



## Cordex Controller Software v2.24

Alpha Technologies is pleased to announce the release of our newest software version for the Cordex Controller (CXC), Version 2.24. This software, with the EZIP extension, will run on all CXC Cordex controllers which include the CXC, CXCI, CXCM, CXCM1, CXCM2, CXCM3, CXCM4, CXCR, CXCP and CXCHV controllers.

This software release does not include features to support AIM inverter modules (e.g. AMPS power systems). Note: AMPS24 controllers running version 3.x or higher cannot be downgraded to version 2.x.

This software release does **NOT** support LPS. LPS is supported on the CXCU, CXCI+ and CXCM1+ controllers only.

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## New Features and Improvements for V2.24

### Enhancements

- Added support for new ALPHA CAN devices
- Removed a conflict between Inverters and LPS' in the SNMP interface. This enhancement requires the use of the latest MIB (034-096-02\_E\_Alpha\_System\_Controller.zip) which can be downloaded from our website.

- Added a message to properly interpret an error code indicating Fan Speed Alarm from a rectifier.
- Enhanced diagnostics features to aid in trouble shooting

### **Bug Fixes**

- Corrected a problem where editing and saving the dynamic text could cause an improper controller shutdown
- Corrected the missing LCD label on the Battery Properties screen
- Correct a rarely occurring problem where the controller might restart if it gets too many events over a short period of time
- Correct Multilanguage translations.
- Corrected a problem where a “Comms Lost” error could be reported in systems with a Pathfinder Rectifier.
- Corrected a problem where too many events occurring close together could cause the system to perform an improper controller shutdown.
- Corrected a problem where the full rectifier serial number was not being displayed.

### **Browser Compatibility**

This software has been tested with the following browsers:

- Internet Explorer versions: 7, 8, & 9 (needs to run in compatibility mode to display properly)
- Firefox versions: 12(using Internet Explorer “IE” Tab 2 to display properly)
- Chrome versions: 19(using IE Tab Multi “Enhance” to display properly)
- Safari: incompatible

### **Upgrade Procedures Using the Web Browser**

1. Connect your computer and Cordex Controller by way of the Internet, Intranet, or Ethernet direct connection (cross-over cable)
2. Log into CXC web interface, and from the Main Menu select the **Controller** menu
3. First, perform a “soft reset” on the Controller by choosing “Reset” and following the prompts
4. When the reset cycle is finished (which may take up to 30 minutes if a defrag is needed), reconnect to the Controller and return to the **Controller** menu
5. Select **Upgrade Software**
6. Click **Browse** and find the .ezip(CXC) or .elfz(CXC+) file containing the new software
7. Press **Submit**
8. The software is loaded and then the controller is rebooted. Close your browser window when prompted

**You have now successfully upgraded the Cordex controller. Thank you for choosing Alpha Technologies.**

## Limitations and Known Issues

### LCD Interface

- On the LCD interface under “Factory Information” the “Hardware Rev” is blank.

### Web UI Display

- If datalog updates are occurring quickly (< 3 seconds apart) and the FIFO File Save option is enabled it is possible that when the datalog is displayed or printed the newest values may be displayed at the bottom of the log rather than the top breaking the FIFO File Save Option.
- After changing the dynamic text for a system the browser cache must be purged.
- If the system is unable to enter Boost Mode it will display a message “The mapped alarm for Boost Inhibit is configured incorrectly. This alarm must be FALSE before boost is permitted”. Please check that the Boost Mode Alarm is enabled, a Custom Alarm is defined and the system is not already in Boost Mode.
- The statistics log only saves historical data for Custom Signals 1 through 10.
- If the divisor for an equation evaluates to 0, the equation will return the value of the numerator. (e.g.  $10/0 = 10$ )
- During a rectifier firmware upgrade the Rectifier Current may not be read correctly.
- When importing a configuration file using Internet Explorer version 9 and you decide to discard the changes, you may get a message box saying “To display the webpage again, the web browser needs to resend the information you’ve previously submitted”. In the dialog you will see a retry or cancel option. Choosing the cancel option will proceed with the discard, while choosing the retry will re-import the configuration thus not discarding any configuration settings.
- When the supervisor selects a language other than English, some phrases will not be translated and the column alignment on some pages will not be correct.

### System Limitations

- If the IP address of the controller is changed it may take a while for this change to propagate across the network. During this time it is possible that the controller may respond to both the new and the old IP addresses.
- Downgrading to CXC 2.x from CXC 3.x is not recommended. Doing this will clear the event log.
- LVD Inhibit cannot be mapped to Relay 1
- The configuration file is an XML style repository of information defined for the system. If the user saves a configuration file with some fields empty (for example the user inventory) then enters data in those fields, then reloads the first configuration file, the fields will not be emptied.
- If the controller is connected directly to a PC or a laptop and there are SNMP destinations defined in the configuration file that are not accessible on the local subnet the system may become unresponsive.
- LVDs should not be connected to a normally open contact. When a CXC controller loses power or does a soft reset the relay may be temporarily de-energized which could result in the LVD contact opening.

- Please note that in CXC v2.10 and above, a checksum has been added to the upgrade file to ensure that a CXC upgrade file is valid before the update is applied to the CXC. CXC upgrade files below v2.10 do not have this checksum and the files will be considered invalid if you try to load them with the exception of CXC v2.07. If you would like to revert to a version before CXC v 2.10, you must first downgrade to v2.07 before going to other, earlier releases.
- WARNING: As part of CXC v2.14, we have allocated space for larger configuration files. As a result, it is possible that a configuration file generated by CXC 2.14 and above may be too large to be loaded in previous versions of the CXC controller software. If it is necessary to downgrade the CXC software the user must save partial configurations so as to stay under the size limit of approximately 100K bytes. Failure to observe this warning may result in controller hanging or constant reset behavior. Recovery requires special tools and specific knowledge and the controller may need to be returned to Alpha Technologies.
- After doing a software upgrade the controller will sometimes report an improper controller shutdown alarm. This can be ignored. It has no effect on the operation of the system.
- Resetting a CXC can take up to 30 minutes. A reset will cause the CXC to save persistent files and may trigger a defragmentation cycle, which can take up to 30 minutes
- IP address changes on the LCD require a soft reset before they take effect

## Data Entry

- When configuring signals changing the “Signal Precision” only takes effect when a signal has been selected.
- When the user starts defining a Timer the “Initialize Timer” button is greyed out. In order to use this button and set the Timer to its initial value the user must submit his changes. After that he may “initialize” the timer at any time.
- When configuring Rectifiers the system does not check that the values for “Module Start Delay” < 250 and “System Start Delay” < 600.
- The value for Time Hysteresis has no limit checking.
- When editing Signals>Configure Data Logging there is a problem with reverting your changes. The work around is to either logout and back in or change some irrelevant value before submitting your changes.
- The Compare settings screen is not resizable. Before submitting changes confirm that any long strings are correct.
- Field calibration of a BCM is complex and Alpha technical support should be contacted to obtain the appropriate MOP.
- If the user Cancels the equation editor popup before it has finished drawing it may cause the browser to freeze.
- On the Configure Data Logging page the log limit is statically calculated. If the supervisor changes the number of signals being logged they must navigate off the page and back on in order to refresh the limit.
- If a “Custom Unit” is defined, then used by a “Custom Signal”, then the “Custom Unit” is removed the unit for the Custom Signal will be blank and cannot be changed.

- When defining an INFORM SNMP destination you must enter the IP address of the destination, not the host name.
- If the controller is reset immediately after changing languages, the first language may be used by the system. To avoid this issue, log off and immediately log in.
- When defining the Midpoint Monitor Activation Value the value entered describes the complete range. For example: If the activation value is 1.00, then the actual range that the controller operates with is from -0.50V to +0.50V.
- If the Battery Voltage Signal (usually V2) is mapped to NULL rather than V2 the previous battery value is displayed and no alarm is generated.
- If the user selects ""Show All"" on the configure alarms page, then navigates away from and back to the page it will show an empty selection in the drop down box.
- When loading a configuration file that defines new Event Notification destinations if the user incorrectly clears the "Deleted Destination" box for Event Notification destinations the system could end up with more than 10 destinations defined. This will degrade the performance of the system.
- On the statistics log page, only the first ten custom signals can be selected. This restriction reduces the amount of memory needed for the log file.