - F4 – DEVICE ERROR[4]
- F2 – NAC ------▶
  - F1 – NAC FUNCTIONS
  - F2 – NAC ZONE ASSIGNS
  - F3 – PROTOCOL
- F3 – SLC------▶
  - F1 – NEW DEVICE TROUBLE
- F4 – LEARN
- F5 –
- F6 – MENU 2 -▶ **CONFIGURATION MENU 2** [2-4]
  - F1 – TIME
  - F2 – SILENCE
  - F3 – POWER
  - F4 – DAY SEN -▶
    - F1 – DAYTIME SEN RANGE
    - F2 – SELECT HOLIDAYS
  - F5 – ZONE ------▶
    - F1 – SIGNAL CODE – (F4-CLR CODES)
    - F2 –
  - F6 – MENU 3 ---▶ **CONFIGURATION MENU 3** [2-4]
    - F1 – PERIPH -▶
      - F1 – DEVICE
      - F2 – SOURCE
      - F3 – SPEED
      - F4 – CMD SET
    - F2 – WALK
    - F3 – GROUND [4]
    - F4 - ABORT
    - F5 – SEN CHG
    - F6 – MENU 4-▶ **CONFIGURATION MENU 4** [2-4]
      - F1 – AC DEL
      - F2 – VESDA -▶
        - F1 – ALARM FEATURES
        - F2 – SECTOR ZONES
        - F3 – EVAX
        - F4 - RELEASE
        - F5 - COMMAND
      - F3 – AUXNAC-▶
        - F1 – AUX NAC FUNCTIONS
        - F2 – AUX NAC ZONES
      - F4 – PWR CUT
      - F5 – RELAYS -▶
        - F1 – SELECT MODULE
        - F2 – RELAY FUNCTIONS
        - F3 – RELAY ZONE ASSIGN
        - F4 – FAN RESTART MODE
      - F6 – MENU 5 -▶ ***CONTINUED ON NEXT PAGE***

F2 – HISTORY **HISTORY MENU**

- F1 – ALARM [1-4]
- F2 – SUPERV [1-4]
- F3 – TROUBL [1-4]
- F4 – EVENTS [1-4]
- F5 – ZONE [1-4]
- F6 – ERASE [3-4]

F3 – DIAG **DIAGNOSTICS MENU 1**

- F1 – DEVICE [1-4] --▶
  - F1 – TYPE LOC & LED [1-4]
  - F2 – SERIAL NUMBERS [1-4]
- F2 – VALU 1 [1-4]
- F3 – VALU 2 [1-4]
- F4 – LED TST [1-4]
- F5 – CRC [1-4]
- F6 – MENU 2------▶ **DIAGNOSTICS MENU 2**
  - F1 – KEYPAD [1-4]
  - F2 – VESDA 1 [1-4]
  - F3 – VESDA 2 [1-4]
  - F4 – PERIPH [1-4]-▶
    - F4 – FW VER
  - F5 – VE COM [1-4]
  - F6 – MENU 3 -▶ ***CONTINUED ON NEXT PAGE***

F4 – PASSWORD [1-4]

F5 – MAINT

- F1 – DEV RD [1-4]
- F2 –DEV ADR [1-4]
- F3 – DEV RPL [2-4]
- F4 – WALKTS [2-4]
- F5 – BUZZER [2-4]
- F6 – MENU 2 -----▶ **MAINTENANCE MENU 2**
  - F1 – MNS RST
  - F2 – MNS SIL
  - F3 – SW TIME
  - F4 – CFG RD

F6 - IR COMM [1-4]

PASSWORD ACCESS
(ACCESS LEVELS NOTED BY NUMBERS ON MENUS)

LEVEL 1 (CUSTOMER) – DOOR OPEN, NO PASSWORD ENTERED; VIEW EVENTS, DIAGNOSTICS, MAINTENANCE & IR COMMUNICATION

LEVEL 2 (USER) – ALL LEVEL 1 PRIVILEGES PLUS VIEW CONFIGURATION, SET SYSTEM TIME, CONFIGURATION CHECK

LEVEL 3 (ADMINISTRATOR) – ALL LEVEL 1 AND 2 PRIVILEGES PLUS CHANGE CONFIGURATION

LEVEL 4 (FACTORY) – FACTORY INITIALIZE SYSTEM & PASSWORD OVERRIDE

Product Update

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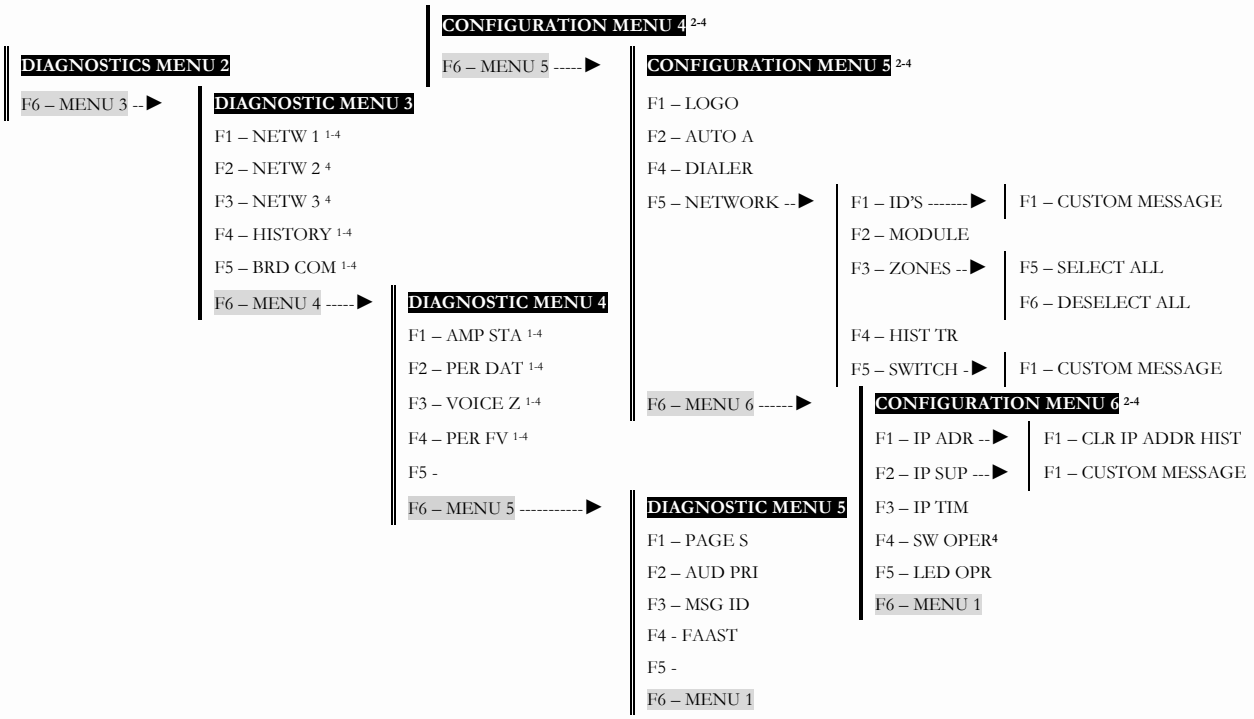

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C-Linx changes between V6.1.1.0 and V6.2.0.0:

1. **Crash Fix –** Previous V6.1.0.0 and V6.1.1.0 would crash if the configuration held a FAAST Detector and
   a) Adding an Addressable device assignment to a Graphic 256, 40 LED card, Relay controller.
   b) Accessing a Network Device Browser screen

   This issue is resolved and the software now properly allows full configuration.

2. **14 Button Remote Display 'Step Trouble' button -** Added a 'Step Trouble' programmable key in the 14 Button Remote Display programmable buttons. Absence of this button in prior versions caused other functions to map incorrectly as well. Proper programming between both C-Linx and Remote Display are resolved.

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