

# **Drism2**

# Graphical Interface Technical Guide

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This manual is also available for download from our website—www.aaon.com/Prism—where you can always find the latest Prism 2 literature updates.

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## Features and System Requirements



Prism 2 is a complete Windows<sup>®</sup>-based graphical interface that allows you to interact with most AAON digital controls. The program provides standard, easy-to-understand status, setpoint, and configuration screens for each type of controller and has provisions for custom screens which allow for floor plans, equipment photos, or user-defined summary screens.

Prism 2 allows you to access and control schedules, trend logs, and alarm conditions. The program can be configured for direct on-site installation or TCP/IP Internet connection.

The Prism 2 program is a completely redesigned release of the original Prism Graphical Computer Interface. This program should be used on all new installations containing standard AAON Controls product families.

**NOTE:** This manual is written for a person with a working knowledge of Windows<sup>®</sup> 10 and does not describe in detail the process of copying files or other Windows<sup>®</sup> related functions. Learning the operation of Windows<sup>®</sup> is the responsibility of the operator using this equipment.

#### **Feature Summary**

Prism 2 provides a broad set of features:

- Easy to use
- On-site or TCP/IP communications
- User programmable description for every piece of equipment and user-defined custom screens
- Automatic retrieval of trend logs and export capability to spreadsheet and database programs
- Alarm Logs maintained on disk
- Alarm E-mail /texting capability when using a CommLink
- Encrypted History Logs

## System Requirements

To use Prism 2 you must have a computer that meets or exceeds the following requirements:

#### **Operating System**

 Microsoft<sup>®</sup> Windows<sup>®</sup> 10
 NOTE: Prism 2 is not intended for a client/server environment nor for any version of Windows<sup>®</sup> Server.

#### Minimum Hardware

- Windows<sup>®</sup> compatible computer
- CommLink 5 or USB Link 2 for direct, on-site connection
- IP Module for remote connection
- Prism is NOT supported in a server environment. It does not support client/server systems. Prism is a LAPTOP/DESKTOP ONLY system.

WARNING: Older operating systems, while they still might be capable of running Prism, are not recommended due to security updates being obsoleted by Microsoft<sup>®</sup>. We also do not support troubleshooting of any version of Windows<sup>®</sup> operating the Prism program. Some new models of laptops running the latest release of Windows<sup>®</sup> 10 have also experienced issues running Prism, and we cannot troubleshoot customer computer issues.

**NOTE:** Your Windows<sup>®</sup> text size should be set for "Resolution - 100% (default)" found in Settings/System/Display (Windows 10) or *right-click* on Desktop and *click* Display Settings. Having the Scale setting higher than 100% may cause Prism's graphics to display improperly. See the section, "Setting Your Screen Resolution" on **page 4**.

#### **Software License**

Prism 2 does not require any license agreement and may be freely copied and distributed.

## **Support Information**

AAON Controls provides Prism 2 installation and configuration support. Call (866) 918-1100 for free, direct telephone support or (816) 505-1100 to talk to a Controls Support Representative. Support for all telephone services is available Monday through Friday, 7:00 AM to 5:00 PM central standard time.

**NOTE:** AAON Controls Support cannot troubleshoot internal PC and/or Windows®-based operating system problems.

**NOTE:** AAON Controls Support cannot troubleshoot firewalls, routers, and/or problems on a customer's internal or external network. An IT professional may need to be consulted.

## OVERVIEW

## **Step By Step Guide**

## **Setting Your Screen Resolution**

In order for Prism 2 to display properly on your computer screen, your screen resolution must be set to the default which is small font. If it appears that your graphics are not aligning properly, verify your system's font size as follows (directions are for Windows 10):

*Click* on **<Start>**, **<Settings>**, **<System>**, **<Display>** or *right-click* on Desktop and select **<Display Settings>**. Under Scale and layout, from the drop down menu, select 100%.

Some apps won't respond to scaling changes until you sign out. Sign out now Change the size of text, apps, and other items	Scale and layout	
Change the size of text, apps, and other items	Some apps won't respond to scal Sign out now	ling changes until you sign out.
	Change the size of text, apps, and	d other items

You will need to exit the System window for the changes to take effect.

## **Terms and Conventions**

Commands are italicized. For example, the instructions will tell you to *press* keys that are found on the keyboard, *click* or *select* buttons and keys that are found on the screens, and *enter* or *type* text.

User input is boldface and enclosed in quotation marks. For example, you would type the numbers 9288 when the directions tell you to *type* "**9288**."

All keys, buttons, and menu items that perform a function and are found on screens or the keyboard are boldface and enclosed with brackets. For example: *press* the **<ENTER>** key; *click* **<Edit Passcodes>**.

Main menus and field names are capitalized and in boldface. For example, "*Type* a number in the **Number** field." "You can access that information from the **Communications Menu**."

Screen and window names will always be capitalized and italicized. For example, "The *Search for Units Dialog Box* will appear."

**NOTE:** You *MUST press* the **<ENTER>** key after data entry in order for the Prism program to accept and save your entry.

## **Step By Step Guide Map**

In order to operate Prism 2 effectively, you should read this entire guide. This guide will lead you through each step in configuring Prism 2—from entering passcodes to searching and selecting units for troubleshooting. Below is a quick overview of each step.

**Step 1: Installing Prism 2**—This section explains how to install the Prism 2 software, initiate communications, and navigate the program.

**Step 2: Logging In**—This section explains how to enter and edit user names and passcodes.

**Step 3: Setting Up Job Sites**—This section provides instructions for setting up each job site's name, port, IP address, CommLink type and configuration, alarm notification, and custom screen designation.

**Step 4: Configuring Prism 2**—This section describes how to have Prism 2 automatically restart after a power failure and broadcast time to all controllers. It also explains how to set up the main screen display picture.

**Step 5: Setting Up Communications**—This section explains how to establish communications via TCP/IP connection through your CommLink.

**Step 6: Searching for Installed Units**—This section explains how to perform a unit search per job-site.

**Step 7: Selecting and Renaming Loops and Units**—This section explains how to select and rename loops and units.

**Step 8: Configuring Units**—This section describes how to configure controller setpoints, schedules, and overrides. It also explains how to configure units while off-line.

**Step 9: Configuring Unit Alarms**—This section explains how to individualize alarm settings for each controller.

**Step 10: Polling For Alarms**—This section explains how to view, acknowledge, print, and delete alarms.

**Step 11: Logging and Printing**—This section explains how to load, view, and print trend logs from individual controllers.

**Step 12: Tenant Override Logging**—This section explains how to poll controllers for tenant override logging.

**Step 13: Creating Custom Screens**—This section explains how to create Custom Screens containing text, images, and live data.

**Appendices**—The appendices include examples of status and setpoint screens, instructions for DEMOMODE, instructions for setting up alarm polling for the System Manager Touch Screen, and a list of controllers, E-BUS modules, and other devices that can be updated using Prism.

## **Installing Prism 2**

## Step 1: Install Prism 2 Software

#### **Install from the Flash Drive**

**Step 1:** *Close out* all other programs and applications.

**Step 2:** *Insert* your Prism 2 flash drive into your PC's USB port. Locate the Prism XX .exe file and double-click on it."

**Step 3:** The *Extract Window* shown below will open. Make sure C:\PrismII is your destination and select **<Unzip>**.

🔥 Extract Compressed (Zipped) Folders	
Select a Destination and Extract Files	
Files will be extracted to this folder:	
C:\	

**Step 4:** The files will be extracted to a folder on your C drive called PrismII. **Note:** If you already have a PrismII folder at this location, the program will ask you if you wish to overwrite the files. *Select* "Yes to All."

**Step 5:** Once the files are done extracting, close your Unzip Window and open the PrismII folder on your C drive.

**Step 6:** *Click* on PrismII.exe to open the Prism 2 program. **Note:** To send the program shortcut to your desktop, *right-click* on the PrismII.exe file and *select* "Send to Desktop."



This is how the Prism 2 icon should appear on your desktop. The background color is determined by your local computer's desktop settings.

#### **Download from One of Our Websites and Install**

**Step 1:** *Close out* all other programs and applications.

**Step 2:** *Open* your browser and access our website—www.aaon. com/prism. *Click* on the "Prism 2 Software" thumbnail to the right to download the latest software version.

**Step 3:** Locate the Prism2\_X.X.exe file you just downloaded on your computer and double-click on it. A security warning may appear depending on your security settings. This occurs with any file you download and try to open that is not a Windows® verified product. If you see this message, please *select* the "Run" button to open the Prism2\_X.X.exe file. This will allow WinZip self extractor to open and allow you to extract the Prism 2 program.

After the "Run" button is clicked, the Winzip self extraction window will appear. *Select* the "Unzip" button to extract the file to your computer. **The default location is C:\PrismII. Do Not change this location!** 

**Step 4:** Locate the C:\PrismII folder on your computer. Open the PrismII folder and *double-click* on the PrismII.exe file. The program will open and run. **Note:** To send the program shortcut to your desktop, *right-click* on the PrismII application file and *select* "Send to Desktop."



This is how the Prism 2 icon should appear on your desktop. The background color is determined by your local computer's desktop settings

#### Verifying Successful Installation

Once the program opens, *click* the "Help" tab on at the top of the *Prism 2 Main Screen* and *click* **<About>**. The window below will appear, displaying the version you just installed. Notice also that the type of operating system appears at the top of the window - 32 bit or 64 bit. You will need to know this when installing the USB drivers for the CommLink, USB-Link, or any other AAON device you connect to your computer.



If the window shows a different version than what you intended to install, try re-installing the software. If you need help installing the software, please call (866) 918-1100 for free, direct telephone support or (816) 505-1100 to talk to a Support Representative, Monday through Friday, 7:00 AM to 5:00 PM central standard time.

#### **Clear All Prism Settings in the Windows Registry**

If windows aren't appearing in Prism as they should, first close out ALL windows except the Main Screen, then *click* on the AAON logo in the *About Window* above to set things back to normal. *Click* **<Yes>** at the prompt in the dialog box below which asks, "Are you sure you want to clear ALL Prism Settings from the Windows Registry?" **NOTE**: This only works for Level 4, 5, and 9 users. Setpoints and configurations ARE NOT affected by this procedure.

re you sure you want to clear	ALL Prism Settings	from the Windo	ws Registry?

#### **Communications & Prism 2 Main Screen**

#### Communications



Several of the operations available with Prism 2 require that communications be active. At the top of the *Prism 2 Main Screen* is a button that displays **<Off Line>** when communications are not active. To activate or de-activate communications, simply *click* on this button. When communications are active, the button will turn green and display **<On Line>**.

If there is a problem establishing communications, the button will not turn green, letting you know that a problem has occurred that needs to be corrected.

## Prism 2 Main Screen

When you first open Prism 2, the *Prism 2 Main Screen* appears. (Figure 1)



Figure 1: Prism 2 Main Screen

The *Main Menu* contains the menus: File, Communications, Maintenance, Setup, and Help.

The *Top Toolbar* displays the **Refresh**, **Login**, **Job-Site**, **List**, **Custom**, and **Logging** buttons, **Selected Loop Name**, **Selected Unit**, **Unit ID #**, and the **Alarm** button.

The *Lower Toolbar* displays the **On-Line/Off-Line** button, **Connection**, and **Socket**.

The *Bottom Status Bar* displays the **Program Status**, **Access Level**, and **Current Date**.

Located on the left side of the screen are the *Site, Node, Loop* and *Unit Selection Windows*.

## **STEP 1: PRISM 2 INSTALLATION**

#### Prism 2 Main Screen

#### **Top Toolbar**



The Top Toolbar's items are described below:

- Refresh Button Manually refreshes the screen. You may want to do this whenever you make a unit configuration change.
- Login Button Opens the *Enter Passcode Dialog Box*, allowing each user to enter their user name and passcode and gain access to the system.
- Job-Site Selection and Setup Button Opens the *Job Sites Window* where you enter job sites, nodes per location, serial port or comm port #, IP address if applicable, and main screen display picture. You can enter 500 job sites, 500 nodes per job-site, 60 loops per node, and 60 units per loop.
- List Button Opens the List Window where you can easily change names of loops and their units.
- **Custom Button** Opens the *Custom Screen Graphics Program* for you to create custom screens for your controllers. Can only be accessed with a level 3 passcode.
- Logging Button Opens the Trend Logs Window where you can view, print, and graph system data.
- Selected Loop Indicates the Loop selected in the Loop Selection Window. You can also rename the loop here.
- Selected Unit Indicates the Unit selected in the Unit Selection Window. You can also rename the unit here.
- Unit ID# Indicates the numerical identifier for the selected unit.
- Alarm Button Indicates an alarm(s) condition when bright red and displays <ALARM>. Will display <No Alarms> when none are present.

#### **Lower Toolbar**



The Lower Toolbar's items are described below:

- Off Line/On Line Button Displays whether or not the system has established communications.
- **Connection** Displays the IP address of the current job site. This applies to TCP/IP connections.
- Socket Used for factory level support diagnostics.
- **Background Tasks** When bars are full, this indicates background communications are busy and may interfere with program functionality.

#### **Bottom Status Bar**

Ready	Administrator Access	07/25/2019
		<u> </u>

The Bottom Status Bar's items are described below:

- Program Status Message Indicates Ready or Not Ready for the CommPort connection. Will also communicate the status of specific program tasks.
- Access Level This button displays the access level—View Status Only (Level 0), Level 1, 2, 3, 4, Factory Access (Level 5), or Administrator Access (Level 9). If you click on this button while logged on, it will log you off and display View Status Only.
- **Current Date** Displays the current date.

## **STEP 2: LOGGING IN**

## **Entering Your User Name & Passcode**

## Step 2: Entering User Name & Passcode

**NOTE:** There are seven passcode levels. Level 0, Level 1, Level 2, Level 3, Level 4, Level 5—Factory Level Access, and Level 9—Administrator Access. User names and passcodes can only be set up and changed by the Administrator.

When you open Prism 2, the message **View Status Only** is displayed on the right corner of the *Bottom Status Bar*.

View Status Only

07/25/2019



*Click* the **<Login>** button found on the top left of the *Prism 2 Main Screen*. The *Login Window* will appear.

**NOTE:** Aside from when clicking the **<Login>** button, the *Login Window* will automatically appear whenever Prism 2 needs a higher access level to perform a function.

FP	Please Login to	Access This A	pplication
	User Name	1	
11	Passcode		
	11	Canad	Lavia

**System Administrators**—Type in the Administrator User Name and Passcode and *press* **<Enter>** or *click* **<Login>**. By default, the User Name is admin and the Passcode is admin. The status message **Administrator Access** will now be displayed.

Administrator Access 07/25/2019

#### WARNING: YOU SHOULD IMMEDIATELY CHANGE THE ADMINISTRATOR USER NAME AND PASSCODE IN ORDER TO SECURE THE SYSTEM! SEE PAGE 9 FOR INSTRUCTIONS.

**All Other Users**—Once you have been given clearance, type in your User Name and Passcode. Then *click* **<Login>**. The *Login Window* will automatically close, and the passcode will be tested against all previously defined passcodes to determine the passcode's access level.

The status message **Level 1, Level 2, Level 3**, or **Level 4** will now be displayed.

Level 3 Access 07/25/2019

You can log off the system by *clicking* on the access level indicator whenever you wish to secure the system.

#### **Passcode Clearance Levels**

Below is a list of the passcode levels and the default actions that can be performed at the various levels.

**NOTE:** To increase or decrease the default passcode levels for changing Space Temperature Setpoints and/or Schedules, see Setup/ Configuring Prism 2 on page 16.

## Level 0—No Passcode Needed, View Status Only, Logged Off

Level 0 users can view alarms, temperatures, and other status but no changes can be made.

#### Level 1

Level 1 users can view alarms and view and change space temperature setpoints.

#### Level 2

Level 2 users can view alarms, change space temperature setpoints and operating schedules, but not configuration settings.

#### Level 3

Level 3 users can change additional setpoints and settings and can setup the IP configuration.

#### Level 4

Level 4 users have system manager access and can change all setpoints and configurations, **but not** user names and passcodes. Level 4 users can also access force modes. This Level is normally reserved for qualified HVAC service personnel.

#### Level 5—Factory Level Access

Factory Level Access allows additional troubleshooting tools, configurations, and diagnostics. These items can only be accessed under the direction of AAON Controls Support.

#### Level 9—Administrator Access

The default User Name is "admin" and the Password is "admin". Administrator Access is the only level that can Edit User Names and Passcodes. The defaults should be changed and recorded by the Administrator. If the Administrator forgets their login information, the currently programmed Level 1 to Level 4 users will still be able to access the system if they have been given clearance. If not, Prism 2 will be locked out to all users except for View Only Level. The Administrator will then need to call AAON Controls Support for instructions on how to restore operation.

**NOTE:** Prism 2 is limited to one level 9 user. The name and password can only be changed in the first user slot that defaults to admin.

## **Changing User Names & Passcodes**

#### **Changing User Names & Passcodes**

WARNING: MAKE SURE YOU CHANGE THE ADMINISTRATOR USER NAME AND PASSCODE IMMEDIATELY IN ORDER TO SECURE THE SYSTEM!

**NOTE:** Only the Administrator can edit User Names and Passwords. You MUST *press* **<ENTER>** in each field to have the system accept the information.

From the *Prism 2 Main Screen's* File Menu, *click* <Edit Passcodes>. The *Edit User Passcodes Window* will appear. See below for an example of setting up information for a Level 3 User.

Edit User	Passcode			>		
[ Maxin Name t	mum o Search	f 30 Alphanumeric Ch	aracter	rs ]		
			Contin	ue Search		
•		•	User #	1		
First Name	John					
Last Name	Smith					
User Name	JohnS					
Passcode	****			Show Code		
Code Level	3	Level 1 Can Change Spac	e Tempe	erature Setpoints & Daylight Savings		
		Level 2 Can Change Sche	edules ar	nd Basic Settings and View Alarms		
		Level 3 Can Change Adva	inced Se	ttings and allows IP Setup		
		Level 4 Can Change All S	ettings a	nd Configurations		
		Level 5 is used for Diagn	ostics an	nd Requires Factory Assistance		
		Level 9 is used for the Ad	Iministra	tor who can create Users and Setup:		

**Step 1:** Identify the User Number by using the scroll bar. Or, if you already have the Users setup and are editing, you can type their name in the Search Field. If changing your Administrator User Name or Passcode, it will appear in the window ahead of User #1. *Click* the right arrow in the scroll bar and the user number will change sequentially. In the example above, you are setting up the information for User #1.

•	► User # 1

You can enter 100 different users. This may increase in future versions.

**Step 2:** *Type* the first name of the User in the First Name field and *press* **<ENTER>**. In this example, the name is John. You can enter up to 30 alphanumeric characters. The First Name is used by the History Log to identify who logged into the system and any setpoint changes they may have made.

**Step 3:** *Type* the last name of the User in the Last Name field and *press* **<ENTER>**. In this example, the name is Smith. You can enter up to 30 alphanumeric characters. The Last Name is used by the History Log to identify who logged into the system and any setpoint changes they may have made.

**Step 4:** *Type* the user name of the User in the User Name field and *press* **<ENTER>**. The User Name could be a nickname or a shortened version of the person's name. You can enter up to 30 alphanumeric characters. In this example, the User Name is JohnS.

**Step 5:** *Type* a password in the Passcode field and *press* **<ENTER>**. *Click* the Show Code check box if you wish to see the characters while you are typing. You can enter up to 30 alphanumeric characters.

**NOTE:** A strong password is defined as at least 14 characters long and containing characters from at least 3 of the following 4 classes: upper case letters, lower case letters, numbers, and special characters, except for an apostrophe '.

**Step 6:** *Ty*pe the passcode level of the User in the Code Level field. Valid entries are 1, 2, 3, & 4. *Press* **<ENTER>**. Refer to definitions of Passcode Clearance Levels on **page 8** for further details.

**NOTE:** Only the Administrator can be set for Level 9. The maximum level for a normal user is 4, but that level should only be reserved for maintenance personnel and not used by anyone else.

**Step 7:** When you are finished editing, *click* **<Exit>** to close the window.

#### **Job-Site Set-Up**

## Step 3: Setting Up Job Sites

The second step in the Prism 2 Setup procedure is to program the specific job-site access settings and desired initial displays for each location.



*Click* on the **<Job-Site>** button located on the *Top Toolbar* of the *Prism 2 Main Screen*. The *Job Sites Window* will appear. (Figure 2)

📐 Job Sites				×
Exit Log Times Log Units				
Job-Site Selection	Selected Location	ı	Job-Site List #	Alarm Notification E-Mail Addresses
001 - Job-Site #1		Job-Site #1	1 Delete Job-Site	
002 -	Serial Port (Not)	Required for TCP/IP Operations )	( Not all Computers Allow This )	
004 -	No Port Selected	(100 m 100 m	Auto Detect Installed Ports	
005 -	No Port Selected			
006 -	Alarm Polling E	nabled		v
007 -				
008 -				SMTP Server Information for Alarm E-Mailing
010 -				Server Name
011 -				Authentication
012 -				User Name Use TLS
013 -				
014 -				User Password O Auto-Detect
015 -			Type of CommLink	O CRAM-MD5
017 -			Comml ink 2 or Comml ink 3	Return Address       Auth-Login
018 -	Node IP Address	Node Name		OPlain
019 -	10 0 0 152	Main Site		SMTP Port
020 -			CommLink 5 or USB Link II	25 Send Test Message
021 -	001 - 10.0.0.69	Main Site		
022 -	002 - 0.0.0.0		Network Configuration	Custom Resear Display Disture Select File
023 -	003 - 0.0.0.0		Multiple Loop Configuration	Custom Screen Display Picture
025 -	005 - 0 0 0 0		O Multiple Loop Conliguration	
026 -	006 - 0.0.0.0		Single Loop Configuration	Hot Spots from Main Screen Picture Clear
027 -	007 - 0.0.0.0		O Augustiness Operand into	
028 -	008 - 0.0.0.0		O Auxiliary CommLink	X1 0 Y1 0 X2 0 Y2 0
029 -	009 - 0.0.0.0			Export/Import to Salastad Job Site
030 -	010 - 0.0.0.0		USB Link Network	Export/import to Selected Job-Site
032 -	012 - 0.0.0.0		USB Link Stand Alone	import Drive Location Export Drive Location
033 -	013 - 0.0.0.0			□ C: [Windows] ∨ □ C: [Windows] ∨
034 -	014 - 0.0.0.0		O Direct LICE Connection	Import Export
035 -	015 - 0.0.0.0	*	Direct USB Connection	

Figure 2: Job Sites Window

**NOTE:** You must configure each of the fields in this window for every one of your job sites.

#### **Job-Site Name:**

When you first open the *Job Sites Window*, the *Job-Site Selection Window* will be empty. *Click* on an empty location. The **Job-Site List #** will display the number you have selected. In the **Selected Location** field, *type* a name for your job-site and *press* **<ENTER>**.

Selected Location	Job-Site List	#
Emerald City	1	Delete Job-Site

#### **Serial Port:**



**Serial or USB**—If Prism 2 will be connecting directly to a CommLink or USB-Link through the Serial or USB Port, *select* the port that you have connected your CommLink or USB-Link to and enter 0.0.0.0 for the **Node IP Address**. COM Port #9 is the maximum port number supported by Prism, so if your USB port is #10 or higher, you will need to manually force the port to a lower port number using the Device Manager found in your Windows<sup>®</sup> Control Panel. This procedure is documented in the *CommLink IV and CommLink 5 Technical Guides*.

#### **Job-Site Setup**

#### **Auto Detect Installed Ports**

(Not all Computers Allow This) Auto-Detect Installed Ports

To the right of the Serial Port field is the button **<Auto-Detect Installed Ports>**. If you are not sure which port your USB cable is plugged into, some computers have the capability of automatically sensing this.

#### **Alarm Polling Enabled**

#### 🔽 Alarm Polling Enabled

If you require a time and date stamped log for alarming or you require e-mail notification of alarms, *check* this box to enable Prism 2 to poll for alarms. Checking this option will cause the Alarm button to light up on the *Prism 2 Main Screen*. Prism 2 must be left running on a computer 24 hours a day, 7 days a week for this function to operate correctly.

#### **Node IP Address and Node Name**

Node IP Address	Node Name
10.0.0.23	Main Site

**NOTE:** Only CommLink IV w/IP or CommLink 5 w/IP devices can be configured and used as multiple Node devices. Serial versions and older versions of the CommLink are not supported.

If you are not using an Internet connection, *enter* 0.0.0.0 in this field and *press* **<ENTER>**. If using TCP/IP, *enter* the IP address of your CommLink IV w/IP or CommLink 5 w/IP device and *press* **<ENTER>**.

**NOTE:** If using a crossover cable to connect your CommLink IV w/IP or CommLink 5 w/IP to your computer, you will need to access your Network Settings in your Windows<sup>®</sup> Control Panel, change from DHCP to a Static IP Address, and enter the IP Address and Mask provided by your IT personnel.

The Node IP Address identifies the TCP/IP address of the Comm-Link IV w/IP or CommLink 5 w/IP that you will be accessing for the selected job-site. If your job-site has multiple buildings with multiple CommLink IV w/IP or CommLink 5 w/IP devices, each device address can be programmed here.

Simply select the location from the list box to program and type in the IP address in the xxx.xxx.xxx format. You can also enter a name for each Node or CommLink IV w/IP or CommLink 5 w/IP to aid in identifying which building you are communicating with. This allows multiple CommLinks to appear as one job-site, and Prism 2 will then be able to monitor all nodes for alarming or trend information instead of a single node. You can enter up to 500 nodes per job-site.

**NOTE:** Please avoid skipping Node addresses in the list box and keep all your CommLinks consecutively listed. 001 is always the Main Job-Site. The 001 Node Name defaults to Main Site, but you can change the name.

The figure below shows an example of Node IP Addresses and Node Names for a job-site with multiple buildings.

Node IP Address	Node Name	
10.0.0.26	Building #3	
001 - 10.0.0.23	Emerald City	~
002 - 10.0.0.24	Building #1	
003 - 10.0.0.25	Building #2	
004 - 10.0.0.26	Building #3	
005 - 0.0.0.0		
006 - 0.0.0.0		
007 - 0.0.0.0		
008 - 0.0.0.0		
009 - 0.0.0.0		
010 - 0.0.0.0		

**NOTE:** You should never have a Serial Port and a Node IP address entered at the same time. Only one method of communications is available per job-site.

#### **Network Configuration and E-mail / Text Message Alarm Notification**

#### Type of CommLink

Type of CommLink				
C CommLink 2	or	CommLink 3		
O CommLink 4	or	USB Link		
CommLink 5	or	USB Link II		

In the *Type of CommLink Selection Box, select* the type of CommLink or USB-Link that you are using. If you are setting up a node, the only type of CommLink you can use is a CommLink IV w/IP or CommLink 5 w/IP.

#### **Network Configuration**



You must select the configuration of the CommLink or USB-Link you have connected to your computer as this affects setting up the CommLink and polling for alarms.

Multiple Loop Configuration	System contains MiniLinks that divide up the units across logical boundaries or contains large quantities of similar units that exceed the number of units allowed on a Single version CommLink. CommLink must be set to Multi.
Single Loop Configuration	System contains 60 or fewer units that can exist on a single communications loop. CommLink must be set to Single.
Auxiliary CommLink	This is only applicable on older existing systems. System contains a CommLink set to Multi and MiniLinks and the user needs to add a second computer to monitor the system. The second computer cannot be used for alarm monitoring.
USB Link Network	System contains a standard CommLink. USB-Link must be set to Network.
USB Link Stand-Alone	System does not have a CommLink or you are connected to a single controller and have disconnected the communication loop from the board. Set the USB-Link to Stand Alone.
Direct USB Connection	For future use.

#### Alarm E-Mail / Text Message Notification

**NOTE:** The alarm notification/text messaging feature only applies when using a CommLink. The USB-Link does not support this feature.

If you require e-mail or text message alarm notification, you may enter up to 10 e-mail addresses in this list box. Prism 2 must be enabled for Alarm Polling and must be running continuously to monitor for new alarms and generate e-mails containing the alarm information. See how to set up text messaging in the Text Message section below.

Type an e-mail address and press <ENTER>. The e-mail address

Alarm Notification E-Mail Addresses
donw@grandhaven.com
jimjohnson@escanaba.net

will appear in the box below the entry field. *Click* on an empty line below the e-mail address you just typed and then place your cursor back in the field to type an additional e-mail address. To delete an e-mail address, *click* on it so that it appears in the entry field, *highlight* it, and *press* the **<BACKSPACE>** key or **<SPACEBAR>** and then *press* **<ENTER>**.

Whenever an alarm is detected, each individual on the list will receive e-mail or text message notification of the site location, the unit address and description, and a brief text message identifying the alarm condition.

**WARNING:** Your computer must be set up with a standard e-mail account using any of the standard e-mail programs such as Outlook Express or Mozilla Thunderbird for this option to operate correctly! Failure to set up a standard e-mail account will result in unreliable alarm notifications!

**Text Message** — Most cell phone providers have e-mail to text service as a free\* option (charges may apply in some instances). Any alarm type level that is generated would be sent to that cell phone number as a text message. \*Usually cell phone providers will have an unlimited text messaging option. Check with your cell phone provider to see if they provide e-mail to text service.

#### Alarm E-mail / Text Message Notification and Display Picture

#### **SMTP Server Information for Alarm E-Mailing**

#### Server Name:

This is the SMTP mail server provided when you set up your e-mail account. For example, smtp.[your server name].com.

#### **User Name:**

This is the e-mail address you created when you set up your e-mail account.

Server Name	
	Authentication
User Name	Use TLS
User Password	Auto-Detect
	C CRAM-MD5
Return Address	C Auth-Login
	O Plain
SMTP Port	
25	Send Test Message

#### **User Password:**

This is the password required to send and receive mail on your account.

#### **Return Address:**

This is the address that is notified when the mail is undeliverable.

#### **SMTP Port:**

Use the default port given by your IT Department or ISP.

#### In the Authentication Window:

#### Use TLS:

This should be checked unless your e-mail service does not require secure e-mail transactions.

#### Auto-Detect:

If you don't know which method your server uses, you can select this option and the MailSend program will try each method and use the one that operates on your system.

#### CRAM MD5:

This would be the default method if TLS is checked. It is not available if TLS is not checked, but the other 3 methods are. Your service provider can tell you if this is the preferred method.

#### **Auth Login:**

Your service provider will tell you if this is the required method to send authenticated e-mail.

#### Plain:

No authentication is required to send e-mail.

#### Send Test Message:

*Click* this button to send an alarm notification test message to everyone listed in the *Alarm E-Mail Notification Dialog Box*.

#### **Custom Screen Display Picture**

Once you have created your Custom Screen(s) you can revisit this field. Custom Screen instructions are found on **page 33**. Custom Screens can be floor plans or groups of controllers or whatever you decide is necessary to ease the monitoring of your system. When you revisit this field, *click* the **<Select File>** button to select the custom screen you wish to be associated with the job-site. Once you choose a Hot Spot from the *Main Screen* display (described on **page 36**), you can *click* on the Hot Spot and go straight to the custom screen.

#### **Hot Spots from Main Screen Picture**

Hot 9	5pots fr	om Ma	ain Scr	'een Pi	cture	: ]	Clear
X1	0	Y1 🛛	0	X2 🛛	0	Y2	0
Cus	tom So	reen l	Displa	y Pict	ure	S	elect File

Once you create a Hot Spot on the *Main Screen* display (described on **page 36**), the coordinates for the Hot Spot will show up in this field. If you have forgotten where you placed a Hot Spot, these coordinates will allow you to troubleshoot the location. If you want to delete a Hot Spot, *click* the **<Clear>** button.

#### **Auto-Logging**

#### **Export/Import to Selected Job-Site**

Export/Import to Select	ed Job-Site	
Import Drive Location	Export Drive Loo	cation
🖃 c: 🛛 🗸	🖃 c:	~
Import	Export	

Once you have completed setting up your job-site and have performed a search for all installed units (see **page 19**) and have given them names, you can revisit this field which enables you to copy job-site settings to another computer so you don't have to reenter the information.

To export data, *select* the job-site you wish to export by highlighting it and then *select* the Export Drive Location to store this information. You can export to any form of removable media that your computer is capable of writing to. Make sure that the media you choose is supported by the computer you will be importing this data to! *Click* the **<Export>** button to initiate this procedure. Once the data is stored, take the removable media to the other computer, insert it, and *select* the Import Drive Location for that computer and the job site list number (*click* in the *Job-Site Selection List Box* to make this selection) and then *click* the **<Import>** button. All installed units and names should now appear on the *Prism 2 Main Screen* when you exit the *Job Sites Window*.

#### **Delete Job-Site**



If you want to delete a job-site, *highlight* the job-site in the *Job-Site Selection Window* so that its name appears in the **Selected Location** field. Then *click* the **<Delete Job-Site>** button next to the **Job-Site List** # field.

A message will appear asking you if you really want to delete the job-site. This is a precaution in case you click the **<Delete Job-Site>** button by mistake. *Click* **<Yes>** or **<No>**.

#### **Auto-Logging Settings**

#### Log Times

If you would like Prism 2 to automatically retrieve controller trend logs on a regular basis, *click* **<Log Times>** from the *Job Site Window's Top Menu Bar*. The *Auto-Log Retrieve Times Window* will appear. Select the times of the day you would like Prism 2 to perform this function.

**NOTE:** You can force Prism 2 to start the Auto Logging procedure at any time by making sure your communications are **On Line** and then *selecting* **<Start AutoLog>** from Prism 2's **Communications Menu.** 

Auto-Log Retrieve	Times
E⊻it	
✓ 12:00 AM	✓ 12:00 PM
🔲 01:00 AM	01:00 PM
02:00 AM	02:00 PM
🗖 03:00 AM	🔲 03:00 PM
04:00 AM	04:00 PM
🔲 05:00 AM	05:00 PM
🔽 06:00 AM	🗹 06:00 PM
🔲 07:00 AM	🔲 07:00 PM
🔲 08:00 AM	08:00 PM
🔲 09:00 AM	09:00 PM
🗖 10:00 AM	📃 10:00 PM
🔲 11:00 AM	🔲 11:00 PM

How often you should gather logs depends on the shortest logging interval you have specified on any selected controller. Some of the older families of controllers support 60 rows of log data whereas newer families have 120 rows. Each row of log data contains a time and date stamp and any relevant data for the type of control it performs.

For example, a Variable Air Volume Box Controller logs its Space Temperature, Heating and Cooling Setpoints, Supply Air, and Damper Position in each row.

If you entered the shortest log interval of 1 minute for a unit with 60 rows of data, you would need to retrieve data every hour to prevent loss of log data. If you left the default log interval at 15 minutes, then you could load the log data twice a day and not lose any data since 15 minutes times 60 rows = 900 minutes of data (15 hours).

On a unit with 120 rows, that same 15-minute interval would yield 1800 minutes of data or 30 hours, which means you could retrieve logs once a day without losing data. Don't worry about overlapping data if your logs exceed the auto-log interval. All duplicate data is discarded and any files created for a single day are loaded as a whole to create one log listing per day. Keep in mind that a time and date stamped file is created every time you retrieve a log from a controller, so unnecessary polling should be kept to a minimum. If you retrieve logs every hour, then 24 files will be created for each day of the year.

#### Log Units

Once you have selected the Log Times, you need to select which units to retrieve log data from. If you have controllers such as Lighting Panels which don't have internal logs, you don't need to select them. Also, if you don't need archival storage of log data, you may only want to activate this feature to troubleshoot a job-site, and then disable this feature once everything is running smoothly again.

*Click* **<Log Units>** from the *Job Site Window's Top Menu Bar* and select units to be logged.

As you can see on this sample screen, only three units have been selected for auto-logging four times a day (See Log Times sample screen). All other units will be ignored during this process.

Keep in mind that on systems with multiple communications loops, you will need to select each loop one at a time from the *Loop Selection List Box* and then check each desired unit on the selected loop.

**NOTE:** If you are using multiple CommLink IV w/IP or CommLink 5 w/IP devices on a campus setting, you will need to select each Node and then each Loop along with the Units on those loops that you would like to auto-log. Prism 2 will open communications with each CommLink IV w/IP or CommLink 5 w/IP in order and retrieve the logs from each building.

**NOTE:** Auto-logging places a heavy demand on the communications pipeline. If you are viewing Status or Setpoint screens when it is time for an auto-log to occur, it would be best to close out your viewing session until the logging is complete. This helps to avoid missing packets of data or extending the logging procedure because it would be competing for communications time with a Status Screen polling for live data.

Exit Log Times Log Units
A Checkmark Indicates the Unit Will Be Auto-Polled for Trendlogs         Node Selection       Loop Selection       Oli - MinLink #2       Oli - VAV Controller       16- No Unit Exists       S1- No Unit Exists       46- No Unit Exists         001 - MinLink #2       002 - MinLink #2       002 - VAV / Zone Control       77- No Unit Exists       33- VAV/CAV       48- No Unit Exists         003 - 000 - 003 - 003 - 003 - 000 - 003 - 003 - 000 - 003 - 000 - 003 - 003 - 000 - 003 - 000 - 003 - 000 - 003 - 000 - 003 - 0000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 00

## **Configuring Prism 2**

## Step 4: Configuring Prism 2

Prism 2 can be configured to poll for trend logs or alarm conditions on a continuous basis. If your computer experiences a power outage, Prism 2 will not automatically restart without a few user settings to make this happen.

Setup	Help	
C	onfigure	
M	ain Screen Picture	
Se	creen ID #'s	

## From the Setup Menu, *click* <Configure>.

The *Prism 2 Configuration Dialog Box* will appear.

Prism II Configuration	×
Exit	
Auto Re-Start After Power Failure	
I ■ Broadcast Time to Keep Controllers Synchronized	
Login Times Out After 5 Minutes of No Mouse Moveme	nt
1 Passcode Level for Space Setpoint Access	
2 Passcode Level for Scheduling Access	

#### Auto Re-Start After Power Failure

Click the checkbox for Auto Re-Start After Power Failure.

In order for Prism 2 to automatically restart after a power failure, you must place a shortcut to PrismII.exe into the C:\Documents and Settings\All Users\Start Menu\Programs\Startup folder.

When the computer reboots and Prism 2 restarts, the communications port will open up automatically and resume any alarm or trend logging.

An Uninterruptible Power Supply (UPS) device can be attached to your computer to handle the short power glitches and prevent the computer from needing to re-start. Longer power outages will still need this auto re-start method to return to normal operation.

## Broadcast Time to Keep Controllers Synchronized

Select this option to keep all controller real time clocks synchronized and to handle daylight savings changes.

*Click* the checkbox for **Broadcast Time to Keep Controllers Synchronized**.

**NOTE:** Prism 2 must be running on a continual basis for this option to work.

This broadcast occurs once an hour and is helpful in keeping all time stamped items, such as trendlogs, synchronized with each other.

#### Login Times Out After 5 Minutes

*Click* the checkbox for **Login Times Out After 5 Minutes of No Mouse Movement** if you want the system to revert to View Only Status after 5 minutes of no activity.

## Passcode Level for Space Setpoint Access and Scheduling Access

Although passcode level access defaults are set in the *Edit Passcodes Window* (see **page 9**), you can increase or decrease the default passcode level access for Changing Space Setpoints (default Level 1) and for changing Schedules (default Level 2) to levels between 0 through 3.

In order for Prism 2 to save any changes that you make in these fields, you must *press* **<ENTER>** after entering the new value.

**NOTE:** You must have a Passcode Level of 3 or above to change these settings.

## **Configuring Prism 2**

#### **Main Screen Display Picture**

You can substitute Prism 2's *Main Screen* AAON Controls logo display with an image file (BMP, TIFF, GIF, JPEG, or PNG format) of your choice.

Setup Help	From the Setup Menu, <i>click</i> <main< th=""></main<>
Configure	Screen Picture>.
Main Screen Picture Weather Information Zip Code Screen ID #'s	The <i>Main Screen Picture Dialog Box</i> will appear.
Main Screen Picture	. 🔀



*Click* the **<Select Picture>** button to select your desired image. The *File Open Window* will pop up:



Search for the image until it appears in the **Selected Directory** field. Click the filename once so that it appears in the **Selected File** field and then click the **<Open>** button on the File Menu Bar. The file you choose should immediately appear in the Main Screen display.

#### Screen ID #s

The Screen ID #s function is helpful for troubleshooting. It can identify the screens in your system when making a call to AAON Controls Support. Select **<Screen ID #s>** from the **Setup Menu**.

Setup	Help
C	onfigure
M	lain Screen Picture
Se	creen ID #'s

The Screen ID # Dialog Box will appear.

ID#	Short Name	Long Name	
)	VCBX	VCBX Controller	
D# 000	0VCBX	VCBX Controller	
D# 000	1 No Unit Exists	Unknown Type of Unit	
000 #0	2No Unit Exists	Unknown Type of Unit	
000 #0	3SZ Zone Controller	Simple Zone Box Controller	
000 #0	4SZ Manager	Simple Zone Manager	
000 #0	5CV Package Unit	Constant Volume Package Unit Controller	
000 #0	6CV Package Unit	Constant Volume Package Unit Controller	
000 #0	7SZ CV Controller	Simple Zone Constant Volume Controller	
000 #0	8Dual Duct AHU	Dual Duct Air Handler	
000 #0	9Dual Duct Zone	Dual Duct Zone Controller	
001	O Chiller Control	Chiller Controller	
001	1 Dual Duct AHU	Dual Duct Air Handler	
001	2Dual Duct Box	Dual Duct Box Controller	
0# 001	3Dual Duct Box	Dual Duct Box for Multi Zone	
D# 001	4No Unit Exists	Unknown Type of Unit	
0# 001	5No Unit Exists	Unknown Type of Unit	4

Ready

## **STEP 5: SETTING UP COMMUNICATIONS**

#### **TCP/IP Connection and CommLink Setup**

## **Step 5: Setting Up Communications**

This section discusses the initial settings required to get Prism 2 communicating with your AAON digital controls. Your CommLink communications device must already be installed and all communications wiring must be completed before Prism 2 can communicate with your system.



Once the job-site has been configured, you should be able to initiate communications with the attached CommLink device. *Click* on the **<Off Line>** button to force Prism 2 to open a communications port or socket to the CommLink. If it is successful, the button indicator will light up and display **<On Line>**.

Each time you click this button, Prism 2 will either open communications and display **<On Line>** or close communications and display **<Off Line>**.

**NOTE:** If you are using a USB-Link or auxiliary CommLink, you can skip the rest of this section and go directly to "Searching For Installed Units" on **page 19**.

#### **TCP/IP Connection**



If you are using a CommLink IV w/IP or CommLink 5 w/IP device, you need to set up initial settings by clicking **<CommLink IP Web Settings>** from the **Communications Menu**. When you plug in your CommLink IV w/IP or CommLink 5 w/IP device, this menu item will be accessible.

The *IP Module Technical Guide* is provided with the CommLink IV w/IP or CommLink 5 w/IP device which details all required settings and configurations and will not be discussed in this manual.

The initial setup is performed with your installed web browser. This option is provided in Prism 2 to eliminate the need to run a separate program to verify settings while troubleshooting or performing other changes as specified by AAON Controls Support.

#### **Unit Search**

## Step 6: Searching For Installed Units

Once all controls are up and running and all communications have been set up and tested, you need to search for installed units on the communications loop.

Make sure Prism 2 is **On Line** and you have Level 3 access. If you are using a Remote Link, you will need to dial out to make a connection. From the *Main Menu*, click **<Communications>**, **<Search For Units>**.

Communications	Maintenance	Setup	
Search For Un	iits		
Start AutoLog	j.		
Manual Logs			
CommLink IP	Web Settings		
VAV Box Sum	mary Screen		
Terminal Mod	de		
Monitor Para	Blocks		
Monitor Raw	Input Voltages		
Diagnostics N	lode		
Flash Selected	d Controller	>	

#### The Search For Units Screen will appear.



If you are using a USB-Link, you should *select* the **Check Unit Maps** option or the search will not reliably detect installed units.

To search a single loop, *click* on any box on the desired loop, and *select* the **Search ONLY the Selected Loop** checkbox. Other loops will be ignored, but units previously found on other loops will not be discarded.

*Click* **<Start Search>**. The search process will automatically look at all 60 possible addresses on each loop unless you *click* **<Cancel Search>** to stop the process.

Each gray box symbolizes a board address from one to sixty on a maximum of 60 loops. As each unit is checked for on a loop, the gray box will turn yellow. If a unit is found, the box will turn green. If no unit exists at a specific address, the box will turn red.

If you are testing a specific address during installation or troubleshooting to see if it is recognized, find the correct box using the left mouse button. The selected loop and unit addresses will appear in the upper left corner in the **Loop Selection** and **Current Unit** fields. To actually test that unit, use the right mouse button. If the unit is found, the box will turn green; otherwise it will turn red.

Once all addresses are checked, the total number of units or controllers found for each loop will be displayed at the top of the screen.

If the number per loop matches the actual number of installed HVAC controllers, *click* **<Exit>** and save your search results.

If you think you have consecutively addressed all of your controllers but you see a green box located apart from the group, you can assume you have improperly set the address switch for that controller. However, in some cases, such as AHU Units and MiniLink Polling Devices, they will be located at the end of the loop at addresses 59 & 60 and no corrections are necessary.

If the number does not match, you will need to diagnose the communications problem and perform searches until the number of detected units matches the number of installed units.

**NOTE:** You can *select* **<Cancel Search>** at any time if you know there are no more units to be found on your system.

*Click* **<Exit>** when you are finished with your search or wish to close the *Search For Units Screen*. The following message will pop up, asking if you want to save your search results:

Search for Units	X
Do you want to save	e the search results?
Yes	No

*Click* **<Yes>** if the detected number matches the actual number of installed units and you wish to save the search results. If you *select* **<Yes>**, the new search file will overwrite any previously saved search file.

*Click* **<No>** if the numbers don't match or you are troubleshooting the system and don't want to save the results. If the numbers don't match, make sure your system is **On Line** and check other communication configurations as necessary.

No matter which search method is used, you can always choose to save or discard the search results when you exit this screen.

## **STEP 7: SELECTING & RENAMING UNITS**

## **Selecting and Renaming Loops and Units**

## Step 7: Selecting and Renaming Loops and Units

This section explains how to select and rename loops and units.

#### **Selecting Loops and Units**

Loop Selection	
001 - MiniLink #1 002 - MiniLink #2	^
003 -	
005 -	
006 - 007 -	
008 -	<b>×</b>
Unit Selection	
001 - VAV / Zone Control	^
UU2 - VAV 7 Zone Control	
004 -	
005 -	
006 -	
007 -	
008 -	
010 -	
011 -	
012 -	
014 -	

To open the status screen of a selected unit, simply *select* the correct Loop and Unit by *clicking* on the loop in the *Loop Selection Window* and *double-clicking* the unit in the *Unit Selection Window*. These window list boxes are located on the left side of the *Main Prism 2 Screen*.

Once a status screen is open, you can select other controllers with a *single-click* in the *Unit Selection Window* instead of a *double-click*.



From the *Prism 2 Main Screen*, *click* the **<List>** button located on the *Top Toolbar*. The *List of Units Screen* will appear.

Loop Selection				
01 - DEMO LOOP	▲ Unit # 1: VAV/Zone Controller	Unt #21;	Unit #41:	
02 -		_		
03 -	Unit # 2: Zone/Box Controller	Unt #22:	Unt #42:	
04 -	Unit # 1: No Unit Evista	11-2 472	[[]=2.443	
05 -	Unit # 3: No Unit Exists	junit#23:	Jone #43.	
- 06 -	Unit # 4: VCM Controller	Unit #24:	Unit #44:	
07 -				
- 80	Unit # 5: VCMX Modular	Unt #25:	Unit #45:	
09 -	and the second se	- Franker		
10 -	Unit # 6: VCBX Controller	Unt #26:	Une #46.	
11 -	Lint # 7: WCV2 Controller	Unit #27:	102 847	
12 -	John W. Vonz composer	Joint war.	Tour and	
13 -	Unit # 8: GPC-XP	Unit #28:	Unit #48:	
14 -				
15 -	Unit # 9: GPC Plus	Unit #29:	Unit #49:	
16 -				
17 -	Unit #10: GBD Controller	Unt #30:	Un# #50:	
18 -	Lites at the Will Heles	Link #34	line est:	
19 -	Took with Kar weter	Jone work	I our wort.	
20 -	Unit #12: Lighting Controller	Unit #32:	Unit #52:	
21 *	The second s			
22	Unit #13:	Unit #33;	Unit #53:	
2.3 -				
24 *	Unit #14;	Unt #34;	Unit #54:	
60 ·	Unit #15:	11+2 #15	line est	
20 -	Jour ero.	Jone #35.	Jone #00.	
20	Unit #16:	Unit #36:	Unit #56:	
20 -				
30 -	Unit #17:	Unit #37:	Unit #57:	
31 -		-		
12 -	Une #18:	Unt #38:	Unit #58:	
33.	Line atto	1162 830	1102.050	
34 -	Tome with.	Lour and	Loug soa.	
35	V [][at #20:	1167 #40:	102 #50	

Simply *highlight* a loop in the *Loop Selection Window* and all 60 possible units on that loop will appear.

*Click* inside the blank area or unit name in a **Unit** # field, *type* in a name or new name, and *press* **<ENTER>**.

If you *click* on the words "Unit #" in the **Unit** # field, that unit's status screen will appear.

#### **Restore Unit Names**

Maintenance	Setup	Help
Restore Un	it Names	
Setup Units	; Off-Line	•

If due to an extended power outage, all of your unit names are missing or scrambled in the *Unit Selection Window* on the *Main Screen*, *click* **<Restore Unit Names>** from the **Maintenance Menu** to restore the unit names back to normal.

The status of the restore will be shown on the far left of the *Prism 2 Bottom Status Bar*.

Restoring Saved Unit Name to Node #1 Controller #0133

#### **Renaming Loops and Units**

The only way to rename loops is in the *Selected Name for Loop Box* located on the *Prism 2 Top Toolbar*. Once you have *highlighted* the loop in the *Loop Selection Window*, *type* in a new name for the loop and *press* **<ENTER>**.



One way to rename units is in the Selected Name for Unit Box located on the Prism 2 Top Toolbar.



*Type* in a new name for the unit and *press* **<ENTER>**.

However, the easiest way to rename many units at once is by using the *List of Units Screen*.

#### **Configuring Zone Controllers and Unit Controllers**

## **Step 8: Configuring Units**

This section identifies the main components on most controller status screens and explains how to configure your system controllers by accessing and changing their setpoints and other controls. The complete list of status and setpoint screens will not be presented in the manual.

## **Configuring Zone Controllers**

When you select a Zone Controller, the status screen for that controller will appear. Following is an example of a Cooling Only VAV Box Controller Status Screen:



From each controller's status screen, you can access **<Setpoints>**, view and print **<Trendlogs>**, and **<Print>** a status report. These options are found at the top of the screen.

All box controllers can have their dampers forced for diagnostics or troubleshooting purposes. To force the damper, *click* on the button at the top right of the Damper display on the status screen. From the Damper display shown, you would *click* on the **<Normal>** button.



The *Damper Override Window* will pop up. To close the window, you must select one of the options. To keep the option, in this example **Normal Operation**, you would simply click again on the **Normal Operation** selection box to close the window.



#### **Zone Controller Setpoints**

To configure all setpoints, *click* **<Setpoints>**. Below is an example of a Cooling Only VAV Box Controller Setpoint Screen:

Temperatur	Temperature Setpoints			
85°	Occupied Cooling Setpoint			
82°	Occupied Heating Setpoint			
30°	Unoccupied Cooling Setpoint Setup			
-10°	Unoccupied Heating Setpoint Setback			
0°	Main AHU Heating Call Setpoint			

From each Setpoint Screen, you can select other setpoint screens, **Save Setpoints>** which will save setpoints for the specific controller in a file to the hard drive and **Restore Setpoints>** to restore previously saved setpoints. These functions are described on **page 24**.

## **Configuring Unit Controllers**

When you select a Unit Controller, the status screen for that controller will appear. The sample screen presented below is for a VCCX2 Controller.



From each controller's status screen, you can access **<Setpoints>**. This option is found at the top of the screen. You must have a Level 3 passcode to access most of the setpoints.

## **STEP 8: CONFIGURING UNITS**

## Override, Schedules, and Holiday Configuration

#### Controller Override, Schedules, and Holiday Configuration

At the top of the status screen are the icons **<Override>**, **<Schedules>**, **<Holidays>**, and **<Details Viewer>**.



The **<Override>** icon overrides the current occupied/unoccupied operating mode. The **<Schedules>** icon accesses the weekly schedule and the **<Holidays>** icon accesses the holiday schedule. The **<Details Viewer>** icon provides a wide range of detailed data.

#### **Controller Overrides**



If the controller supports it, you can override the schedule mode of operations by *clicking* on the **<Override>** icon. The *Overrides Window* will appear.

Overrides
Auto Scheduling
Force Schedule ON
Force Schedule OFF
Fan Only Mode

You can choose **Auto Scheduling**, **Force Schedule ON** or **Force Schedule OFF** or you can choose **Fan Only Mode** to force the Main Fan to operate without any cooling or heating being activated due to space temperature demands.

A scheduled force override will

remain in effect until cancelled. To cancel an override, *select* the **Auto Scheduling** option.

**NOTE:** Not all units support the **Fan Only Mode**. In these cases, it will not be displayed as an option.



#### **Controller Weekly Time Schedules**

When you *select* the **<Schedules>** icon, the *Schedules Window* will appear.

reted	Unit on Loo	p 1 Address 5	<ul> <li>VCH Controller</li> </ul>		-
	Eve Start	nt #1 / Stop	Event #2 Start / Stop	12:00 AM 06:00 AM 12:00 PM 06:00 PM 12:0	0 A1
Sun.	12:00 AM	12:00 AM	12:00 AM 12:00 AM	Enset 1 Event 2	Sur
Mon.	08:00 AM	05:00 PM	1200 AM 1200 AM	Exat! Exat2	Mor
Tue.	00:00 AM	05:00 PM	1200 AM 1200 AM	Engl 1 Engl 2	Tue
Ned.	08:00 AM	05:00 PM	12:00 AM 12:00 AM	Enat 1 Enat 2	We
Thu.	08:00 AM	05:00 PM	12:00 AM 12:00 AM	Exact Exact 2	Thu
Fri.	00:00 AM	05:00 PM	12:00 AM 12:00 AM		Fri,
Sat	12:00 AM	12:00 AM	12:00 AM 12:00 AM	Enal 2 Enal 2	Sat
Hol	12:00 AM	12:00 AM	12:00 AM 12:00 AM	Court 1	Hol

The *Schedules Window* in the example shows an 8:00 AM to 5:00 PM operating schedule for Monday through Friday. The bars on the right side of the screen give a visual indication of the selected time periods.

**NOTE:** Some controllers do not have two start/stop events per day. The *Schedules Window* will reflect this by having the Event #2 columns grayed out.

When you enter a time in any field, you must designate AM or PM and *press* **<ENTER>**.

**NOTE:** You MUST *press* **<ENTER>** to have the system accept your entry. If you do not *press* **<ENTER>**, the bar graph to the right will either not display or will not change.

The holiday start and stop times will override the standard operating hours. The holidays themselves are scheduled in the *Holiday Schedule Window* described on **page 23**.

To eliminate a schedule from any event, simply *type* a zero and *press* **<ENTER>** for the Start and Stop time for that day. The screen will display 12:00 AM for both the Start and Stop times, indicating that the equipment will not activate for that day.

If you want the controller to run the full 24 hours, *type* a zero and *press* **<ENTER>** to set 12:00 AM for the Start time and type 11:59 PM and *press* **<ENTER>** for the Stop time. This ensures the full 24-hour period will remain in the occupied mode without interruption.

*Select* **<Save>** to save your schedule. *Select* **<Restore>** to restore a previously saved schedule. *Select* **<Erase Schedules>** to completely erase the schedule appearing in the window.

**WARNING: <Erase Schedules>** will clear ALL entered stop/start times, so use with caution.

To save the weekly time schedule, click **<Save>**. The *File Save Window* will appear. Give the file a name and click **<Save>**.

🚍 File Save				
Save Cancel	X			
Look In:	<b>⊖</b> c	~	C:\	
Selected	Directory		Thistory	

The following message will pop up if the schedule is saved successfully. *Click* **<OK>** to make it disappear.



## **Scheduling Holidays and Details Viewer**

*Click* **<Restore>** to restore any previously saved schedule from a previously saved file. If you try to load a schedule from one type of controller to a different type of controller, Prism 2 will display an error message and prevent you from making this mistake.

#### **Controller Holidays Schedule**



To access the controller's Holiday scheduling, *click* the **<Holidays>** icon. The *Holiday Schedule Window* will appear:



If your job-site has days during the year when you need to override the standard operating hours to accommodate holidays or other special events, you can use this window to select the holidays. *Click* on the date to highlight it and tag it as a holiday.

Days selected as holidays are indicated with a green background and white text.

There are 14 holiday periods available for each year. These holiday periods can span a single day or they can span weeks or even months. The key to extended holiday periods is to make sure you select every single day, including weekends, between the start of the holiday and the end of the holiday.

For example, if you want to schedule a summer break, you need only schedule one holiday period to define a two or three month break from operating in the occupied mode. Of course, the equipment will still operate with its unoccupied settings.

Every defined holiday uses the same Holiday operating schedule programmed in the *Week Schedules Window*.

As in the case with Week Schedules, you can select the **<Erase>** button to clear all selected holidays at one time. Refer to Week Schedules for directions on **<Save>**, and **<Restore>**. Holidays can only be programmed for the current year. You cannot program holidays before the next year occurs. Holidays do not automatically adjust for the new year, so you will need to access this screen after the new year and make necessary adjustments to the days that float, such as Memorial Day.

#### **Details Viewer**



To access controller details, *click* the **<Details>** icon. The *Details Window* will appear. This window will display the Controller's input and output readings as well as any expansion modules attached to the controller. From this screen, you can also select **<View Refrigeration Module>** to access its details.



At the top of the window, you have a wide range of functions to choose from: Setpoints, Trendlogs, Print, Cancel Force Modes, Air Balance, Staging Times, Relay Run Times, Module Charting, Expansion Charting, and Reset Factory Defaults.

#### **Controller Setpoints**



Select **<Setpoints>** from the *Top Menu Bar* of any controller status screen. A series of Setpoint buttons will appear at the bottom of the displayed setpoint screen. Not all controllers have the same button selections along the bottom due to different control schemes. A sample setpoint screen is shown below. Other examples of setpoint screens start on **page 38** in the Appendix.

75.01	Cooling Mode Enable Setpoint	SATC	ooling		
70.0*	Heating Mode Enable Selpoint	75.0	High Reset Source	55.0*	SAT Selpoint or Low SAT Limit for Res
75.0*	Hood On MUA Cooling Selpoint	70.0	Low Reset Source	55.0*	SAT High Reset Limit
70.0*	Hood On MUA Heating Setpoint	5.0*	Cool Staging Window	50.0*	Mechanical Cooling OAT Lockout
30.0*	Unoccupied Cooling Offset	10.0*	Mod Cooling Window	40.0*	Low Temp Cutoff
30.0*	Unoccupied Heating Offset	SATH	eating		
	Coat shedding United	75.0	High Reset Source	120.0*	SAT Setpoint or Low SAT Limit for Res
30.0*	Control Mode High Alarm Offset	70.0	Low Reset Source	120.0*	SAT High Reset Limit
30.0*	Control Mode Low Alarm Offset	5.0*	Heat Staging Window	90.0*	Heating OAT Lockout
1.0*	Mode Selection Deadband	10.0*	Mod Heating Window	150.0*	High Temp Cutoff
55.0*	Economizer Enable Setpoint			0%	HW Valve Protection Position
10.0*	Economizer Proportional Window		Haring City Office Char	70.0*	Warm-Up / Cool-Down Setpoint
20.0*	Pre-Heat Selpoint	0.0-	Maximum Side Offset Effect	100.0*	Warm-Jin Sunniv Air Setnaint
30.0*	Low Ambient Setpoint	Prehea	ter	22.01	And Deve Developing the Relation
45.0*	Coll Setpoint High Reset Limit	40.0*	Cool Mode Leaving Air Setpoint	33.4	Con-Lows supply Ar sepont
40.0*	Coll Setpoint Low Reset Limit	60.0*	Heat Mode Leaving Air Setpoint	MUA D	ehumidification
30.0*	Heat Wheel Defrost Temperature	50.0*	Vent Mode Leaving Air Setnaid	55.0*	Outdoor Air Dewpoint Setpoint
35.0*	Heat Pump OAT Lockout		This make carried on second	Water S	Side Economizer
				3.0*	Entering Water Control Deadband

#### **Prism 2 Technical Guide**

## **STEP 8: CONFIGURING UNITS**

#### **Controller Setpoints**

If you position the cursor over the top of a setpoint box, a *Help Window* will pop up indicating how that setpoint is used by the controller.



If you enter a setpoint that is either too high or too low or if you don't have Level 3 access, Prism 2 will not accept the new value and will restore the previous value in that field.

Setpoints are contained in groups that are closely related, such as Temperatures or Staging Delays. When you select a button along the bottom of the screen, the corresponding list of setpoints will be displayed.

From each setpoint screen, you can *select* **<Save>**, **<Restore>**, **<Print Configurations>**, and **<Reset Factory Defaults>**.

#### NOTE: <Save>, <Restore>, and <Reset Factory Defaults>

saves, restores, and copies over ALL of the setpoints for a controller, not only those on a single setpoint screen.

#### **Save Setpoints**

You can save all setpoints from any controller to a file on your computer for use in restoring or for copying to another specific controller. *Select* **<Save>** from the *Top Menu Bar* of the designated setpoint screen. Give the setpoint file a name and *click* **<Save>**.

ve Cancel		
Look In: 😅 e.	CA Configuration Configuration Forther/tock History TenantLog001001	
Selected File		

#### **Restore Setpoints**

To re-load these setpoints from the file you created, *select* **<Restore>** from the *Top Menu Bar* of the designated setpoint screen. The only difference you will see from the above screen is the title of File Open instead of File Save. Find your designated setpoint file from the list of folders, and *click* **<Open>**.

🚍 File Open	X
Open Carcel Look In:  Control	C1 Trioril Configuration Forbletocock History TenentLog001001
Selected File C:PrismITVCMtempsetpoints.SPT	

If you try to load setpoints from one type of controller to a different type of controller, Prism 2 will display an error message and prevent you from making this mistake.

#### **Restore Factory Defaults**

To restore factory configuration and setpoint defaults for the selected unit controller, *select* **<Restore Factory Defaults>** from the *Top Menu Bar* of the designated setpoint screen.

**WARNING:** AAON does not assume any responsibility or liability due to misuse or misunderstanding of this feature. Restore Factory Defaults wipes out ALL current configuration and setpoints for a single controller.

The following message will display:

CLEAR SET	TINGS
?	Are you sure you want to Reset Factory Defaults? This will clear all current configurations and settings!
	Yes No

*Select* **<Yes>** to clear all configuration and settings and restore factory defaults. *Select* **<No>** to cancel this operation.

## **Controller Setpoints and Configuring Units Off-Line**

#### **Print Configurations**

To print all configurations and setpoints for the selected unit controller, *select* **<Print Configurations>** from the *Top Menu Bar* of the designated setpoint screen. The *Print Configuration Preview Window* will appear.

Print Configuration Preview	
ait Preview Print	
Job Name:	Fill in the Job Name, Location and Configured
Job Location:	By fields and then select
Configured By:	the Preview Menu to see the results.

Fill out the fields at the top of the window - Job Name, Job Location, and Configured By, and then *select* **<Preview>** to see the results. Below is an example. *Select* **<Print>** to print the results.

Configuration	n Preview	N			
review Print					
Print Certifiguration Preview       Image: Print       Job Name:       Job Name:       Job Location: Parkville, MO       Optimized By: [S. Olson]         Preview Print       Preview Print       Status       Preview Print       Preview Print       Preview Print       Preview Print       Print					
Location:	Parkv	ille, MO			By fields and then sele
int Configuration Preview     Freiew     Fill in the Job Name.       Job Name:					
*** Cont	rol	Systems	8500 NW R Paskville, M	iver Park Drive 10 64152	Phone: 816-505-1100 Fax: 816-505-1101 Toll Free: 866-918-1100
VCC)	X2 C	ontroller - Config	guration & S	etpoints	Worksheet
Friday, De	ecemb	er 29, 2017	Loop:	1	
Friday, De Unit Name	ecemb e:	er 29, 2017 VCC-X2 Controller	Loop: Unit:	1 1	
Friday, De Unit Name Job Name	ecemb e: e:	er 29, 2017 VCC-X2 Controller	Loop: Unit:	1 1	
Friday, De Unit Name Job Name Location:	ecemb e: e:	er 29, 2017 VCC-X2 Controller Parkville, MO	Loop: Unit:	1 1	
Friday, De Unit Name Job Name Location: Configure	ecemb e: e: ed By:	er 29, 2017 VCC-X2 Controller Porkville, MO S. Olson	Loop: Unit:	1 1	
Friday, De Unit Name Job Name Location: Configure	ecemb e: e: ed By: sor Sci #1 Ini	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson aling	Loop: Unit: PARDENNEIT IES	1 1	
Friday, De Unit Name Job Name Location: Configure	ecemb e: e: ed By: sor Sou #1 Ini #2 Ini #3 Ini	er 29, 2017 VCC-X2 Controller Porkville, MO S. Olson 1169 11161 1121 1121 1121 1121 1121 112	Loop: Unit: FARRENHEIT TES NO 100	1 1	
Friday, De Unit Name Job Name Location: Configure #001 Sens #002 RSM #003 RSM RSM #004 RSM	ecemb e: e: ed By: *1 Ini *2 Ini *3 Ini *4 Ini 50 Inst	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson hilfon talled talled talled	Loop: Unit * FARREINE IT * TZS * NO * NO * NO * NO	1 1	
Friday, De Unit Name Job Name Location: Configure #001 Sens #002 RSM RSM #003 RSM RSM #004 RSM RSM RSM RSM RSM RSM RSM RSM RSM RSM	ecemb e: e: d By: sor Sor sor Sor sor Sor sor Sor so Ins to Ins Type. Insta	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson Ing. Ing. Ing. Ing. Ing. Ing. Ing.	Loop: Unit: 7245R25HREIT 725 180 180 180 180 180 180 180 180 180 180	1	
Friday, De Unit Name Job Name Location: Configure #001 Sen: #002 R3M #003 R5M R3M #003 R5M R3M #004 R5M5 R5M #004 R5M5 R5M	ecemb e: e: d By: sor Sor #1 In: #2 In: #3 In: #4 In: SD Ins: Type In:stal pLY In:	er 29. 2017 VCC-X2 Controller Parkville, MO S. Olson http:///inteled. talled. talled. talled. talled. talled. talled. talled. talled.	Loop: Unit: 725 100 100 100 100 100 100 100 100 100 10	1	
Friday, Do Unit Name Job Name Location: Configure #001 Sens #002 R3M #003 R5M #003 R5M #004 R5M R5M #005 EM1 12 J #006 M802 EXP	ecemb e: e: d By: sor Sor #1 Int #2 Int #3 Int SD Inst Type Instal RLY Int RLY Int RV Inst	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson 1109. 100. 100	Loop: Unit: 724RR80H817 725 180 180 180 180 180 180 180 180 180 180	1	
Friday, De           Unit Name           Job Name           Location:           Configure           #001 Sens           #003 RSM           #004 RSM           #005 EMI           #006 MBBB           #006 MBBB           #006 MBBB           #007 MODO           #007 MODO	ecemb e: e: e: d By: sor So: #1 In: #2 In: sor So: #3 In: #3 In: sor So: #3 In: sor So: In: sor So: So: sor So: So: So: sor So: So: sor So: So: So: So: So: So: So: So: So: So:	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson hing tailed tailed tailed tailed tailed tailed tailed tailed tailed tailed	Loop: Unit: TES 100 100 100 100 100 100 100 100 100 10	1	
Friday, De           Unit Name           Job Name           Location:           Configure           #001 Sena           #002 R3M           #004 R5M           R3M           #005 EMI           12 F           #006 R5M           #007 M000           XMR           #006 R5M           #007 M000           XMR           #008 Pret	ecemb e: e: e: e: e: e: e: e: e: e: e: e: e:	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson talled.	Loop: Unit: 755 180 180 180 190 190 190 190 190 190 190 190 190 19	1	
Friday, De Unit Name Job Name Location: Configure #002 RBH #003 RDH #004 RDH #005 PEH #006 PEH #006 PEH #006 PEH #007 MOD XXRF	ecemb e: e: e: e: e: e: e: e: e: e: e: e: e:	er 29, 2017 VCC-X2 Controller Parkville, MO S. Olson ling	Loop: Unit: TES 100 100 100 100 100 100 100 100 100 10	1	

#### **Output Overrides**



Some controllers allow you to manually override a relay or analog output to any condition you wish. You must exercise caution when forcing outputs, because you have the potential to damage equipment by short-cycling compressors or performing other undesired control settings.



If your controller supports relay overrides, clicking on a relay indicator will cause a box similar to the one at left to appear. *Clicking* on an analog override will display the *Override Voltage Box* as shown below.



Any voltage between 0.0 and 10.0 volts is considered valid and will force the output to that value. To cancel an override, *click* **<Cancel Override>** or enter a -1.0 value for the Override Voltage.

Prism 2 will maintain relay and analog output overrides for as long as communications are open to your system. If you close communications or the Prism 2 program, the overrides will time-out after 10 minutes.

If you set an override from your computer, no one else will be able to change that override from their computer. Only the initiating party can clear or change an override condition.

#### **Refreshing the Screen**

Once you have configured a unit, you may have to *click* the **<Refresh>** button found on Prism 2's *Top Toolbar* to have the new configuration appear on the unit's status screen.

#### **Configuring Units Off-Line**

You can set up units off-line in the event you cannot access controllers. For example, you can set the controllers up in your office prior to going to a job-site and save the entered setpoints to a file. When you get to the job-site, you simply *click* **<Restore>** in each controller's setpoint screen and open the saved setpoints file.

Maintenance	Setup Help			
Restore Unit Names				
Setup Units	; Off-Line			

To configure units off-line, *click* **<Setup Units Off-Line>** from the **Maintenance Menu**.

D# 000	- No Unit Selected	~
D# 001	- Unknown Type of Unit	
D# 002	- Unknown Type of Unit	_
D# 003	Simple Zone Box Controller	
D# 004	- Simple Zone Manager	
D# 005	- Constant Volume Package I	Unit Cor
D# 006	- Constant Volume Package L	Unit Cor
D# 007	- Simple Zone Constant Volu	me Com
D# 000	- Dual Duct Air Handler	
D# 009	- Dual Duct Zone Controller	
D# 010	- Chiller Controller	
D# 011	- Dual Duct Air Handler	
D#012	<ul> <li>Unknown Type of Unit</li> </ul>	
D# 013	<ul> <li>Unknown Type of Unit</li> </ul>	
D# 014	- Unknown Type of Unit	
D# 015	<ul> <li>Unknown Type of Unit</li> </ul>	
D#016	<ul> <li>Unknown Type of Unit</li> </ul>	
D# 017	<ul> <li>Cave Zone Manager</li> </ul>	~

*Click* anywhere in the *Unit Selection Window* on the *Main Screen* and the *Available Unit Types Window* will pop up. Use the scroll bar to scroll through and select the unit type that you want to configure. When you *click* on the unit type, the unit controller's setpoint screen will appear. Enter all setpoints and save the file, giving it a unique file name associated with a location at your job-site, e.g. Bill's office.

## **STEP 9: CONFIGURING ALARMS**

#### **Configuring Alarms**

#### **Step 9: Configuring Unit Alarms**



You can configure which alarms can generate callouts or e-mails by accessing the *Unit Alarm Screen* for each controller on your system. The *Unit Alarm Screen* is accessed from each controller's status

screen by *clicking* the **<ALARM>** button. This button will be a dull red and display **<No Alarms>** when there are no alarms present or will be bright red and display **<ALARM>** if active alarms exist.

*Click* the **<ALARM>** button when bright red or the **<No Alarms>** button when dull red. The *Unit Alarm Status & Configuration Screen* will appear.

Below are samples of the *Unit Alarm Status & Configuration Screen*. This screen also displays the Alarm Status for each enabled alarm. Each individual **<ALARM>** button will be bright red if an alarm exists and will be gray if no alarm exists or if the alarm is not enabled.

You must *check* the box associated with each alarm in order for the system to alert you of each alarm. You must also select **Alarm Polling Enabled** in the *Job Sites Window* in order for Prism 2 to actively poll for alarms.

If there is an active alarm condition, it will be indicated by the **<ALARM>** button located in the upper right corner of the *Prism 2 Main Screen*.

Colored Morea Carillair 8 - 1		
VAV Controller	Unit ID # 120	ALARM

You can always view all active alarm conditions for a specific controller from its individual status screen, but only alarms designated for notification will appear on the *Prism 2 Main Screen* alarm display. The Alarm display is described in detail in the section "Alarm Polling" on **page 27**.

🐞 Unit Ala	rm Status & Configuration
Exit	
Selected Unit	t on Loop 1 Address 2 VAV / Zone Control
Enable	d
	ALARM Bad or Missing Space Sensor
	ALARM CFM Sensor Failure
	ALARM Damper Failed While Driving Open
	ALARM Damper Failed While Driving Closed
	ALARM High Space Temperature Alarm
	ALARM Low Space Temperature Alarm
	ALARM Damper Feedback Failure
Ready	

Enabled		Enabled		Enabled		Enabled		Enabled	
2	Category	R	Category	2	Category	1	Category	1	Category
ALARM	Sensor Failure	ALARM	Mechanical Failure	OK	Failure Modes	ОК	Expansion Boards	ок	Compressor Alarms
ОК	Supply Air Sensor	OK	Mechanical Cooling Failure	ОК	High Supply Temp Alarm	OK	Compressor Module #1	OK	Compressor Module
OK	Return Air Sensor	OK	Mechanical Heating Failure	ОК	Low Supply Temp Alarm	OK	Compressor Module #2	OK	Compressor Module
ALARM	Outdoor Air Sensor	OK	Fan Proving Failure	ОК	High Control Temp Failure	ОК	Compressor Module #3	ОК	Compressor Module
ALARM	Space Sensor	ОК	Dirty Filter Alarm	ОК	Low Control Temp Failure	ОК	Compressor Module #4	ОК	Compressor Module
ОК	Carbon Dioxide Sensor	ALARM	Emergency Contact	ОК	Pre-Heater Alarm	ОК	Pre-Heater Module		
OK	Relief Pressure Sensor	ОК	Relay Runtime Exceeded	ОК	Sump Drain	ОК	MHGR-X Module		
OK	Outdoor Airflow Sensor	OK	Economizer Feedback Missing			ОК	MODGAS-X Module		
OK	Exhaust Airflow Sensor	OK	Title 24 Economizer Alarm 'A'	{ Air Temp	erature Sensor Failure }	ОК	EM1 Expansion Module		
ОК	Supply Airflow Sensor	OK	Title 24 Economizer Alarm 'B'	{ Not Econ	omizing When it Should }	ОК	12 Relay Expansion Module		
ОК	Return Airflow Sensor	OK	Title 24 Economizer Alarm 'C'	{ Economi	zer When it Should Not }				
ОК	Space Humidity Reading	OK	Title 24 Economizer Alarm 'D'	{ Damper	Not Modulating }				
		OK	Title 24 Economizer Alarm 'E'	{ Excess O	utdoor Air Failure }				

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VCCX Controller Alarm Status

Exit

#### Alarm Polling

## Step 10: Alarm Polling

**NOTE:** This section applies to Prism 2 Alarm Polling only. For System Manager Touch Screen Alarm Polling, see **Appendix C**.

Prism 2 can be configured to poll the system consistently for alarm information reported by each installed controller. For the system to poll for alarms, you must have **Alarm Polling Enabled** checked in the *Job Sites Window*.

Only the alarms that have been previously configured on the *Unit Alarm Status & Configuration Screen* for each type of controller will activate an alarm in this display window. Alarms not configured will only be reported on the *Unit Alarm Status & Configuration Screen* accessed from each individual controller's status screen.

Whenever Prism 2 indicates it is **On Line**, it will poll the system every 30 seconds for new alarm conditions. If any new alarms are detected on the system, the Alarm Indicator located in the upper right corner of the *Prism 2 Main Screen* will turn red and display **<ALARM>**.



When you *click* on the alarm indicator, the *Alarm Display* will appear on the *Main Screen* with a list of the new alarms and any old alarms still left in the alarm log file.

and a second sec	-	State State	and the second second		and the second second			A support of the second se	Statistics - Statistics
lie Communications	dainten	ance Se	etup Help						
🍠 🚯 🍝 🗌	1	3 🚯	2	MinLi	-xxx 1 -x #1	Selected No.	DBK Control	es Unit ID # 192	
nine garos	Correct 10 60 1	ction 1252	Sock et	Loci yo.	ed Taska III III IIIIII				
Site Selection	100	ACK	Date	Time	Node	Loop	Unit	Location	
01 - DEMOMODE	-	4	11/26/2018	10:10 AM	001	01	40	VCBK Controller	Mechanical Failure
22 - Ten's Test Bench-Wald	10	4	11/26/2018	10:09 AM	001	01	25	VCC-X2 Controller	Unknown Alarm
03 - Hanes Furniture 04 - Volk Brobation & Pavole		4	11/26/2018	10:09 AM	001	01	2.5	VCC-X2 Controller	Sensor Failure
05 - Grenville SSA	-	4	11/26/2018	10:07 AM	001	01	24	VCC-X Controller	Unknown Alagm
Node Selection	-	4	11/26/2018	10:07 AM	001	01	2.6	VCC-X Controller	Sensor Fallure
102 - 103 - 104 - 105 -									
01 - MinLink #2 02 - MinLink #2 03 - 04 - 05 -	â								
07 - 08 - Unit Selection									

Alarms are displayed with the newest ones appearing at the top of the list. This sample list shows two old alarms that have been acknowledged with a checkmark and numerous alarms that have not been acknowledged yet.

The Date and Time of the alarm are recorded when Prism 2 actually polls and receives the alarm condition. It does not accurately reflect when the alarm occurred unless Prism 2 is left running continuously and can log the alarms as they occur.

Acknowledging the alarms lets the system know you have been notified and are fixing the problem.

To acknowledge all alarms, *click* the blue **<ACK>** button. A checkmark will appear in front of each alarm.

#### **Printing and Deleting Alarms**

#### ALARM EXIT

For printing and deletion options, *click* on **<ALARM>** at the top right in the alarms list next to the **<EXIT>** icon, and the following menu will appear:

Print Today's Alarms Print All Alarms	
Select Alarms to Delete	•

To print just the alarms that have come in today, *select* the first option **<Print Today's Alarms>**. You should see a *Print Preview Window* like the one shown below.

hint						
Alarm R	Report					
Thursday, / 03:54 PM	August 1, 2019					
Tim's Test	Bench-Watch For	Smoke				
DATE 08/01/2019	TIME NODE 03152124PM 001	1000 UNIT 01 07	LOCATION VCBX Controller	ALARM	Failure	
		L.	Distant F		and a second state particular and a second	

The printer you wish to send it to can be selected in the lower right corner.

If you *select* **<Print All Alarms>**, all old and new alarms that still exist in the alarm log will be sent to the *Print Preview Window* for printing.

Delete	Alarms			
Cancel	Delete			
(	Delete Oldest	1	Alarm(s)	
0	) Delete ALL Alarm	s in the	Alarm Log File	

To keep the alarm log file from growing too large, you can delete specified alarms from the log by *selecting* **<Select Alarms to Delete>**. The following window will appear.

**NOTE:** Only a Level 3 user can delete alarms.

You can delete the oldest alarms that no longer need to be maintained, or you can delete the entire alarm log file and start fresh. Once you make your selection, *click* **<Delete>**.

You should periodically delete logged alarms because the file can grow quite large and can slow down the system.

## Trend Logging

## Step 11: Trend Logging and Printing



Before you select this option, you should close any other open status, setpoint, or diagnostic screens. To display trend log data, from the *Prism 2 Main Screen Top Toolbar*, *click* the **<Logging>** button. **NOTE:** If

you have transferred your Prism 2 files onto a new computer, you must first open each unit's *Details Screen* accessed from the unit's *Status Screen* in order for the trend log function to work properly. Then *click* the **<Trendlogs>** button at the top of the *Details Screen*.

**NOTE:** You can also view a unit's trend logs by *clicking* the **<Trendlogs>** button from a unit's *Details Screen*.

The *Trend Logs Screen* will open. It will be empty until you select a menu option. The name of the controller you were viewing before you accessed this screen will be displayed in the *Title Bar*. If you weren't viewing a controller, the first unit on the first loop would be designated in the *Title Bar*.





You can change the controller by *clicking* **<Select Unit>**. The *Select Unit Dialog Box* will appear as displayed at left.

*Highlight* the Node, Loop, and Unit of the desired Controller. The Unit Address and Name should now appear in the *Trend Logs Screen Title Bar*.

Once you have selected the desired unit, you can either load the most recent log data by *selecting* **<Load Log>** or load previously stored logs by *selecting* **<Select Log>**. To view recent data, *click* **<Load Log>.** The Trend Log Report will load with the most recent log data. An example of a Trend Log Report appears as follows:

Tre	ndlo	g R	eport													
Job- Type Unit	Site # of Un Selec	13 hit tion	Desktop ( Unknown VCBX Co	Commlin Type of ntroller	k Unit											_
Row	Date	Time	Mode	avac	Space	InSt	CSP	HSP	SAT	SATSP	Discha	BAT	L War	OAT	CA 38	CA DP I
0001	03-08	00:05	6	0	74.0	0	00.0	60.0	65.9	75.0	180.2	0.0	0.0	\$4.4	0	0.0
0002	03+08	03:20		0	76.0	0	88.0	68.0	65.9	75.0	180.2	0.0	0.0	\$4.4	0	0.0
0003	03-08	03:35	0	0	76.0	0	88.0	68.0	65.9	75.0	100.2	0.0	0.0	54.4	0	0.0
0004	03-08	03:50		0	76.0	0	88.0	68.0	65.9	75.0	180.2	0.0	0.0	\$4.4	0	0.0
0005	03+08	04:05		0	76.0	0	88.0	48.0	45.9	75.0	180.2	0.0	0.0	\$4.4	0	0.0
0006	03+08	04:20	0	0	76.0	0	88.0	68.0	65.9	78.0	180.2	0.0	0.0	56.4	0	0.0
0007	03-08	04:35	- <u>*</u>	0	76.0		88.9	69.0	65.9	75.0	180.2	0.0	0.0	54.4	0	0.0
0008	03-08	04:50		0	74.0	0	88.0	48.0	65.9	75.0	180.2	0.0	0.0	\$6.4	0	0.0
0009	03-08	05:05		0	76.0	0	88.0	68.0	65.3	78.0	180.2	0.0	0.0	56.4	0	0.0
0010	03-08	06:20		0	76.0		00.0	68.0	65.9	75.0	100.2	0.0	0.0	56.4	0	0.0
0011	03-08	05135	S		76.0		88.0	48.0	45.9	75.0	180.2	0.0	0.0	54.4	0	0.0
4444	03-08	44.44			76.0			60.0	65.7	78.0	100.4	0.0				0.0
0024	03-08	14:30			76.0			40.0	45.7	78.9	100.2	9.9	0.0	24.4		0.0
0014	03-08	44.35			74.0			48.0	45.4	78.0	140.2	0.0	0.0	14.4		0.0
0014	02-08	44-54	· .		76.0		48.4	68.0	61.9	75.0	180.2	0.0	0.0	56.4		0.0
0017	03+08	07:05		0	76.0	0	88.0	68.0	65.9	75.0	180.2	0.0	0.0	56.4	0	0.0
0018	03-08	07.20		0	76.0	0	88.0	48.0	65.5	75.0	180.2	0.0	0.0	54.4	0	0.0
0019	03-08	07:35	0	0	76.0	0	88.0	68.0	65.9	75.0	100.2	0.0	0.0	\$6.4	0	0.0
0020	03+08	07:80		0	74.0	0	88.0	48.0	65.9	75.0	180.2	0.0	0.0	16.4	0	0.0
0021	03-08	08:05		0	76.0	0	88.0	68.0	65.9	75.0	180.2	0.0	0.0	54.4	0	0.0
0022	03-08	08:20	0	0	76.0	0	88.0	68.0	65.9	75.0	180.2	0.0	0.0	\$6.4	0	0.0
	03-04	10-35		0	76.0		88.0	68.0	\$5.9	28.0	180.3	0.0	0.0	56.4	0	0.0

Please note that there may be more than one page. You can scroll through pages with the page scroll at the bottom of the screen.

To view previously saved log files, *click* **<Select Log>**. The *Log Selection Window* will appear. Prism 2 will search the folder of the specified unit to determine which days of the year a log has been saved. If you are auto-logging, every day of the year will display in red.

From this screen you can see highlighted days of the year (represented with a red background) that indicate a log was saved for this controller on that day. *Click* on any highlighted date to load the data.

To print a log, first *select* a printer from the *Default Printer Selection Dialog Box* located at the bottom right of the *Trend Logs Screen* and then *click* **<Print>**. Every time you open Prism 2, this printer selection will be the default printer until you change it.

													10000														
												4	2	019	۲												
		Ja	inua	ry					Fe	bru	ary					N	larc	h						April			
S	M	Т	W	Ť.	F	S	S	M	Т	W	Ť	F	8	S	M	т	W	Т	F.	8	S	M	T	W	т	F	S
		1	2	3	4	5						1	2						1	2		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	28	29	30				
														31													
			May							Jun							July							uque	st		
S	M	т	W	т	F	S	S	M	Т	W	т	F	S	S	м	т	W	т	F	S	S	М	T	W	т	F	S
			1	2	3	4							1		1	2	3	4	5	6					1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	31
							30																				
		Ser	tem	ber					0	ctot	er					Nos	/em	ber					Dec	em	ber		
S	м	T	W	Т	F	S	S	м	Т	W	Т	F	S	S	М	T	W	Т	F	S	S	M	T	W	т	F	S
1	2	3	4	5	6	7			1	2	3	4	5						1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
00	30						27	28	20	30	31			24	25	26	27	20	29	30	20	30	21				

**NOTE:** If you select a printer from this list box, it will become the default printer for all programs on your computer unless you select a different printer in Prism 2 or from the Windows<sup>®</sup> Control Panel.

	Xerox DocuTech 135 PS2	
	PrimoPDF	
	Microsoft Office Document Image Writer	
	hp indigo RIP 5.0	
	Gestetner C7528n RPCS	
	Gestetner 6002 PCL 5e	
	Winktg-bc-xpVEPSON Stylus Photo 1280	
Default Printer:	Gestetner 6002 PCL 5e	¥

To graph data from a log, *click* **<Graph>**. The *Log Selection Window* will appear again. *Select* a highlighted date to graph. The *Trendlog Graph Screen* will fill up your entire computer display. *Click* **<Exit>** to return to the *Trend Log Screen*.

**NOTE:** Some controllers don't have the ability to create line charts of the logged data. If this is the case, Prism 2 will display one or more message boxes informing you that it cannot display line graphs.

Below is a sample line graph display from a Variable Air Volume Box Controller.

If you would like to export a day's worth or month's worth of log data for further analysis not provided in Prism 2, *select* either **<Export Daily>** or **<Export Monthly>**. Prism 2 will create a comma delimited .CSV file that can be opened in most spreadsheet and database applications.



If you *select* **<Export Daily>**, the process is done automatically. Prism 2 will display the file name and location created for the exported data.

If you *select* **<Export Monthly>**, the following dialog box will appear:

Exit			
Selected Month			
January		Currently Extracting Data for:	
Selected 'Year		Loop # 0 Unit # 0	
2018 2 Begin	Processing		
Beadu			

Select a month from the Selected Month drop down box, select a year from the Selected Year scroll box, and then *click* **<Begin Processing>**. When the processing is done, the message DONE will appear in the bottom status bar of the window. Your data will be saved in your Prism 2 directory within a new subfolder titled Export.

FILE SAV	VED 🛛
•	Comma Delmited Data Saved to: C:\PrismII\Export\Log0010010115.CSV

## **STEP 11: TREND LOGGING & PRINTING**

## Viewing History and Tenant Logs

#### **File Menu**

There are four options located under the File Menu—<View History Log>, <View Tenant Logs>, <Print Unit Descriptions>, and <Edit Passcodes>. The <Edit Passcodes> function is described on page 9.



#### **View Tenant Logs**

To view tenant logs for a selected loop and month, *click* **<View Tenant Logs>** from the **File Menu**. You must *click* **<Load>** for the data to post in the empty window.

D Te	nant l	logs							1
Exit	Load	Pri	nt						
Select	ed Not	se, Loc		onth to	View	(		Data for Selected Loop & Month	
\$1-5	tain St	te							
#1-5	InLini	#1	_		_				
€ 4 Sun 7 14 21 28	Mon 1 8 15 22 29	9 16 23 30	Wed 3 10 17 24 31	201: Thu 4 11 18 25	8 Fri 5 12 19 26	Sat 6 13 20 27			
0%	Lo	g Retri	eval Pr	rogres	5	Can	cel	· · · · · · · ·	

To print the logs, *select* **<Print>**.

## View History Log

Prism 2 tracks most user interactions such as logging on and off, changing setpoints, acknowledging alarms, etc. These are selected and displayed on the *History Logs Screen* when you *click* **<View History Log>** from the **File Menu** and choose a month and year:



History Logs are encrypted and cannot be viewed or modified by other programs. A permanent monthly record is maintained, and new files are created each year so that logs from previous years can still be viewed at any point in time.

#### **Print Unit Descriptions**

To obtain a hard copy of installed units and their descriptions, *click* **<Print Unit Descriptions>** from the **File Menu**. The *Print Preview Screen* will appear, allowing you to preview the printout before actually sending it to the printer. Only loops with installed units will be presented for printing.

Tuesday, January 02, 2018 10:53:24 AM Location: Job-site #3	Node Loop	Main Site MiniLink #1	
UD#         DBSCRIPTION           01         186         VUC-X2 Controller           034         000         0           055         000         0           066         000         0           070         000         0           080         000         0           09         000         1           112         000         1           13         000         1           14         000         1           18         000         1           18         000         1           19         000         1           21         000         1           22         000         1           23         000         1           24         000         1           23         000         1           24         000         1           25         000         1           26         000         1           27         000         1           28         000         1           29         000         1	TYPE OF URIT Unknown Type of Unit		

#### **Tenant Override Logging**

## Step 12: Tenant Override Logging

This is an optional configuration that allows a building owner to log the amount of time per month that selected controllers on a loop have been put into the Unoccupied Override Mode. From this information, tenants can be billed for additional energy usage beyond normal Occupied operation.

In order to set up Tenant Override Logging to work with the System Manager TS, you must have a CommLink and MiniLink Polling Device installed on your system. The following procedure must be done for the MiniLink Polling Device on each loop.



In the *Loop Selection Window* of the *Prism* 2 *Main Screen, select* the loop where your MiniLink Polling Device is located. Then, in the *Unit Selection Window scroll down* to Address 60 - MiniLink PD and click once on your selection.

Read

te	d Unit e	on Loo	p 1 Address 60	Mint.	nk.PD					
nl	igural	tion								
	Туре	or s	rstem							
	CT	his Po	Iling Device	s Installed	on a Zoned Vo	ting System				
	• т	his Po	Iling Device	is Installed	on a VAV Syste	em				
ī	3	-	Address of L	ast VAV/Zor	ie Controller o	n Local Loop				
1	0	-	Optimal Star	t Target Zo	ne [-1 = Ave	rage All Zones	0 = No Optimal 9	start Zones 1-5	8 = Target Zone ]	
_										

*Click* the **<Tenant Logging>** option at the top far right of the *Polling Device Setpoints Window*. The *Tenant Logging Window* will appear.

cted Unit on Loop 1 Address 60	MiniLink PD		
nant Logging			
AC	heckmark Indicates ti	he Unit Will Be Polled for Tenan	t Logging
#01: -VAV/ Zone Control	<b>#16:</b> -	F #31: -	F #46: -
7 #02: -VAV/ Zone Control	#17: -	F #32: -	F #47: -
#03: -VAV Box Controller	#18: -	F #33: -	F #48: -
#04: -	F #19: -	T #34: -VCM Controller	F #49: -
#05: •	F #20: -	F #35: -	F #50: -
#06: -	F #21:-	F #36: -	F #51: -
#07: -	F #22: -	F #37: -	F #52: -
#08: -	F #23: -	<b>#30:</b> -	F #53: -
#091	F #21:-	F #39: -	F #51: -
#10: -	F #25: -	<b>#</b> 40: -	F #55: -
#11:-	F #26: -	F #41:-	F #56: -
#12: -	F #27: -	F #42: -	#57: -MUA II
#131 -	F #291 -	F #40: -	#58: -VCM Air Handler
#14:-	F #29: -	F #44: -	#59: -VCMX Air Handler
#1N:-	E #0.	E	E and -mount-en

In the *Tenant Logging Window, click* the box to the left of each controller to choose tenant logging for that controller. A check mark in the box designates that the unit will be polled for Tenant Logging.

The Polling Device Window will appear.



*Click* **<Setpoints>** at the top of the screen. The *Polling Device Setpoints Window* will appear.

## **STEP 13: CREATING CUSTOM SCREENS**

#### **Custom Screens Overview**

## Step 13: Creating Custom Screens

Once all units have been detected and named and the system is up and running, you can begin creating your own custom status screens using the built-in Graphics Editor.

You can create simple floor-plans, summary screens, and even screens containing an equipment photograph with temperatures overlaid on the equipment.

Not all status fields on the standard status screens are available on custom screens. But you can place temperatures, damper positions, carbon dioxide, and other similar types of readings. You can also add an alarm indicator for specified units. Some items that cannot be displayed are occupied/unoccupied modes, fan status, or any other binary style of data.



To access Custom Screens, *click* **<Custom>** on the *Prism 2 Main Screen Top Toolbar*. You must have a Level 3 passcode to access this item.

<b>%4</b> C	Custom Screens	
File	View Live	
N	lew Screen 🛛 🗧	
0	pen Screen	
Si	ave Screen	
E	×it	

From the *Custom Screens Window's* **File Menu** you can start new custom screens, edit existing screens, or open a custom screen for viewing live data.

To start a new screen, *click* **<New Screen>** from the **File Menu**.

Selecting **<New Screen>** will clear any old screen data if any exists or will refresh the memory to begin a

new screen. Before you start, it's a good idea to create a filename for the screen you are about to create.

*Click* **<Save Screen>** from the **File Menu** to open the *File Save Window*.

File Save		
ave Cancel		
Look In: e: Selected Directory	Cl Print Configuration Configuration Further dock History	-
custom CUS Sample.CUS testscreen.CUS	LogOene00106010102	
Selected File SampleScreen		

In the example above, you can see we gave the screen the filename SampleScreen in the **Selected File** box. This sample screen will be saved in the main Prism 2 directory once you *click* **<Save>**. **<Open Screen>** defaults to the main Prism directory, so if you save your file to a different folder or drive, you will have to remember where you saved it.

At the top of the Custom Screens Window is the Placement Toolbar.



To see a text message overview of a button's function, *hold* the mouse cursor over a button without clicking.

Following is a quick overview of each Placement Toolbar button's function and when it should be used.



Align Left: Use this button to align a group of selected text or data boxes with the left edge of the left most selected item.



**Align Right**: Use this button to align a group of selected text or data boxes with the right edge of the right most selected item.



**Align Tops**: Use this button to align a group of selected text or data boxes with the top edge of the uppermost selected item.



**Align Bottoms:** Use this button to align a group of selected text or data boxes with the bottom edge of the lowermost selected item.



**Equal Vertical Space**: Use this button to equalize the vertical spacing between a group of selected text or data boxes. Boxes are equally spaced between the uppermost and lowermost selected items.



**Equal Horizontal Space**: Use this button to equalize the horizontal spacing between a group of selected text or data boxes. Boxes are equally spaced between the left most and right most selected items.



**Equal Height**: Use this button to make all selected items the same height as the uppermost and left most selected item.



**Equal Width**: Use this button to make all selected items the same width as the uppermost and left most selected item.



**Place Data**: Use this button to place a new data field on the screen. New data fields are always placed in the upper left corner of the screen and you will need to move them to the desired location. If you place several data fields at one time, they will overlay on top of each other until you drag them apart for placement.



**Place Text:** Use this button to place a text field on the screen. As with the data fields, these will always be initially placed in the upper left corner. You will need to move them to the desired location.

## **Creating a Sample Screen**



**Place Jump**: Place a Jump button on your custom screen if you want to directly jump to other custom screens from this screen. You can place a Jump button on any of those screens to jump back to this originating screen.



**Place Image**: Use this button to select and load a graphic image onto the background of your custom screen.



**Background Color**: If you are not placing any background pictures, use this button to select a background color for your custom screen.



**Edit Bitmap**: Use this button to edit the loaded graphic image if it is in a format that is readable by the Microsoft<sup>®</sup> Paint program.



**Cut or Delete Item**: If you placed a text or data field by mistake, you can delete it from the screen with this button.



**Trash**: Use this button to clear the screen completely of all items.



**Font**: Use this button to edit and format text.



**Point/Edit Data**: Use this button to edit and format data.



**Range/Edit Data**: Use this button to select a temperature range for colorizing a floorplan.

## Creating a sample screen



*Click* the **<Place Data>** button.



A new data field labeled **Data 1** will appear in the upper left corner of the screen.

You can *left-click* the box, *hold* the mouse button down, and *drag* it to a new location.



Now *click* on the **<Place Text>** button to place a text field on the screen.

D VI	ew Live				
(	-	T	+	Ŧ	
					'ext 2
				C	ata 1

*Move* the text field above the data box the same way you moved the data field. Your screen should now look like the one shown at left.

Let's say you want a Space Temperature data field and want the text box to identify it. The next step is to change the text in the Text Box and also its appearance to identify the data file.



*Click* the box labeled **Text 2** and then *click* the **<Edit Text>** button.

The *Style Selection Window* will appear. This window allows you to change the appearance and the actual text in the Text Box. Make the selections shown in the example.

		Style Sel	ection	
		Duplic	ate Previou	s Settings Undo
		Text A	lignment	Border Style
ata.	Space	OLeft		<ul> <li>None</li> </ul>
	Data 1	💿 Cer	nter	◯ Fixed Single
	1 Data 1	ORig	ht	-
				Background Style
ure		🗆 E	Bold	<ul> <li>Transparent</li> </ul>
			tolio	🔿 Opaque
			Canc	
		Те	at Color	Back Color
		Text B	ov Cantion	(Not Data Fields)
		Space	Temperatur	(Not Data Fields)
		Jump F	ield Filena	me
		Size	Fo	nt Selection
		8	Alexande	rBecker-ExtraLight 🔼
		9	Alexander	Becker-Heavy
		11	Alexander	BeckerOutline
ear		12	Algerian	
		14	Allegro B	r PP
		18	Ambiente	LightDB
use		20	AmdtSym	ibols
on.		22	AMGDT	
		24 26	Arial	~
		20	r anai	

## **STEP 13: CREATING CUSTOM SCREENS**

## Save Screen and View Live Screen

You should have changed the appearance of the text in the text box and changed the text to read Space Temperature. You will notice that only the word **Space** can be seen. You need to re-size the text box so that both words appear.



Now you need to assign a data point to the **Data 1** box so that the program knows which controller to read the Space Temperature from.



*Click* on the **Data 1** box and then *click* the **<Edit Data>** button.

The *Unit Select Window* will appear. Remember, you must have previously performed a Search For Units or manually configured units before this function will work properly.

	Controll	er & Da	ta Selection	
Space Temperature	Node Selection		Data Selection	
-	001 - Emerald City	A	None Selected	
Data 1	002 -		Space Temperature	
	003 -		Cooling Selpoint	_
	004 -		Heating Setpoint	
	005 -		Ducl Temperature	
	006 -		Discharge Temperature	
	007 -		Damper Position	
	008 -	~	Airflow	
	Loop Selection		Alarm Status	
	001 - MiniLink #1	A		
	002 - MiniLink #2			
	003 -			
	004 -			
	005 -			
	006 -			
	007 -			
	008 -	~		
	Unit Selection			
	001 - VAV Controller	*		
	002 - VAV / Zone Control			
	003 -	-		
	004 -			
	005 -			
	006 -			
	007 -	1000		
	008 -	V		

In the example above, the second Controller on Loop #1 along with the Space Temperature data point is selected. Once the data point is selected, this window will automatically close. If you re-open this window on a previously defined data box, it will show the selected unit and data point.

Now that you have formatted your text and data box and assigned a data point, you should save the file and then test it to see if live data actually appears.

*Click* **<Save Screen>** from the **File Menu** to save this custom screen. Next, *click* **<View Live>** to activate the *File Open Window* so that you can select which custom screen to view. *Reselect* this SampleCustom.CUS screen file.

Space Temperature 73.5°F If you are **On Line** and connected to your system, you should now see live data appear from the selected controller as shown at left.

You can *left-click* on any active data field displaying live data and be taken to the status screen for the controller. When you close the status screen, you will automatically return to the previous custom screen you had open.

#### **Placing a Jump Field**

## **Miscellaneous Edit Functions**

6

The following is a quick overview of some of the other editing buttons you did not use in the creation of your first sample screen.



The alignment and sizing buttons require selection of multiple text and data fields. Selecting multiple items is as simple as *left-clicking* in the uppermost and leftmost position you want to select and then *dragging* the outline box around the controls you want selected before *releasing* the mouse button.

Once you *release* the button, the selected text will be gray and the fields will be surrounded by dashed lines.

Now you can align all three boxes to the left or right, space them equally, or even drag all three to a new location if you *click* and *hold* inside the original outline you made to select these three fields.

**NOTE:** The program always aligns items with the top left most item no matter which alignment option you choose.

Once you have finished aligning, sizing, or moving these controls, you can *deselect* them by *clicking* anywhere on the outside of the original box you outlined to select the fields.

## **Placing a Jump Field**

Let's say you have built a custom screen of space temperatures from several zone controllers and you would like to jump to another floor plan or maybe to an *Air Handler Screen* for the unit that services these zones.



*Click* the **<Place Jump>** button to place a jump box in your custom screen. *Left-click* on the jump box and then *click* the **<Edit Text>** button to select the jump field filename in the *Style Selection Window*.



In the example that follows, a Jump button was created called AHU, and whenever it is selected, the program will jump to a file called SampleScreen.CUS. In this

manner, you can link floor plans or campuses or equipment in logical groups and access them with a single button click instead of manually selecting the filename from the *File Open Window*.



In the SampleScreen.CUS screen and each preceding screen, you would want to create a Jump button to jump back to the first screen and so on.

## Placing an Image



## Placing an Image

If you want graphics displayed along with the data and text, *click* the **<Place Image>** button to launch a *File Open Window* and load a graphic onto the form. The file format is limited to BMPs, GIFs, TIFFs, JPEGs, and PNGs.

Prism 2 always places the graphic in the upper left corner of the custom screen, so if you have a small graphic, you may want to edit it and make it larger so that the graphic appears more centered on the screen resolution you are currently using.



To edit the graphic, *click* the **<Edit Bitmap>** button to launch the Windows<sup>®</sup> Paint program or use your own graphics program and then reload the graphic when you are finished.

The sample screen that follows shows a bitmap in the background with three data fields, three text fields, and one Jump button **<First Floor>** placed so that you can jump back to the custom screen that you originated from.



## Main Screen Image Hot Spot Selection

To immediately access different job sites or custom screens, an Easy Access Hot Spot can be created for each job-site on Prism 2's *Main Screen* image.

You can associate a custom screen with a job-site in the *Job Sites Window's* **Custom Screen** field and then you can create a link or hot spot on the *Prism 2 Main Screen* to automatically access that job-site's custom screen.

From the *Prism 2 Main Screen*, *right-click* anywhere inside the main screen area. In our example, we have a map of Kansas City as our Main Screen Image.



The message, "Drag an Area on the Graphic to create a HOT SPOT Selection Window" will appear in red in the *Lower Toolbar*.



To select the whole image, *position* the mouse in the upper left corner of the image, *hold* the left mouse button down, and *drag* the selection box to the lower right corner. In our example, we will select a small area surrounding the star that indicates a job-site location on the map.



As you can see, the dashed lines create a border around the star, making this the only area on the map currently selected as the Easy Access Hot Spot. Once you release the left mouse button, the *Hot Spot Job Selection Window* will appear.

#### Hot Spots and Adding a Temperature Range



*Click* on the job-site you wish to be associated with this hot spot. As soon as you click the job-site, the window will close.

Multiple Hot Spots can be created on the Main Screen Image, and each hot spot can be associated with any defined job-site listed in the *Hot Spot Job Selection Window*.

In the future, all you need to do to access your job-site is to *click* where you placed its hot spot on the Main Screen Image.

To clear a Hot Spot associated with a job-site, open the *Job Sites Window* for that job-site and *click* the **<Clear>** button in the **Hot Spots for Main Screen Picture** field.

Hot Spots fr	om Main Scr	een Picture	Clear
X1 3945	Y1 3285	X2 5805 Y2	4785

#### Adding a Temperature Range



You can place a floorplan on the custom screen and designate areas that change colors based on temperature, pressures, etc. to indicate an area is in range or above or below the normal range.

The Range/Edit button will open the following window to allow you to edit the range of values that indicate which color should be displayed.

Temperature Range Color Selection
This Data Field is Enabled for Color Change
The surrounding background color changes to
The surrounding background color changes to
The surrounding background color changes to
NOTE: This feature is useful for floorplans when you want temperature or other similar functions.

The selected data field, in this case the Common Area, will turn the space red if it gets too warm.

The space will turn green if it is between the limits, and it will turn blue if it gets too cool.



Note: The must make the separate rooms with a contrasting color to the background, in this case a light gray line was used in the doorways to limit the colorization due to values out of range.

## **APPENDIX A - SCREEN EXAMPLES**

## **Status and Setpoint Screen Examples**

#### Zone Controller Status Screen:



#### VCCX2 Controller Status Screen:



#### Zone Controller Temperature Setpoints Screen:

Temperatu	re Setpoints
85°	Occupied Cooling Setpoint
82°	Occupied Heating Setpoint
30°	Unoccupied Cooling Setpoint Setup
-10°	Unoccupied Heating Setpoint Setback
0°	Main AHU Heating Call Setpoint

#### Zone Controller Alarm Status and Configuration Screen:



#### VCCX2 Controller Temperature Setpoints:

Unit on Lo	op 1 Address 1 VCC-X2 Contro	de			Unit E
mperatu	res				
75.01	Cooling Mode Enable Setpoint	SATCO	ooling		
70.0*	Heating Mode Enable Setpoint	75.0	High Reset Source	55.0°	SAT Setpoint or Low SAT Limit for Reset
75.0*	Hood On MUA Cooling Setpoint	70.0	Low Reset Source	\$5.0*	SAT High Reset Limit
70.0*	Hood On MUA Heating Setpoint	5.0*	Cool Staging Window	50.0*	Mechanical Cooling OAT Lockout
30.0"	Unoccupied Cooling Offset	10.0*	Mod Cooling Window	40.0*	Low Temp Cutoff
30.0"	Unoccupied Heating Offset				
0.0*	Load Shedding Offset	SATH	ating		
30.0*	Control Mode High Alarm Offset	75.0	High Reset Source	120.0*	SAT Selpoint or Low SAT Limit for Reset
30.0'	Control Mode Low Alarm Offset	70,0	Low Reset Source	120.0*	SAT High Reset Limit
1.01	Hade Columbus Das das d	5.0*	Heat Staging Window	90.0*	Heating OAT Lockout
1.0*	Mode Selecton Jeadand	10.0*	Mod Heating Window	150.0*	High Temp Cutoff
55.0*	Economizer Enable Setpoint			0%	HW Valve Protection Position
10.0*	Economizer Proportional Window	0.44	Harrison Fride Others Filler	70.0*	Warm-Up / Cool-Down Setpoint
30.0*	Pre-Heat Setpoint	0.0-	maximum ande Offset Effect	100.01	Warm Un Gunnhy Ale Categorie
30.0*	Low Ambient Setpoint	Preheater		100.0	mensop suppy All setpont
45.0*	Coll Setpoint High Reset Limit	40.0*	Cool Mode Leaving Air Setsoint	\$5.0*	Cool-Down Supply Air Setpoint
40.0*	Coll Setpoint Low Reset Limit	60.0*	Heat Hode Leaving Air Reloaid	MUA D	ehumidification
55.01	Heat Wheel Defrost Temperature	20.0	-	55.0*	Outdoor Air Dewpoint Setpoint
and/10*	inder mitten wender remperature	50,0*	Vent Mode Leaving Air Setpoint	Mator	Rida Economizer
35.0*	Heat Pump DAT Lockout			vvdter c	side Economizer

#### VCCX2 Controller Alarm Status and Configuration Screen:

Staphy Return       GE       Recharaci Locing Latin       GE       RgS Staphy Teny Alive       GE       Comproxed Russian (Comproxed Russ	Stephy An Sensor     ECE     Richards Cassing Same     ECE     Righ Spaph (resp Jales)     ECE     Compresent Robert PL     ECE     ECE <th>ET.</th> <th>Calegory Sensor Failure</th> <th>Enacted</th> <th>Category Mechanical Failure</th> <th>Enabled</th> <th>Category Failure Modes</th> <th>Enabled</th> <th>Category Excension Boards</th> <th>D</th> <th>Category Compressor Alam</th>	ET.	Calegory Sensor Failure	Enacted	Category Mechanical Failure	Enabled	Category Failure Modes	Enabled	Category Excension Boards	D	Category Compressor Alam
Element         Element <t< td=""><td>Ext. Rates 2 Senset     Ext. Reduction for the function of the funct</td><td>-</td><td>Supply Air Sensor</td><td>-</td><td>Wechanical Cooling Failure</td><td>-</td><td>High Sapply Temp Alarm</td><td>-</td><td>Compressor Module #1</td><td>-</td><td>Compressor Modul</td></t<>	Ext. Rates 2 Senset     Ext. Reduction for the function of the funct	-	Supply Air Sensor	-	Wechanical Cooling Failure	-	High Sapply Temp Alarm	-	Compressor Module #1	-	Compressor Modul
Geo Oxford JJ Sames     Geo Fan Pending Halam     Geo High Classifier Galam     Geo High Classifier Galam     Geo High Classifier Galam     Geo Clas	Circle Oxford 25 Bases     Circle Parket (Section 24 Bases)     Circle Parket (	-	Roturn Air Sensor	-	Rechanical Iterating Failure	-	Low Supply Temp Alarm	100	Compressor Module #2		Compressor Hodal
State         State <th< td=""><td>Non-State         Non-State         <t< td=""><td>-</td><td>Outdoor Air Sensor</td><td>-</td><td>Fan Proving Fallers</td><td>-</td><td>High Control Tomp Failure</td><td>1000</td><td>Compressor Module #3</td><td>-</td><td>Compressor Module</td></t<></td></th<>	Non-State         Non-State <t< td=""><td>-</td><td>Outdoor Air Sensor</td><td>-</td><td>Fan Proving Fallers</td><td>-</td><td>High Control Tomp Failure</td><td>1000</td><td>Compressor Module #3</td><td>-</td><td>Compressor Module</td></t<>	-	Outdoor Air Sensor	-	Fan Proving Fallers	-	High Control Tomp Failure	1000	Compressor Module #3	-	Compressor Module
Edit Conff Mindel Somer     Edit Company Stratet     En Pachanes Mann     En Pachanes Mann       Edit Mindel Somer     Edit Somer Somer     Edit Somer Somer     Edit Somer Somer       Edit Mindel Somer     Edit Somer S	Construction         Company Construct	NEARINE	Space Seecor	-	Dirty Filter Alarm	-	Low Control Temp Failure	1000	Compressor Module #4	-	Compressor Bodal
Biolif Horman Kanon         Bioly Research Causalel         Samp Samp Samp Samp Samp Samp Samp Samp	Control Processor Generation         Control Processor Generation <th< td=""><td>-</td><td>Carbon Disaide Sessor</td><td>-</td><td>Emergency Contact</td><td>100</td><td>Pre-Heater Alarm</td><td>1000</td><td>Pre-Heater Module</td><td></td><td></td></th<>	-	Carbon Disaide Sessor	-	Emergency Contact	100	Pre-Heater Alarm	1000	Pre-Heater Module		
Control Delaw Server         Encontrops Revealues Utility         CONTROL Delaw Server         EVENT Server           Control Delaw Server         EVENT Server Server         EVENT Server Server         EVENT Server Server         EVENT Server Server           Control Delaw Server         EVENT Server Server         EVENT Server Server         EVENT Server Server         EVENT Server Server           Event Server Server         EVENT Server Server Server         EVENT Server Server Server         EVENT Server Se	Cline         Cline <th< td=""><td>100</td><td>Rollef Pressure Sensor</td><td>1000</td><td>Rolay Runtime Encoded</td><td>-</td><td>Samp Drain</td><td>AL ADDR</td><td>MICR X Module</td><td></td><td></td></th<>	100	Rollef Pressure Sensor	1000	Rolay Runtime Encoded	-	Samp Drain	AL ADDR	MICR X Module		
Control         Control <t< td=""><td>Chalant Alfflow Sensor     CAL     This REConstitute Alarm W (Ar Sensor Falsure)     CAL     Singley Alfflow Sensor     CAL     Trille REConstitute Alarm W     (Ar Constitute Alarm W     (Ar ConstituteAlarm W     (Ar ConstituteAlarm</td><td>-</td><td>Outdoor Aliflow Sensor</td><td>-</td><td>Economizer Feedback Missing</td><td></td><td></td><td>-</td><td>MODGAS X Blodule</td><td></td><td></td></t<>	Chalant Alfflow Sensor     CAL     This REConstitute Alarm W (Ar Sensor Falsure)     CAL     Singley Alfflow Sensor     CAL     Trille REConstitute Alarm W     (Ar Constitute Alarm W     (Ar ConstituteAlarm W     (Ar ConstituteAlarm	-	Outdoor Aliflow Sensor	-	Economizer Feedback Missing			-	MODGAS X Blodule		
Log Wy Alders Gener     The Telesconsing Allers Tr. (See Consuming Mine & Hand)     Thinky Cysteles Rodels	Supply Afflow Sensor III and a Second III and A Concerning Alarm VF (Not Economizing When & Should )	08	Exheent Airflow Sensor	100	Title 24 Economizer Alarm 'W'	[ Air Temp	exature Sensor Enilume )	1000	EMI Exposision Module		
Control Autors Summer     Control		98	Supply Airliow Sensor	- 100	Title 34 Econominer Alarm TF	[ Not Econ	omizing Wilson it Should )	1000	17 Relay Expansion Module		
Come Hamidily Reading Title 24 Economics Alarm V. (Damper Not Modulating)	Come Robust Al-Boar Sensor Title 24 Economizer Alarm C* [ Economizer When it Should Not ]	0.00	Reters Airflow Sensor	1000	Title 24 Economizer Alarm TC	Leonani	zer When it Should Not ]				
Table 24 Economican Alizon 121 - E Fannan Chattana 1	Come Experie Remeting Reading Tide 24 Economicer Alarm 17 ( Damper Hot Modulating )	- 10	Space Manifoldy Reading	1000	Tidu 24 Economizer Alarm TF	[ Damper	Not Modulating ]				
	Title 24 Economiser Alarm 1* (Excos Outdoor Air Failure )			and the second	Title 24 Economiser Alarm T	(Excess O	lutdoor Air Failure )				

#### **Status and Setpoint Screen Examples**

#### VCCX2 Controller Staging Delays and Timeouts Setpoints:

1 Min	Cooling Stage Down	1 Min	Heating Stage Down
3 Min	Cooling Stage Up	3 Min	Heating Stage Up
S Min	Cooling Min Run Time	S Min	Ileating Min Run Time
3 Min	Cooling Min Off Time	1 Min	Heating Min Off Time
30 Sec	Mod Cooling Time Period	30 Sec	Mod Heating Time Period
10 Sec	Economizer Control Rate	3 Min	Aux Heat Delay
5 Min	Heat / Cool Changeover Delay Period		
		30 Sec	Fan Running Purge Mode Delay
15 Min	Mechanical Fail Timeout	-1 Scc	Fan Starting Delay
30 Sec	SAT Setpoint Reset Interval Rate	60 Min	WarmUp Timeout

#### VCCX2 Controller Miscellaneous Setpoints:

liscellaneou	\$				
0	Controlling Week Schedule	10.0 vdc	Max Fan Vollage	Chilled W	Vater Valve is 0-10vdc (Default 2-10vdc)
2.0 Hr	Push-Button Override Duration	0.0 vdc	Min Fan Voltage		
15 Min	Trend Rate	10.0 vdc	Max Economizer Voltage		
50%	Indoor Humidity Lo Reset Limit	2.0 vde	Min Economizer Voltage	Evap Conder	nser Settings
60%	Indoor Humidity Hi Reset Limit	10.0 vdc	Max Mod Heating Voltage	8	Has Evap Condenser Control
67%	Max RH for Failure Detection	0.0 vdc	Min Mod Heating Voltage	-0.1*	Evap / Modulating Condenser Low Ambient
0	Single Zone VAV Integral	10.0 vdc	Max Exhaust Fan Vollage	-0.1*	Sump Heater Enable Temperature
0	Daylight Savings Start Day	0.0 vdc	Min Exhaust Fan Votage	-0.1*	Sump Drain Enable Temperature
0	Daylight Savings Ending Day			1 PSI	Evap Head Pressure Setpoint Deadband
0 Hrs	Generate a Warning if a Relay Run	Time Exceeds th	is Amount of Time	DMQ Superh	neat / Copeland VFD Operating Setup
Refriger	ation Modules			15.00	Superheat Setpoint
Air to Air He	eat Pumps and Standard Units			I Poster labo	0.00
315 PSI	Cooling Mode Head Pressure	15*	Superheal Setpoint	0	Compressor Model Number
400 PSI	Reheat Mode Head Pressure	1196	Safety Stage Off Position	( Standard Jo	bs Only 3
Water Sour	rce Heat Pumps	15 Mm	Safety State Off Period	Manually Set	Compressor Model
235 PSI	Cooling Mode Head Pressure				
350 PSI	Reheat Mode Head Pressure	-1%	Min Water Valve Position		Update Copeland

#### VCCX2 Controller Relay Configurations:



#### Configuration Page #1 Installed Sensors Temperature Scaling Space Sensor Options Binary Inputs Ø Emergency Shutdown Contact Ø Fan Proving Sensor No Space Air Sensor Has Analog Space Temp Sensor Fahrenheit (Default) Celsius C Has Digital Space Temp & Humidity Sensor Installed Expansion Boards Dity Filter Sensor Reads Space Temp Global Broadcast Remote Sensor Board Address Has BACnet Space Temp & Humidity Refrigeration Module #1 Indoor Air Quality Sensor Refrigeration Module #2 Indoor Air Quality Sensor @ No Carbon Dioxide Sensor @ Has Digital Carbon Dioxide Sensor @ Reads Carbon Dioxide Broadcast @ Reads Carbon Dioxide Analog Sensor @ Reads Carbon Dioxide from BACnet Refrigeration Module #3 Read Space Humidity Global Broadcast Refrigeration Modele 93 Refrigeration Modele 94 Reded Carbon Disorde Prandomst Reded Carbon Disorde Analog 94 Reded Carbon Disorde Profese Reded Carbon Disorde Analog 94 Reded Carbon Disorde Analog 94 Reded Carbon Disorde Profese Reded Carbon Disorde Profesee Reded Carbon Disorde Profesee Reded Carbon Profesee Reded Carbon Profesee Reded C Return Sensor Options No Return Air Sense Has Analog Return Air Sensor Has Digital Return Air & Humidity Sensor Outdoor Sensor Options 12 Relay Expansion Board No Outdoor Air Senso Monitor Return Airflow Sensor Has Analog Outdoor Air Se Refrigeration Modules are Dual Digital Control Outdoor Airflow C Has Dioital Outdoor Air & Humidity Sensor Refrigeration Modules are Single Digital C Reads Outdoor Air Global Broadcast **Airflow Station Model** Has DMQ Superheat Controller Installed 💿 Ebtron Sensors 💿 Paragon Sensors C Reads Outdoor Air from BACnet Relief Pressure Sensor Dehumidification Control / Coil Reset Cooling Type No Relief Pressure Sensor Refrigeration Module Cooling Control Staged Cooling Only (Must Configure Relayis) Space Humidity Has Analog Relief Pressure Sensor C Return Air Humidity C Modulating Cooling Only (Chilled Water Valve) Reads Relief Pressure Global Broadcast NOTE: MUA applications use OA Dewpoint for Dehumidification Control Reads Relief Pressure from BACnet

#### VCCX2 Controller Configuration Setpoints - Page 2:

HVAC Mode Enable Source	Heat Pump Auxiliary Heat	Economizer	
Supply Air Cooling     Supply Air Tempering     Outdoor Air Temperature     Return Air Temperature     Space Temperature	None     Staped (Must Configure Relay/s)     Modulating Heat (SCR or Hot Water)     Modulating Gas Heat (MODGAS-X)     Heat Source #2	No Economizer Control     Standard Economizer Control     Economizer Control w / IAG Override	
C Space Temperature w/High OA CFM	C Modulating Heat Staged Heat	Allow Economizer during Unoccupied Mode	
V HVAC Mode Set by Binary Inputs	Re-Heat Type		
Pecet Source	O No Re-Heat	Economizer Enable	
No Reset     Space Temperature     Outdoor Air Temperature	On/Off HGR Relay (Must Configure Rela Modulating HGR Use Unit Heat for Re-Heat Heat Source #1 Heat Source #2	Outdoor Air Drybulb     Outdoor Air Wetbulb     Outdoor Air Wetbulb     Outdoor Air Dewpoint	
C Return Air Temperature	Modulating HGR Unit Heat	Morning Warm-Up	
Fan VFD Signal Percentage     Remote Voltage Signal	On/Off HGR Unit Heat     Modulating HGR Aux Heat	No Morning Warm-up     Stand Alone Unit Warm-up Control	
Heat Type	De-Humidification Control	Warm-up w/Broadcast to Fixed Airflow	
🕐 No Heating	No Humidity Control	O warm-up wieroadcast to waternamiter row	
<ul> <li>Staged Heat Only (Must Configure Relayis)</li> <li>Modulating Heat Only (SCR or Hot Water)</li> <li>Mod Gas Heat (MODGAS-X)</li> </ul>	In Occupied Vent Mode Only In Both Occupied/Unoccupied Vent Mode In All Modes While Occupied In All Modes While Occupied In All Modes While Occupied In All Modes In All Modes While Occupied In All Modes In All Mo	No Morning Cool-Down     No Morning Cool-Down     Stand Alone Unit Cool-Down Control	
Heat Source #1 Heat Source #2  Modulating Heat Staged Heat	C in As would in both Occupied / Unoccupied	Cool-Down w/Broadcast to Fixed Airflow	

#### VCCX2 Controller Configuration Setpoints - Page 3:

Init on Loop 1 Address 1 VCC-X2 Controller		
Configuration Page #3		
Heat Pump Configuration	WHP Glycol Content	Relief Pressure Control
Not a Head Pump     Air to air Head Pump     Air to air Head Pump     Br all to Heading. Activate Valve for Cooling     Pall to Cooling - Activate Valve for Instance     Water Source Head Pump     Fall to Instance - Activate Valve for Instance     Operates with a Water State Condenser     Operates with a Water State Condenser     Operates with a Water State Condenser     Clobal Broadcasts     Provident Online VAW Boxes	ON 32.0" Freezing Point     O 59, 20.1" Freezing Point     O 59, 20.1" Freezing Point     10% 26.1" Freezing Point     20% 10.2" Freezing Point     20% 10.2" Freezing Point     30% 2.4" Freezing Point     30% 2.4" Freezing Point     0.40% -4.0" Freezing Point	to Relet Pressure Control     Dreet Acting Doubtin' fan Control     Dreet Acting Doubting Control     Dreet Acting Moduleing Control     Reverse Acting Supply Fan VPD Control     Dreet Static Control     Static Pressure Control     To Static Control     Dis Static Control
Broadcast Building Pressure Broadcast Outdoor Air Temperature Broadcast Outdoor Air Humidity		Main Fan Operation Option
Broadcast Space Temperature     Broadcast Space Humidby     Broadcast Carbon Dioxide		Main Fan Cycles with Heating and Cooling
Broadcast Chiler Request Command		

#### VCCX2 Controller Configuration Setpoints - Page 1:

## APPENDIX B - DEMOMODE

#### **DEMOMODE Setup and Operation**

# Downloaded DEMOMODE Setup and Operation

DEMOMODE is a set of files that allow you to view samples of controller status and setpoint screens without having to connect to a live system. You may want to be able to demo the Prism 2 program to a customer, for example.

The DEMOMODE files are available for download from the AAON website under Software. DEMOMODE is individualized for each of our control systems.

**Step 1:** When you download the DEMOMODE files, make sure you copy the files into the Configuration subfolder in your main Prism 2 directory.

**Step 2:** To run DEMOMODE, simply *select* an empty jobsite location in your Prism 2's *Job Sites Window* and *type* in DEMOMODE just as it is - one word, all caps - in the **Selected Location** field and *press* **<ENTER>**.

Exit Log Times Log Units				
Job-Site Selection		Selected Location	Job-Site Lis	t #
001 - Emerald City	^	DEMOMODE	4	Delete Job-Site
02 - Rock Cate 03 - Tumble Weed Cate		Serial Port (Not Required for TCP/P Open	rations )	
004 -		No Port Selected	~	
005 - 006 -		Phone Number (For Remote Site Moder	Number)	
107 -				
008 -				
000 -		( CommLink Pas	scode)	

The DEMOMODE files will automatically configure one of each type of controller included for viewing. No communications will occur, but all status and setpoint screens related to that unit will be available for viewing.

**Step 3**: *Exit* the *Job Sites Window* and *click* on DEMOMODE in the *Site Selection Window* of the *Prism 2 Main Screen*. Once you do this, the controllers available for viewing will appear in the *Unit Selection Window*.

**NOTE:** Unless you are using your computer strictly for DEMOMODE, you should not use the first job-site location for DEMOMODE unless you don't mind the inconvenience of having to manually select a different job-site location each time you start Prism 2.

	Site Selection	
001 - 002 - 003 -	Emerald City Rock Cafe Tumble Weed Cafe	~
004 -	DEMOMODE	
005 -		×
	Node Selection	
001 -	Main Site	~
002 -		
003 -		
004 -		$\sim$
	Loop Selection	
001 -	DEMO LOOP	~
002 -		
003 -		
004 -		
006 -		
007 -		_
008 -		×

# Custom DEMOMODE Setup and Operation

The following is the process for creating your own demo screens for any type of controller. The screens will automatically be added to the DEMOMODE files.

**Step 1:** Login with the Administrator or Level 4 username and passcode. Connect Prism 2 to the desired type of controller you need a demo screen for. *Select* **<Communications>**, **<Monitor Parablocks>**. The example below shows connection to a VCC-X Controller screen ID 187 as shown in the red circle under Para Block #1 Index #1.

**Step 2:** *Select* the **<Save to File>** menu as shown in the red circle. There is now a demo screen for that unit controller.



**Step 3**: To run DEMOMODE, simply *select* an empty jobsite location in your Prism 2's *Job Sites Window* and *type* in DEMOMODE, just as it is - one word, all caps - in the **Selected Location** field and *press* **<ENTER>**.

**Step 4**: *Exit* the *Job Sites Window* and *click* on DEMOMODE in the *Site Selection Window* of the *Prism 2 Main Screen*. Once you do this, the controller demo screen will appear in the *Unit Selection Window*.

## Setting Up Alarm Polling for the System Manager TS

## Setting Up Alarm Polling for the System Manager TS

**NOTE:** This section applies to System Manager Touch Screen Alarm Polling only. For Prism 2 Alarm Polling on **page 27**.

Using Prism 2 to set up Alarm Polling for the System Manager TS, you must have a CommLink and MiniLink Polling Device installed on your system. The following procedure must be done for the MiniLink Polling Device on each loop.



In the *Loop Selection Window* of the *Prism* 2 *Main Screen, select* the loop where your MiniLink Polling Device is located. Then, in the *Unit Selection Window scroll down* to Address 60 - MiniLink PD and click once on your selection.

The <i>Polling Device</i>	<i>Window</i> will appear.



*Click* **<Setpoints>** at the top of the screen. The *Polling Device Setpoints Window* will appear.



*Click* the **<Alarm Polling>** option at the top far right of the *Polling Device Setpoints Window*. The *Alarm / Override Polling Window* will appear.

cted Unit on Loop 1 Address 60	MinLink PD		
arm / Override Polling			
A Checkmark	Indicates the	Unit Will Be Polled for Alarms a	nd Push-Button Overrides
#01: -VAV/ Zone Control	#16: -	F #31: -	F #46: -
7 #02: -VAV/ Zone Control	F #17:-	<b>F</b> #32: -	F #47: -
#03: -VAV Box Controller	F #18: -	<b>#33:</b> -	#48: -
#04: -	F #19: -	F #34: -	F #49: -
#05: -GPC-X	F #20: -	T #35: -	<b>#</b> 50: -
#06: -	F #21: -	T #36: -	F #51: -
#07: -	F #22: -	F #37: -	F #52: -
#08: -MUA II	F #23: -	F #30: -	F (#53: -
<b>#</b> 09: -	F #24: -	<b>#39:</b> -	F (#54: -
#10: -	#25: -	F #40: -	#55: -
#11:-	F #26: -	#41:-	F #56: -
#12: -	F #27: -	F #42: -	F #57: -
#13: -	F #28: -	F #43: -	#58: -VCM Air Handler
#14:-	F #29: -	F #44: -	#59: -VCMX Air Handler
#15: -YAY/CAY	F #30: -	F #45: -	#60: -MinLink PD

In the *Alarm / Override Polling Window, click* the box to the left of each controller to choose alarm polling and push-button overrides for that controller. A check mark in the box designates alarm polling/push-button override.

## **APPENDIX C - SYSTEM MANAGER TS ALARM POLLING**

## Updating Controllers, E-BUS Modules, and Other Device(s) Software

## Updating Internal Software with Prism 2 Version 4.5.0 and higher

You can use Prism 2 version 4.5.0 and higher to update the internal software of the following Unit Controllers, E-BUS Modules, and Devices:

- VCCX2 Controller
- VCC-X Controller
- VCB-X Controller
- PT-Link II BACnet3®
- PT-Link II BACnet4<sup>®</sup>
- PT-Link II LON-3®
- PT-Link II N2-3<sup>®</sup>
- PT-Link II N2-4®
- Modular Service Tool SD
- Modular System Manager SD
- MiniLink PD 5
- MODGAS-X
- MODGAS-X 10:1
- MODGAS-XWR
- MODGAS-XWR-1
- MGHRV-X
- PREHEAT-X
- PREHEAT-X-EXT
- RSMD
- RSMSD
- RSMV
- RSMV-HP

You can find complete instructions and the most recent software for updating internal software with Prism 2 on the AAON Controls Support website—www.aaon.com/controlstechsupport

## Α

Access Level......6, 7 ACK Button.....27 Acknowledging Alarms......27 Addresses 59 & 60.....19 Node IP.....10 Alarm Acknowledging......27 Date and Time.....27 Display.....27 E-Mail Notification.....12 Indicator.....27 Log.....27 Maintenance.....27 Polling......12, 26, 27 Printing.....27 Status.....26 Alarm Button......6, 7, 26 Controller Status Screen......22 Main Screen.....27 Alarm Polling......41 Alarm Polling Enabled......11, 26, 27 Align Bottoms Button......32 Align Left Button.....32 Align Right Button.....32 Align Tops Button.....32 Analog Override......25 Auto-Logging.....14, 28 Auto-Log Retrieve Times Window......14 Auto Re-Start After Power Failure.....16 Auto Scheduling......22 Auto-Zone Setpoint Verification ......11 Auxiliary CommLink......12 Available Unit Types Window......25

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PRISM 2 TECHNICAL GUIDE			
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Rev. 01U, January 21, 2021	Added note for Level 9 User Administrative Access on page 8.		
Rev. 01U, January 21, 2021	Replaced the instructions for the Prism 2 CD-ROM with instructions for the Prism 2 Flash Drive on page 5.		

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