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ENVIROMUX[®] Series

E-MNG-SH

Enterprise Environment Monitoring System Self-Hosted Management Software

Server Room	Alerts							Device Status		
	Sensor	Sensor	Sensor	Sensor	Device	Last		IP Address+	Device Name\$	Status≑
	Name+	Value\$	Status\$	Туре≎	Name\$	Updated\$		10.0.1.16	Furnace Room E-2D	Normal
	E-5D E04 Port 2 ACLM-	0.0 Hz	Alarm	External Sensors	E-5D E04 DDNS	4 sec. ago)	147.0.27.197	E-16D Server Rack Monitor	Normal
	Frequency E-5D E04	5.6 V	Alarm	External	Test Unit E-5D E04	4 sec. ago	5	147.0.27.207	E-2D Lab Room Environment Monitor	Normal
	Port 2 ACLM- Voltage			Sensors	DDNS Test Unit			147.0.27.208	E-5D Server Rack Monitor	Normal
	E-5DEL E07	Lights	Alarm	Digital	E-SDEL-1	1 sec. ago		147.0.27.212	E-5D E04 DDNS Test Unit	Alert
	Light	On	Alditti	Inputs	(E07)	i sec. ayu		147.0.27.218	E-2D P05	Normal
	Detector (2)							192.168.1.100	E-16D 24V IPMI Rack	Normal
				Previous	1 Next			192.168.3.100	E-16DEL-1 (Master)	Normal
Server Room Temperature	Server Rack & Lab	e						192.168.3.101	E-16D S1	Normal
								192.168.3.200	E-16D P02	Normal
81.5	Sensor Name			Sensor Value\$	Sensor Ty	•	Updated\$	192.168.3.213	Oper8 Test Unit	Normal
64.4 ^{81.5} 98.6	Computer Lab			72.8 °F	External S		3 sec. ago	192.168.3.217	E-5D-48V	Normal
47.3 115.7	Computer Lab			27.4 %	External S		3 sec. ago	192.168.3.221	E-2DB P02	Normal
	Server Rack Te			77.4 °F	External S		3 sec. ago	192.168.3.222	E-2D E12	Normal
- 30.2 132.8	Server Rack Hu			21.2 %	External S	ensors	3 sec. ago	192.168.3.223	E-2DB E11 (RevF)	Normal
13.1 149.9	Equipment Lab			77.7 °F	External S		3 sec. ago	192.168.3.225	E-5D E02	Normal
°F	Equipment Lab	1 Humidity		21.2 %	External S	ensors	3 sec. ago	192.168.3.227	E-2D P04	Normal
-4.0 167.0	Equipment Lab	2 Temperatu	ure	79.6 °F	External S	ensors	3 sec. ago	192.168.3.80	E-16D E100	Normal
▼ 75.2	Equipment Lab	2 Humidity		22.1 %	External S	ensors	3 sec. ago	192.168.3.81	E-5DEL-1 (E07)	Alert
, 01L	Computer Lab Ten	nperature						192.168.3.82	E-2DB E08	Normal
	1 Hr 8 Hr 1 Da	y 1 Wk 1	Mo 6 Mo	2 Yr				192.168.3.83	E-5D E01	Normal
Server Rack Main Voltage				Te Om	puter Lab Te	🔵 Avg. Com	puter Lab Te	98.27.170.240	Remote E-5D	Normal
Server Rack Main Voltage 118.7 V Normal Last Updated: now	82.00 °F 80.00 °F 76.00 °F 76.00 °F 72.00 °F 72.00 °F 70.00 °F 66.00 °F 66.00 °F	Mar 11 5		Mar 11 1033 PM	Mar 12		Mar 12 9:40 AM			

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CHANGES

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VERSION

Release Version 0.9.4.7.

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INTRODUCTION

E-MNG-SH is a self-hosted Software program that provides an easy-to-use, unified interface for monitoring and configuring up to 3,000 E-16D, E-5D, and E-2D monitoring systems (Devices) and all connected sensors (internal, external, and digital input) and output relays via Ethernet. The Software is installed on a Windows-based server or computer (the Server) to actively poll all Devices for status information and alerts. Any computer, smartphone, or tablet with a web browser can be used to access the Software. All enabled users can be kept up to date on sensor statuses and be alerted instantly when a sensor goes out of range of a configurable threshold.

Features:

- Devices may be monitored individually or in a group
- Display values and status for individual sensors or list of sensors.
- Unlimited number of users can access the Software program at the same time.
 - o Users can configure their own Dashboards to display the data relevant to them and the window arrangement.
- Customize Dashboards to display Device status, sensor data, gauges, graphs, maps and IP camera snapshots.
- Any computer, smartphone, tablet with a web browser installed can be used to access the Software.
 - Access is operating system independent through the HTML5 user interface on the computer/smartphone/tablet's web browser.
 - o No clients or special apps to install.
- Self-hosted Software ideal for users in industries that require local Software management solutions for security or data privacy purposes.
- Plot the placement of E-LLDC-xx Liquid Location Detection Sensor Cables on floor plan maps to visually see the specific location of liquid presence when detected.

Software Requirements:

- Windows 7/8/10/11 32 or 64-bit, Windows Server 2008/2012/2016/2019/2022 32 or 64-bit.
- Requires firmware version 4.1 or later in E-xD Devices.

Note: We recommend the server/computer is protected by a firewall and anti- virus software if the server /computer is going to be accessed from the internet..

Server Roles and User Access:

One user is assigned as Super Admin to register the license and complete Software setup, plus has access to all Admin privileges.

Users with Admin access have privileges to add/delete E-xD Devices, edit sensors, set up Dashboards, acknowledge/dismiss alerts, simulate alerts, view logs, view sensor data, and monitor Dashboards. Admins can also add/edit/delete users (Administrators and Operators). Any number of users can be assigned as Admin.

Users with Operator access can acknowledge/dismiss alerts, view logs and sensor data, and monitor Dashboards. An unlimited number of users can be assigned as Operator.

Users with Read Only access can view alerts, logs, sensor data and monitor Dashboards. An unlimited number of users can be assigned as Read Only.

MATERIALS

Materials supplied with this package:

NTI E-MNG-SH ENVIROMUX Self-Hosted Management Software including:

- NTI ENVIROMUX-Management-Software-Installer_Vx.x.x.x_x64.exe or NTI ENVIROMUX-Management-Software-Installer_Vx.x.x.x_x86.exe (vx.x.x.x = the version number) The current version number is 0.9.1.1.
- Adobe pdf file of this manual

Note:

x86 is for 32 bit servers or computers which can only run 32 bit Windows OS and limits the maximum RAM size to 4GB.

x64 is for 64 bit servers or computers which run 64 bit Windows OS and has a much larger RAM size limit.

LIMITATIONS

- The Management Software:
 - Only Devices (E-xD) can be added with current version.
 - Managing Device sensors on cascaded Devices and IP sensors are not supported currently.
 - Any changes to Device configuration done locally will require a re-load on the E-MNG-SH Software
 - Cannot change, save or restore individual E-xD configurations from the E-MNG-SH Software
 - Internet Explorer does not work with the E-MNG-SH Software
 - E-MNG-SH does not support virtual machines at this time
- Multiple computers/smartphones/tablets can access the Management Software and monitor Devices at the same time
 with no ill effects.
- Requires the E-xD language to be set to English for this version.

DOWNLOAD

To get the installer, go to our website .

- If you wish to evaluate the software, click on "Request Server Software Evaluation" and fill out the registration form. We will send the files and you can install it as described under "Installation".
- To purchase the software, you can go to our website or contact an authorized representative or NTI sales associate directly at 330-562-7070. NTI will email you links to the software and a link to request a license activation key.

Self-Hosted Enterprise Environment Monitoring System Management Software

Monitor and configure up to 3,000 ENVIROMUX environment monitoring systems and all connected sensors. Access from anywhere using a web browser on a computer, smartphone, or tablet. No clients or special apps to install.

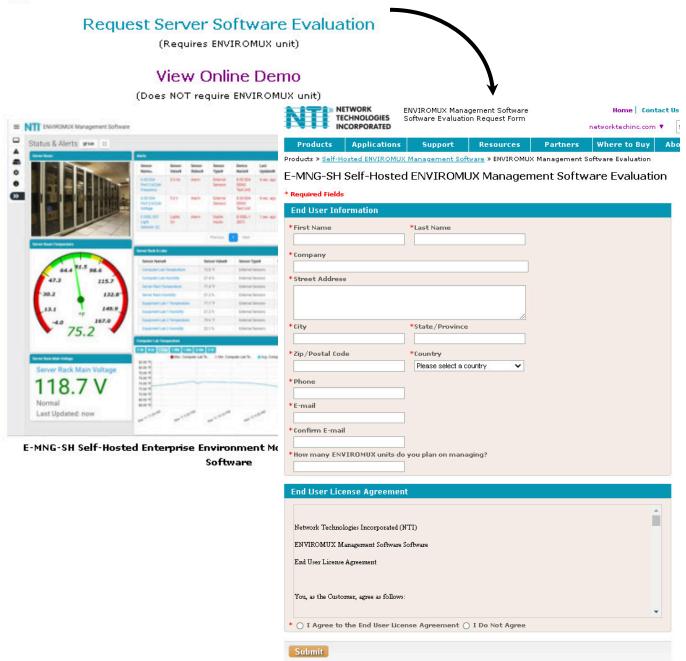


Figure 1- Registration Form

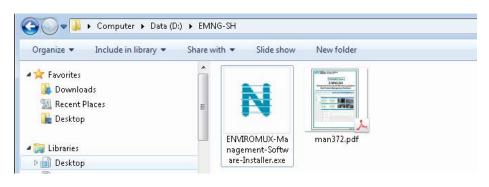
Whether you are evaluating the software, or purchasing it, you will receive an email with links for a download of the software. **NOTE: The download exe files can only be accessed and downloaded once.** Please be sure that you will be able to save the files to a local computer prior to using the links.

The email will also include the serial number for your copy of the software. Be sure to make note of it as you will need to refer to it when you request the license key or if you call for assistance with the software.

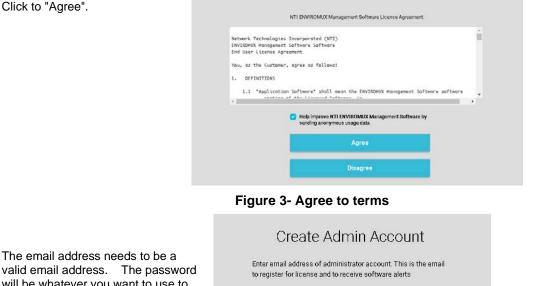
INSTALLATION

To install the Software on a Windows-based server or computer, double-click the appropriate version of ENVIROMUX-Management Software-Installer. (No need for Administrator privileges).

- For a 32 bit computer/server install ENVIROMUX-Management-Software-Installer_Vx.x.x. **x86**.exe.
- For a 64 bit computer/server install ENVIROMUX-Management-Software-Installer_Vx.x.x.x _x64.exe







Email Email Password Password Confirm Password Confirm Password

Figure 4- Create Admin login account

The email address needs to be a valid email address. The password will be whatever you want to use to access the E-MNG-SH Software. After entering that information, click "Set Admin".

You will be prompted for an license key. To request a license key, <u>contact NTI</u>. This key will be unique to this Windows user and installation of the management program. You will need the serial number for the software provided on the email that provided the software download. The license key will not activate additional installations of the program on other Servers. If you already have a license key enter the license key here and click "Activate License".

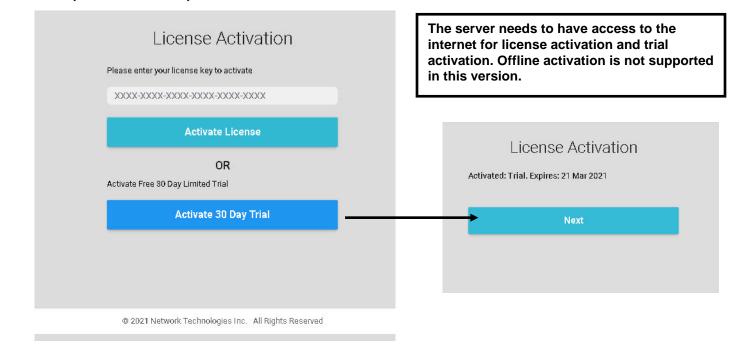


Figure 5- Activation screen

If you choose to just demo the Software at this time, click "Activate 30 Day Trial". You can activate the license later by going to the Settings -> Application Settings page. With a trial activation, the software will be fully functional for 30 days, after which you will need to activate the license to resume operation. None of your settings will be lost.

Monitor		Application Settings						Home	Application Set	lings
A Events		Application Settings			License					
Cevices		Language	English	~			Current License: Activated: E-MNG-			
Settings			Display language for server				Current License: Activated: E-MNG-	н		
Application Settings		Device Poll Rate	5000		Upgrade to new License	20000-20000-20000-20	2007-2007-2007			
Network Settings			Delay between poting of sensor data for each device in millisecond. Minimum: 1000			Enter License Key				
User Settings		Date Format	MMDD/YYYY	~						
			Date Format to show values in				Activate New License			
About	<u> </u>	Time Format	hh MM.SS TT	~						
	(**		Time formal to display values. HH: 24 hour format, hir. 12 hour format, TT AM/PM							
		System Log Roll Period	Hourty	~						
			System logs will be rolled every new period as set above							
		Number of System Logs to Store	168							
			Number of rolled system logs to keep on disk							
		System Log Level	DEBUG	~						
			System Log Level, Recommended: INFO							

Figure 6- Activate later

Once the program is installed, a teal "N" will appear on your desktop and a shortcut on the taskbar. A shortcut will also be added to the "Start Menu"-> All Programs list.



Note: This is a web-based software. The icon is used only for starting the software on a server. Management and monitoring of the software is done through the browser.

Note: Ensure that the server firewall allows TCP port access as set in the application settings (see page 7).

Any computer, smartphone, or tablet with a web browser installed can be used to access the E-MNG-SH software. Access is operating system independent through the HTML5 user interface on the computer/smartphone/tablet's web browser.

To access the E-MNG-SH, simply enter in the IP address or Server host name of the ENVIROMUX Management System into the URL bar on your browsing computer/smartphone/tablet. If your computer/smartphone/tablet has network access to the E-MNG-SH, you will be presented with the login screen. The server can be configured by anyone with access to it that has administrative privileges.

Users with only "Operator" privileges can assess the E-MNG-SH and view the monitored Devices, but they cannot change any settings. For more on privileges, see page 10.

The Software will open to two empty lists under the Home page. The Home page will display the IP addresses of the Devices being monitored and a list of any alerts associated with sensors being monitored on those Devices.

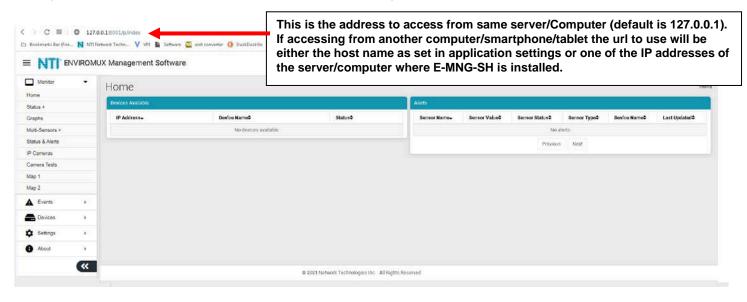


Figure 7- View of the Home screen

To configure the E-MNG-SH to manage your devices and sensors, go to the Settings pages. Under Settings you will find three submenus,

- Applications Settings
- Network Settings
- User Settings

Make sure all of the details for operating the E-MNG-SH are as desired.

Application Settings

Language	English	~
8 - Ch	Display language for server	
Device Poll Rate	5000	
	Delay between polling of sensor data for each device in millisecond. Minimum: 1000	
Date Format	MM/DD/YYYY	~
	Date Format to show values in	
Time Format	hh:MM:SS TT	~
	Time format to display values. HH: 24 hour format, hh: 12 hour format, TT: AM/PM	
System Log Roll Period	Hourly	~
	System logs will be rolled every new period as set above	
Number of System Logs to Store	168	
	Number of rolled system logs to keep on disk	
System Log Level	DEBUG	~
	System Log Level. Recommended: INFO	
Send Anonymous Usage Stats		
	Help NTI improve ENVIROMUX Management Software by sending anonymous usage reports	
Upload Crash Reports (Recommended)		
	Upload crash report to request NTI for fix (Restart Required)	
	Save	

Figure 8- Application Settings

Application Setting	Description
Language	Only English is available at this time
Device Poll Rate	Delay time between polling data for each sensor attached to each Device, measured in
	milliseconds (Min. is 1000)
Date Format	Format of how the date will be displayed in the Software- six to choose from
Time Format	Format of how the time will be displayed in the Software- four to choose from
System Log Roll Period	System Logs will be rolled as often as set here- Hourly, Daily, Weekly, Monthly, Quarterly or
	Yearly
Number of System Logs to	Number of system logs to store on disk- There is no limit.
Store	
System Log Level	Select the types of messages that will be logged in the system.log file on Software (see below)
Send Anonymous Usage	Place a checkmark if you approve of sending anonymous usage reports to NTI to help improve
Stats	this Software
Upload Crash Reports	Place a checkmark in the box to have your Software upload crash reports to NTI and to request a
	fix. We strongly recommend enabling upload of crash reports. If disabled, NTI will not be able to
	help with any fixes because of a possible Software crash

System Log Level

- CRITICAL only logs messages that cause Software to exit
- ERROR logs messages with Device, server communication, sensor or user errors including CRITICAL messages
- WARNING will log messages including possible issues with setup or communication including ERROR & CRITICAL
- INFO logs informative messages including WARNING, ERROR & CRITICAL
- FINE logs extra informative messages that logs Device communication including INFO, WARNING, ERROR & CRITICAL
- DEBUG logs all messages which may be too verbose for normal usage but helps with debugging any software issues, including FINE, INFO, WARNING, ERROR & CRITICAL

Don't forget to click "Save" once this is complete.

Network Settings						
Server Host Name	CPU276					
	Host name to use on all urls. This host name should be associated with atleast one of the IP Addresses of this server					
Enable Above Host Name						
	Restricts all access to use host name only. If host name is incorrect, you will not be able to access the server					
HTTP Port	80					
	HTTP port on which the software should listen to (Restart Required)					
SMTP Server	smtp.gmail.com					
	SMTP Server address or domain that you want to use to send emails					
Email From Address	user@gmail.com					
	SMTP email address that NTI ENVIROMUX Management Software should use to send emails					
SMTP Encryption Type	STARTTLS 🗸					
	Encyrption type to be used with above SMTP Server					
SMTP Server Port	587					
	SMTP Port to be used with above encryption setting for server. Usual port #:- None: 25, TLS: 465, STARTTLS: 587					
SMTP Server Requires Encryption						
	Check this box if SMTP server requires authentication to send email					
SMTP Username	user@gmail.com					
	SMTP authentication username					
SMTP Password						
	SMTP authentication password					
Confirm SMTP Password						
	Confirm above SMTP authentication password					
	Save					
	Send Test Email					

Figure 9- Network Settings

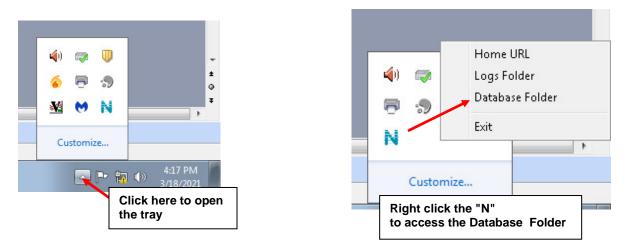
Network Setting	Description
Server Host Name	If you want to access the server with a specific domain name, please set that domain name here
	The DB browser can be used to recover from an incorrect host name. (See next page)
Enable Above Host Name	Enable the Host Name assigned to the Server- restricting access to the Server by using the Host
	Name only.
HTTP Port	Port on which the Server will be connected with . This is the default HTTP port. If you change
	this, you will need to add ": <port#>" to the end of the IP address. i.e. If you change it to 85,</port#>
	you will need to enter <ip address="">:85 in the URL bar to access the Server.</ip>
SMTP Server	Enter a valid SMTP server address
Email From Address	Enter email "From" address to be used by E-MNG-SH to send messages from
SMTP Encryption Type	Choose encryption type from dropdown menu: STARTTLS, TLS or None
SMTP Server Port	Enter port used by SMTP Server (default is 587)
SMTP Server Requires	Place a checkmark in here if the SMTP Server requires encryption to send messages
Encryption	
SMTP Username	Enter the SMTP Username for the E-MNG-SH-if encryption is checked
SMTP Password	Enter the SMTP Password for the E-MNG-SH- if encryption is checked
Confirm SMTP Password	Re-enter the SMTP Password for the E-MNG-SH

Don't forget to click "Save" once this is complete. You can test your settings by clicking "Send Test Email". An email will be sent to any configured users.

Server Host Name

If you want to access E-MNG-SH with a specific domain name, please set that host + domain name (also referred to as FQDN (Fully Qualified Domain Name)) here (for example "monitor.enviromux.com"). This FQDN should be associated with at least one of the IP Addresses of this server or computer. In the event the FQDN set is incorrect and access is restricted to this FQDN (as set in "Enable Above Host Name"), you would not be able to login to E-MNG-SH. In this case you can correct the FQDN by following the below procedure.

1. Access the server or computer where E-MNG-SH is installed. Open the database folder and locate the "settings.db" file. (You can right click on the E-MNG-SH icon (teal colored "N") in the system tray to access the database folder.)



- 2. Exit E-MNG-SH software now
- 3. Open "settings.db" with any SQLite editor like DB Browser or DBeaver
- 4. Set the desired FQDN in "HOST_NAME" column of "EMANAGER_SETTINGS" table
- 5. Save these changes and close the file. Restart E-MNG-SH now and you should be able to login with a correct host name.

User Settings

There is a limit of 1000 users that can be configured to access the E-MNG-SH. To add users, go to Settings -> User Settings . Enter the first and last name, email address and password for that user to use to access the E-MNG-SH.

Monitor +	User Settings						Home User Setting
Events +	Available Users					Add New User	
Devices >	Name	Email	Admin	Enabled	Edit		
Settings -	Admin	atinigo com	Yes	Yes	Edit	User First Name	First Name
pplication Settings							Enter first name
	TestUser	gymail.com	No	Yes	Edit Delete	User Last Name	LastName
letwork Settings							Enter last name
Jser Settings						Email	Empli
About +							Enter upera ernail addresa
«						Password	Password
	-						Enter users password
						Confirm Password	Confirm Paseword
							Confirm users password
							Add New User

Figure 10- User Settings for Adding Users

Once a user has been established, click on "Edit" in the "Available Users" window to bring up the Edit User page and add additional information. You can also, instead, click on "Delete' to remove the user altogether.

First decide what access level this user will have:

Super Admin- This user cannot be deleted and is the same user used in license registration and managing the E-MNG-SH. Admin - User has administrative privileges to make changes to the configuration of the E-MNG-SH Operator- User only has access to the information provided on the E-MNG-SH. No changes can be made. Read Only- User can see everything the E-MNG-SH has to offer, but cannot change any settings or add anything.

Note: Only Admin users can edit other user's passwords, the Operator users can edit their own password only

		Reset Password	
User First Name	Test	Enter New Password	New Password
	Enter first name		Enter new password to set
User Last Name	Last Name	Confirm New Password	Confirm Password
	Enter last name		Confirm new password for this user
Email	user@gmail.com		
	Enter users email address		Set New Password
Access Level	Operator	 Image: A set of the set of the	
User Enabled Sound Alerts	Enable this user to login	Rea	ad Only
Email Alerts	C	Re	ad Only
Title	Job Title Enter users job title		erator min
	Department		per Admin
Department	Enter users department		
Department Company	Enter users department Company Enter users company name		

Figure 11- Edit user settings

Be sure to check the "User Enable" block to give the listed user access to the E-MNG-SH.

Place a checkmark in "Sound Alerts" to enable the user to hear audible warnings about an alert being sensed while the user is monitoring a Dashboard.

Place a checkmark in "Enable Alerts" so the user can receive emails about sensor alerts or reports generated (page 29).

The Title, Department and Company are optional information that can be provided for reference.

On this page the user's password can also be changed. After entering, click "Set New Password".

When finished, be sure to click "Save User".

DEVICES

Under Devices, in the menu, there are four options to select.

- Device Settings
- Sensor Settings
- Add or Remove Device
- Maps

The Device Settings page displays all the Devices you have configured to be monitored and the groups you have established for the management of those Devices. You can click on the IP Address of each to view status and adjust settings of each sensor in each device.

levice Tree	Devices Available		
A Home	IP Address ↓	Device Name≑	Status≑
📰 E-2D Units 📰 E-5D Units	10.0.1.16	Furnace Room E-2D	Normal
E-16D Units	10.0.1.17	Compressor Rm. E-5D	Normal
	147.0.27.197	E-16D Server Rack Monitor	Normal
	147.0.27.207	E-2D Lab Room Environment Monitor	Normal
	147.0.27.208	E-5D Server Rack Monitor	Normal
	147.0.27.212	E-5D E04 DDNS Test Unit	Normal
	147.0.27.218	E-2D P05	Normal
	192.168.1.100	E-16D 24V IPMI Rack	Normal
	100 100 0 100		(Reference)

Figure 12- My Devices List

Next, under Sensor Settings, you have a "My Sensors" list of all sensors, IP addresses and cameras connected to the Devices being monitored.

nsor Tree	Sensors Available							
A Home	Search Sensors:							
📰 E-2D Units	Sensor Name≑	Sensor Type¢	Device Name≑					
► ♣ E-2DB E08 ► ♣ E-2DB E02 (RevG)	1. E-2DB E08 Input Voltage	Internal Sensor	E-2DB E08					
E-20B E01 (RevG/POE)	1.1. E-2DB E08 Temperature 1	External Sensor	E-2DB E08					
- E-2D Lab Room Environment Monitor								
- E-2D P04	1.2. E-2DB E08 Humidity 1	External Sensor	E-2DB E08					
🖴 Furnace Room E-2D	1.3. E-2DB E08 Dew Point 1	External Sensor	E-2DB E08					
• 📾 E-2D E04 (RevG)	2.1. E-2DB E08 ACDCLM Sensor 2-1	External Sensor	E-2DB E08					
E-2DB P02	2.2. E-2DB E08 ACDCLM Sensor 2-3	External Sensor	E-2DB E08					
🛖 E-2DB E15	2.3. E-2DB E08 ACDCLM Sensor 2-2	External Sensor	E-2DB E08					
📰 E-5D Units	2.4. E-2DB E08 ACDCLM Sensor 2-4	External Sensor	E-2DB E08					
E-5DEL-1 (E07)	1. E-2DB E08 Digital Input 1	Digital Inputs	E-2DB E08					
E-5D Server Rack Monitor		5 1						
Content and the second s	2. E-2DB E08 Digital Input 2	Digital Inputs	E-2DB E08					
Remote E-5D	1. CPU250 Win Server 2016	IP Devices	E-2DB E08					
🛖 E-5D E01	1. E-16D-24V IPMI Rack Memory Free	SNMP Sensors	E-2DB E08					
Compressor Rm. E-5D	2. IPDU Output Relay 1	SNMP Sensors	E-2DB E08					
🖴 E-5D E02	3. NAS (NDATA) System Temperature	SNMP Sensors	E-2DB E08					
E-16D Units	4. NAS (NDATA) Fan 1 Speed (RPM)	SNMP Sensors	E-2DB E08					
E-16DEL-1 (Master)								
E-16D S1	5. NAS (NDATA) Fan 2 Speed (RPM)	SNMP Sensors	E-2DB E08					
E-16D 24V IPMI Rack	1. E-2DB E08 Output Relay 1	Output Relays	E-2DB E08					
Oper8 Test Unit	1. Power Supply 1	Power Supplies	E-2DB E08					
E-16D 48∨	2. Power Supply 2	Power Supplies	E-2DB E08					
🛻 E-16D E100	1. Wanscam HW0041-1	IP Cameras	E-2DB E08					

Figure 13- My Sensors List

Next is the "Add Or Remove Devices" page for adding more Devices to be monitored and adding groups to put the Devices into. Groups makes it easier to manage how the sensors and Devices will be monitored. From this page they can also quickly be removed from the list.

ld Or Remo	1 Mérile Mérile							
vice Groups		+	+ Add New Device					
Home Is 2D Units		Do	omain or IP Address	Domelin of IP Address of your Environiux device				
E-SD Units		Pro	rotocol	HTTP				
E-160 Units	▶ 🛲 5-160 Units			Protocol used to communicate with device 80				
			Port Of Web Server					
				Port number of web server protocol HTTP or HTTPS				
		Admin Username	loot					
				Username of a user with admin privileges on above Enviromux device				
		Ad	dmin Password					
		Ad	dmin Password	Password for above user				
Greate Group Ren	ame Broup - Delete Broup Delete Device	Ad	dmin Password					
Greate Group Ren	ame Group Dekele Group Dekele Device	Ad	dmin Password	Password for above user Add Device				
Greate Group Ren	ame Broup Dekto Broup Dekte Device	Ad	dmin Password					
wices Added	ame Broup Dekde Broup Dekde Derfor Device Name	Ad Status ²	dmin Password					
wices Added IP Address+			dmin Password					
ivices Added IP Address- 19.0.1.16	Device Name ²	Status ²	dmin Password					
vices Added IP Address+ 10.0.1.16 147.0.27.197	Device Name5 Furnace Room E-2D	Status ² Normal	dmin Password					
	Device Name© Furnace Room E-2D E-16D Server Rack Monitor	Status2 Normal Normal	dmin Password					

Figure 14- Add or Remove Devices

Lastly, use the "Maps" page to upload an unlimited number of images of a map, building, or server room (examples). Images must be .jpg or .png format, with a maximum size of 20MB (any resolution). On these images you can place markers for Places, Devices, or individual Sensors that you want to easily monitor the status of. Many map images are pre-loaded for you to choose from.

1. To setup a map, first select either "Floorplan" from the Map Type dropdown, or select a specific location from the pre-loaded maps. If you select "Floorplan", you will have the option to load a custom image. Locate the image file to be uploaded (must be .jpg or .png format). Then click "Upload".

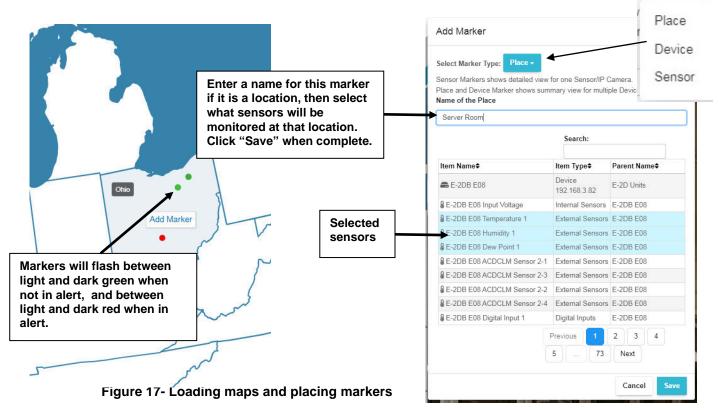
2. Once uploaded, you can click on the map to have it enlarge in the viewing window.

Map List				Home / Map La	st
Available Maps			Add New Mag		
Name	Мар Туре	Edit	Map Name	Server Room	
Server Room	Floor Plan	Edit Delete		Enter name of this map	-
World Sensors	World	Edit Delete	Map Type Floor Plan	Floor Plan Select Map Location Type you want to add sensors to Choose File No file chosen Upload a floor plan of your desired location. Allowed file types: .png, .jpg Add New Map	World World Floor Plan Africa Asia Europe North America Oceania
	F	Figure 15- N	Л ар Турез	s to choose from	South America Argentina Australia Austria Bangladesh Belgium Brazil Canada Chile China Colombia Denmark



Figure 16- World map provided

3. Right click anywhere in the image to add a marker. A prompt for "Add Marker" will display. Click on that to bring up a list of sensors to be monitored in a Place, from a Device, or individual sensors.



dd Marker		×	Add Marker		
elect Marker Type: Device - ensor Markers shows detailed view lace and Device Marker shows su			Select Marker Type: Sensor + Sensor Markers shows detailed view Place and Device Marker shows sum		
Device Name≎	IP Address\$	Group Name\$			
E-2DB E08	Device 192.168.3.82	E-2D Units	Sensor Name\$	Sensor Type\$	Device Name\$
E-2DB E02 (RevG)	Device 192,168,3,222	E-2D Units	E-2DB E08 Input Voltage	Internal Sensors	E-2DB E08
	Device		E-2DB E08 Temperature 1	External Sensors	E-2DB E08
E-2DB E01 (RevG/POE)	192.168.3.223	E-2D Units	E-2DB E08 Humidity 1	External Sensors	E-2DB E08
E-2D Lab Room Environment	Device 147.0.27.207	E-2D Units	E-2DB E08 Dew Point 1	External Sensors	E-2DB E08
	Device	5 50 11 3	E-2DB E08 ACDCLM Sensor 2-1	External Sensors	E-2DB E08
E-5DEL-1 (E07)	192.168.3.81	E-5D Units	E-2DB E08 ACDCLM Sensor 2-3	External Sensors	E-2DB E08
E-5D Server Rack Monitor	Device 147.0.27.208	E-5D Units	E-2DB E08 ACDCLM Sensor 2-2	External Sensors	E-2DB E08
E-5D E04 DDNS Test Unit	Device	E-5D Units	E-2DB E08 ACDCLM Sensor 2-4	External Sensors	E-2DB E08
BE 30 E04 DONO Test offic	147.0.27.212	E SD ONIG	E-2DB E08 Digital Input 1	Digital Inputs	E-2DB E08
E-16DEL-1 (Master)	Device 192.168.3.100	E-16D Units	E-2DB E08 Digital Input 2	Digital Inputs	E-2DB E08
E-16D S1	Device 192.168.3.101	E-16D Units		Previous 1	2 3 4
E-16D 24V IPMI Rack	Device 192.168.1.100	E-16D Units		5 75	Next
	Previous 1	2 3 Next			Cancel Sav
					Calicer

Figure 18- Markers for Device or Sensor

With your maps and markers defined, you can create a Dashboard and add your map to it (see page 23).

Monitor	•	Map 2	🗭 Edit	
Home		map 2		<u> </u>
Status +				
Graphs		+		
Multi-Sensors +		-		
Status & Alerts				
IP Cameras				
Camera Tests				
Map 1				
Map 2				
Events	Þ			
B Devices	•			
Settings	•			
About				

Figure 19- Use a configured map to monitor select sensors

With the map on the screen, click on any marker and the sensor or sensors associated with the Location/Device will be displayed and the status of those sensors will be indicated.

Assigned	Basement	Basement						
Marker	Search:							
	ltem Name≑	ltem Type≑	Status≎	Parent Name\$				
	🖨 E-2DB E08	Device 192.168.3.82	Normal	E-2D Units				
	E-2DB E08 ACDCLM Sensor 2-2	External Sensors	0.0 %	E-2DB E08				
	E-2DB E08 Dew Point 1	External Sensors	29.4 °F	E-2DB E08				
	E-2DB E08 Temperature 1	External Sensors	81.2 °F	E-2DB E08				
		Previous 1	Next					
		Close						

Figure 20- Sensor status at location "Basement"

Devices to Monitor

Before adding a Device, select the group under which the Device needs to be added. If no selection is made the Device will be added to the "Home" group.

To add a Device, click on "Devices"-> "Add or Remove Device" in the side menu. A window will open as shown on the next page.

Enter 1) the Domain or IP address for the Device,

- 2) the connection protocol (HTTP or HTTPS),
- 3) the server port number (usually 80 for HTTP and 443 for HTTPS)
- 4) any user with admin privileges on the E-xD can be used
- 5) the user with admin privileges password
- 6) press "Add Device".

If the IP address is valid, the message "Connecting to Device" will be followed by "Device added successfully" and the Device will appear in the Devices Added list. The sensors attached to that Device will be sensed and added to the "My Sensors" page.

If the IP address or Domain is not valid or accessible, the message "Error 913: Connection Timeout" will be displayed.

TIP: If you don't know the IP addresses of the Devices to be monitored, you can use the included NTI Discovery Tool (page 19) to identify them (provided they are all connected to the same LAN).

■ NTI EN	VIROMUX	Management Softw	are				🖬 Admin 🔔
Monitor	•	Add Or Remo	ove Devices	Add Devices			Home Add Or Ramove Device
A Events		Device Groups		7100 2011000		+ Add New Davice	
Devices		Home				Domain or IP Address	
My Devices		- E-2D Units					Domain or IP Address of your Enviromux device
My Sensors		► ■ E-60 Units				Protocol	HTTP ¥
Add Or Remove De	evice	E 160 Units					Protocol used to communicate with device
🔹 Settings	÷.					Port Of Web Server	80
About							Port number of web server protocol HTTP or HTTP8
U ADDA	<i>b</i> .					Admin Username	root
	<						Usemathe of a user with admin privileges on above Environmux device
						Admin Password	
							Password for above user
		Greate Broup Rec	ame Broup Delete Broup Delete Dev	loe			Add Device
							Ado Device
ces added		Devices Added					
Les audeu		IP Address+	Device Name‡		itatus‡		
		10.0.1.18	Furnacu Room E-2D	1	ionnal		
		147.0.27.197	E-16D Server Rack Monitor	,	lormal		
		147.0.27.207	E-2D Lab Room Environment Monit	at t	lormal		
		147.0.27.206	E-60 Server Rack Monitor	1	iormai		
		147.0.27.212	E-50 E04 DONS Test Unit	1	iormal		
		10200100100	1.02003000	11	initial and a second		

Figure 21- Add Devices to monitor

Continue adding until all Devices to be monitored are listed.

Groups

Groups can be used to organize your Devices as viewed on the Dashboard.

The name of the default group "Home" can be changed. Below it has been changed to "Server Room". Click the name, click on "Rename Group", and enter the new name. Press Enter key to save.

Add Or Remove Devices

New Group	up will	vill]			
]			
Create Group Rename Group Delete Group Delete I						

Figure 22- Primary group, and New Group added

Click "Create Group" to add an additional group. While the "New Group" name is selected (highlighted), any Device that is entered will fall under that group.

To remove a group, while the group to be removed is selected (highlighted), click "Delete Group".

To move a Device from one group to another group, first select the Device in the group to remove it from, then click "Delete Device".

Add Or Remo	ove Devices			Home Add Or Ramovis Devicies
Device Groups			+ Add New Device	
E20 PM E20 PM E50 PM	92 1 (Branch) Recent Environment Monitor 4 (Mantan) 1 V (Mantan) 1 V (Man Rack, 92 92 93 94 94 95 95 96 97 97 97 97 97 97 97 97 97 97		Domain of IP Address Protocol Port Of Web Borner Admin Username Admin Passwood	Domain or IP Address of your Einsteiniux device HTTP Protocol laste to communicate with device for Port number of web serve protocol HTTP or HTTP 6 Not Litername of a user with admin proleges on above Einsteiniux device Pasterior for above user Addid Device
IP Address+	Device Name\$	Status‡		
10.01.16	Fumace Room 8-20	Normal		
147.0.27.197	E-16D Server Rack Monitor	Normal		



Add Or Remove Devices		Home / Add Or Remove Devices
Device Groups	+ Add New Device	
	Protocol Port Of Web Server Admin Username	10.0.1.16 Domain or IP Address of your Enviromux device HTTP Frotocol used to communicate with device 80 Port number of web server protocol HTTP or HTTPS Frot Username of a user with admin privileges on above Enviromux device
	Admin Password	samaline of a user with authin privileges on above crivitoritux device Password for above user
E-160 P02 E-160 Server Rack Monitor E-160 Server Rack Monitor New Group Furnace Room E-2D Create Group Rename Group Dekte Group Dekte Device		Add Device

Figure 24- Device moved/added to New Group

Now select the new group name to add it to (above it is "New Group"), and re-enter the IP address and additional information. Click "Add Device". If successful, the message "Device added successfully" will appear and the Device will be listed under the new group name.

If you do not know the IP address of the Device you want to add, you can use the included NTI Discovery Tool (page 19) to identify them (provided they are all connected to the same LAN).

To reload the configuration for a Device, rename the Device or delete the Device, you can right-click the Device in the list from the Add Or Remove Devices menu.

evice Group:	3		
- 🖀 Home			
🖡 🧱 E-	2D Units		
	E-2DB E08		
	Reload Config		
	Rename Device		
	Delete Device		
		nment Monitor	
	E-2D P04		
	E-2D P05		
	5D Units		
	16D Units		
• • • •	ew Group		

Figure 25- Additional features from Add Devices menu

The user can access and change configuration settings for a Device by going to the My Devices menu, double-clicking the Group, and then the Device. Accessing the Device this way will open up the list of configuration options for the Device.

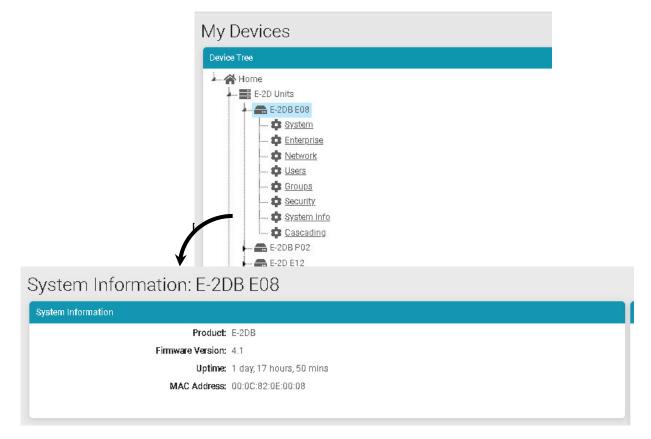


Figure 27- System Info page for the Device

Device Discovery Tool

In order to easily locate the Device on a network, the NTI Device Discovery Tool may be used. The Discovery Tool is available on many of our webpages, including http://www.networktechinc.com/download/d-environment-monitor-16.html. Download the discovery zip, extract the contents to your PC and click on the file *NTIdiscover.jar*. This will open your browser and display the Device Discovery Tool page.

Note: The Device Discovery Tool requires the Java Runtime Environment to operate.

Note: The computer using the Device Discovery Tool and the ENVIROMUX must be connected to the same physical network in order for the Device Discovery Tool to work.

Network Technologies Inc Device Discovery Tool

START

When you load this page, the NTI Device Discovery Applet should load. Accept the Certificate to allow this
applet access to your network. Press the button entitled **Detect NTI Devices** to start the discovery
process. After a short time, the tool will display all NTI devices on your network, along with their network
settings.

Note: Do not close this page while the NTI Discovery Tool is running. Close the NTI Device Discovery Application first, then this webpage.

How To Use the Discovery Tool

- <u>To Change A Device's Settings</u>, within the row of the device whose setting you wish to change, type in a new setting and press the Enter key or the Submit button on that row. You can also press the Submit All button to submit all changes at once.
- To Refresh the list of devices, press the Refresh button.
- To Blink the LEDs of the unit, press the Blink LED button (This feature not supported on all products). The Blink LED button will change to a Blinking... button. The LEDs of the unit will blink until the Blinking... button is pressed, or the NTI Device Discovery Application is closed. The LEDs will automatically cease blinking after 2 hours.
- <u>To Stop the LEDs of the unit blinking</u>, press the Blinking... button. The Blinking... button will change to a Blink LED button.

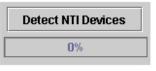


Figure 28- Device Discovery Tool page

Use the Device Discovery Tool to display all NTI ENVIROMUX Devices on the network, along with their network settings. Follow the instructions on the Device Discovery Tool page to use the tool and to change the Device settings if so desired.

ITI Device Discovery									
Device	MAC Address	IP Address	Mask	Gateway					
ENVIROMUX	00:40:9D:24:07:70	65.243.248.18	255.255.255.128	65.243.248.1	Submit	Blink LED			
		Submit All	Refresh	Close					

VIEW SENSORS INDIVIDUALLY

With Devices added, you can now view the sensors connected to those Devices. Select My Sensors from the side menu.

Tree	Sensors Available			
Home			Search Sensors:	
E-2D Units	Device Name+	Sensor Type¢	Sensor Name\$	
🚓 E-2DB E08 🏤 E-2DB P02	E-16D 24V IPMI Rack	Internal Sensor	1. E-16D-24V Internal Temperature	click on this to see the
E-2D E12	E-16D 24V IPMI Rack	Internal Sensor	2. E-16D 24V Internal Humidity	details for it
	E-16D 24V IPMI Rack	Internal Sensor	8 E 16D 24V Input Voltage	
E-2D Lab Room Environment Monitor E-2D P04	E-16D 24V IPMI Rack	External Sensor	1.1. E-16D-24V IPMI Rack Motion Detector 1	Æ/%
Furnace Room E-20	E-16D 24V IPMI Rack	External Sensor	2.1. E-16D-24V IPMI Rack Front Door Light St	ensor 2
🛲 E-2D P05	E-16D 24V IPMI Rack	External Sensor	0.1. E-16D-24V Screen Room Temperature 0	
E-50 Units	E-16D 24V IPMI Rack	External Sensor	8.2. E-160-24V Screen Room Humidity 8	
	E-16D 24V IPMI Rack	External Sensor	4.1. E-160-24V Screen Room Temperature 4	
🚔 E-5D Server Rack Monitor	E-16D 24V IPMI Rack	External Sensor	4.2. E-16D-24V Screen Room Humidity 4	
- 🚔 E-SD E04 DDNS Test Unit	E-16D 24V IPMI Rack	External Sensor	5.1. E-16D-24V Screen Room Temperature 5	(505-200)
	E-16D 24V IPMI Rack	External Sensor	6.1 E-160-24V Screen Room Temperature 6	
► 🛲 E-5D-48V	E-16D 24V IPMI Rack	External Sensor	6.2. Screen Room Humidity 6 (SCS-200)	
E-16D Units	E-16D 24V IPMI Rack	External Sensor	7.1. Metal Fab Room Temperature	
 E-16DEL-1 (Master) E-16D S1 	E-16D 24V IPMI Rack	External Sensor	7.2. Metal Fab Room Humidity	
E 160 24V IPMI Rack			The second s	
- E 16D P02	E-16D 24V IPMI Rack	External Sensor	8.1 Engineering Lab Temp	
- E-16D Server Rack Monitor	E-16D 24V IPMI Rack	External Sensor	9.1. IPMI Rack Top Front Temp	
- 🛲 E-16D E100	E-16D 24V IPMI Rack	External Sensor	9.2. IPMI Rack Top Front Humidity	

Figure 29- Sensors being monitored

The initial list will be all of the sensors, cameras and remote IP Devices that attached to the Devices and are now being monitored by the E-MNG-SH. To see the details for a specific sensor in that list, click on the blue text for the Sensor Name. Sensor values, a historical graph, and all settings for that sensor can be viewed. Settings can also be changed if desired.



Figure 30- Details for Internal Temperature Sensor

To quickly find a sensor, type all or part of a sensor name or Device name in the "Search Sensors" box.

Sensors Available		
		Search Sensors: 16del X
Device Name\$	Sensor Type\$	Sensor Name-
E-16DEL-1 (Master)	Output Relays	1. 16DEL-1 Output Relay 1
E-16DEL-1 (Master)	IP Devices	1. E-16D Web Demo
E-16DEL-1 (Master)	Tac Sensor	1. E-16DEL-1 Digital Input 1 Tach Sensor (In Reserve)
E-16DEL-1 (Master)	Internal Sensor	1. E-16DEL-1 Internal Temperature
E-16DEL-1 (Master)	Power Supplies	1. E-16DEL-1 Power Supply
E-16DEL-1 (Master)	Events	1. Event #1 E-16D-M Internal Temperature
E-16DEL-1 (Master)	SNMP Sensors	1. NAS (NDATA) System Temperature
E-16DEL-1 (Master)	IP Cameras	1. Wanscam HW0041-1
E-16DEL-1 (Master)	External Sensor	1.1. E-16DEL-1 STHS-99 Port 1 Temperature
E-16DEL-1 (Master)	External Sensor	1.2. E-16DEL-1 STHS-99 Port 1 Humidity
E-16DEL-1 (Master)	External Sensor	1.3. E-16DEL-1 STHS-99 Port 1 Dew_Point
E-16DEL-1 (Master)	IP Devices	10. SPLITMUX-HD-4RT Web Demo
E-16DEL-1 (Master)	External Sensor	10.1. E-16DEL-1 RTD Port 10 Temperature 1
E-16DEL-1 (Master)	External Sensor	10.2. E-16DEL-1 RTD Port 10 Temperature 2 (Reserved)
E-16DEL-1 (Master)	IP Devices	11. E-MICRO Web Demo Unit
E-16DEL-1 (Master)	External Sensor	11.1. E-16DEL-1 STHSD Port 11 Temperature

Figure 31- Use Search Sensors box

To see sensors connected to a specific Device, double-click or expand the Device in the group.

My Se	ensors
Sensor T	ree
- *	łome
4	E-2D Units
	🖴 E-2DB E08
	🌡 Internal Sensors
	🛏 🌡 External Sensors
	🖬 🔒 Digital Input
	Digital Input Jigital Input Jigital Input Jigital Input SNMP Sensors
	Market SNMP Sensors
	Output Relays Sover Supplies IP Cameras Events Smart Alerts
	Power Supplies
	• I I <u>IP Cameras</u>
	Events
	🛖 E-2DB P02
	E-2DB E11 (RevF)
	E-2D P04
	🛖 E-2D P05

Figure 32- Sensors, relays, IP Cameras etc attached to a specific Device

If you click once on a specific sensor category, the screen format will change and show the status of all sensors in that category.

External Sensors					Sensor Tree
Description	Туре	Value	Status	Action	And the second s
.1. E-2DB E08 Temperature 1	Temperature Combo	79.1 °F	Normal	View Delete	
I.2. E-2DB E08 Humidity 1	Temperature Combo	18.7 %	Normal	View Delete	- & Internal Sensors
1.3. E-2DB E08 Dew Point 1	Dew Point	32.8 °F	Normal	View Delete	Leternal Sensors Leternal Sensors Leternal Sensors Leternal Sensors Leternal Sensors
.1. E-2DB E08 ACDCLM Sensor 2-1	AC Voltage	0.0 V	Normal	View Delete	E-2DB E08 Humidity 1
2. E-2DB E08 ACDCLM Sensor 2-8	DC Voltage	-0.1 V	Normal	View Delete	& E-2DB E08 Dew Point 1 & E-2DB E08 ACDCLM Sensor 2-1
3. E-2DB E08 ACDCLM Sensor 2-2	AC Current	0.0 %	Normal	View Delete	& E-2DB E08 ACDCLM Sensor 2-3
2.4. E-2DB E08 ACDCLM Sensor 2-4	DC Current	0.4 %	Normal	View Delete	E-2DB E08 ACDCLW Sensor 2-2

Figure 33- External Sensors connected to specific Device

From that screen you can view each sensor, or delete it from the list.

SETUP A DASHBOARD

Groups of sensors can be monitored in Dashboards containing rows and columns displaying the status of individual sensors. Each of the sensors monitored on each of the Devices can be added to various Dashboards and organized in rows and columns as necessary for easy viewing.

To get started, click the "Edit" button next to "Dashboard1".

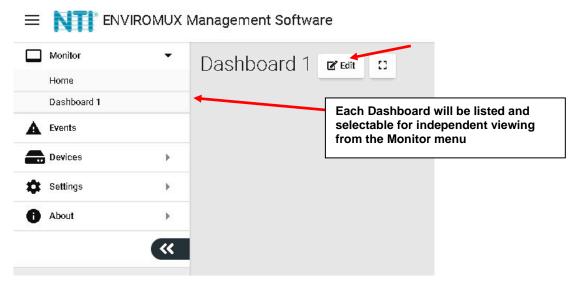


Figure 34- Initial Monitoring Dashboard menu

This will open the window into the options available for creating new Dashboards. With the editing window open, you can change the name of the Dashboard, add a new Dashboard, or add a new row of monitored sensors to the layout. If you click the Finish Edit button, the editing window will close and the configured Dashboard will remain.

Dashboard 1	🗹 Finish Edit	53	Add New Dashboard	
				≓+ Add New Row

Figure 35- Dashboard options

Click "Add New Row" to establish your first row of sensors. Clock the "X" to delete the row and all columns in it.

New Dashboard	🕑 Finish Edit	53	Add New Dashboard		
Row Header					8
≕+ Add New Column					1
					Delete the row
				Ξ+ Add New Row	

Figure 36- How to add Columns or delete Rows

Then click the "Add New Column" to create a column in that row. Click it multiple times for multiple columns. We recommend all columns fit in the same row side by side. To resize the columns click on the Decrease or Increase icon, as many times as needed, and that column will resize accordingly after a short delay (see also page 26).

New Dashboard	🕑 Finish Edit	Add New Dashboard	
Row Header			0
Column Header	😔 🚭 😣		
=+ Add New Window		≓+ Add New Column	
		=+ Ac	i New Row

Figure 37- Ready to add a sensor window

To add a sensor, in the Column Header, click the "Add New Window". A list of all sensors connected to all of the Devices will appear, 10 at a time. Select which sensor is to be monitored in the column. You can also enter a name to associate with that sensor. Navigate through the many sensors available.

Sensors can be viewed as individual sensors, graphs for single sensors, gauges for single sensors and much more. IP Camera snapshots, an alerts list, or Device status can also be viewed.

	Window Name				
	Outside Office	Outside Office			
ngle Sensor Value 👻	Display Type:	Single Sensor Value +			
		Search			
adla Consort Valua	Device Name©	Sensor Name®	Sensor Value#	Sensor Type©	
gle Sensor Value	E-2D8 696	E-2D0 E00 Input Voltage	8.6 V	Internal Sensors	
gle Sensor Graph	E-208 ED6	E-2D8 E06 Temperature 1	79.54	External Sensors	
gle Sensor Card	E-208 E08	E-2DB E98 Humidity 1	18.4 %	External Sensors	
	5-208 E06	E-2D8 E06 Dew Point 1	32.6 *F	External Sensors	
gle Sensor Gauge	E-208 E96	E-208 E06 ACDCLM Sensor 2-1	0.0 V	External Sensors	
Sensor List	E-208 E96	E-2D8 E96 ACD/CLM Sensor 2-9	-0.1 V	External Sansors	
i Sensor Graph	E-208 E06	E-208 ENI ACOCLM Sensor 2-2	0.0%	External Sensors	
	E-208 E96	E-208 E06 ACDCLM Sensor 2-4	0.4%	External Sensors	
Camera	E-200 E06	E-208 E96 Digital Input 1	Open	Digital Inputs	
rts List	E-208 E00	E-2DB E06 Digital Input 2	Open	Digital Inputs	
in a Obstan Lint		Previous	1 2	3 4	
rice Status List		. 75	Next		

Figure 38- Select sensors to view

x

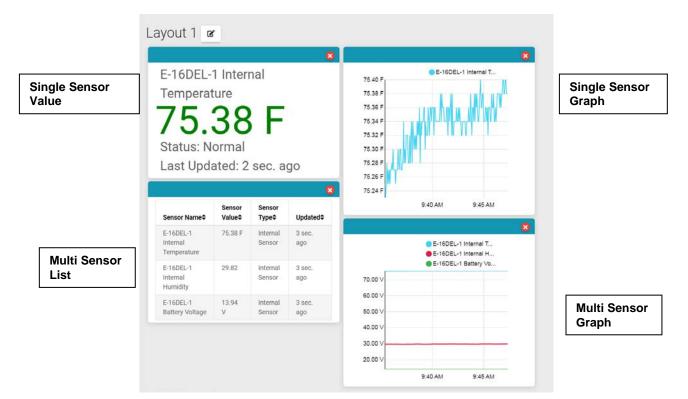


Figure 39- Multiple types of views available

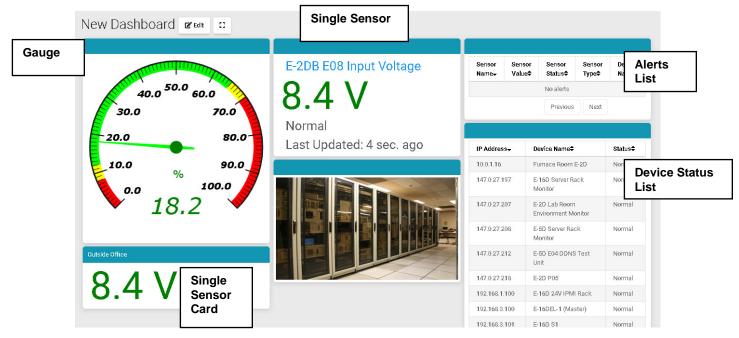


Figure 40- More types of views

To select one sensor, click one listed item and it will turn blue. Click "Save" to enter that in the column.

To select multiple sensors, there is no need to hold the shift key. Clicking one after the other keeps the sensor selected.

To deselect a sensor, click the sensor again.

Once done click "Save" to enter them in the same window.

To quickly locate the sensor you want to display, use the Search box to enter characters in the description to sort the available sensors and display only the ones that include your search parameters.

Select window type and sensors to display

×

)isplay Type:	Single Sensor Value 👻			
	Search	1:		
Devîce Name ≑	Sensor Name\$	Sensor Value≑	Sensor Type≎	
E-2DB E08	E-2DB E08 Input Voltage	8.4 V	Internal Sensors	
E-2DB E08	E-2DB E08 Temperature 1	77.1 °F	External Sensors	
E-2DB E08	E-2DB E08 Humidity 1	19.8 %	External Sensors	
E-2DB E08	E-2DB E08 Dew Point 1	32.7 °F	External Sensors	
E-2DB E08	E-2DB E08 ACDCLM Sensor 2-1	0.0 V	External Sensors	
E-2DB E08	E-2DB E08 ACDCLM Sensor 2-3	-0.1 V	External Sensors	
E-2DB E08	E-2DB E08 ACDCLM Sensor 2-2	0.0 %	External Sensors	
E-2DB E08	E-2DB E08 ACDCLM Sensor 2-4	0.4 %	External Sensors	
E-2DB E08	E-2DB E08 Digital Input 1	Ореп	Digital Inputs	
E-2DB E08	E-2DB E08 Digital Input 2	Open	Digital Inputs	
	Previous	1 2	3 4 5	

Figure 41- Select one or more sensors

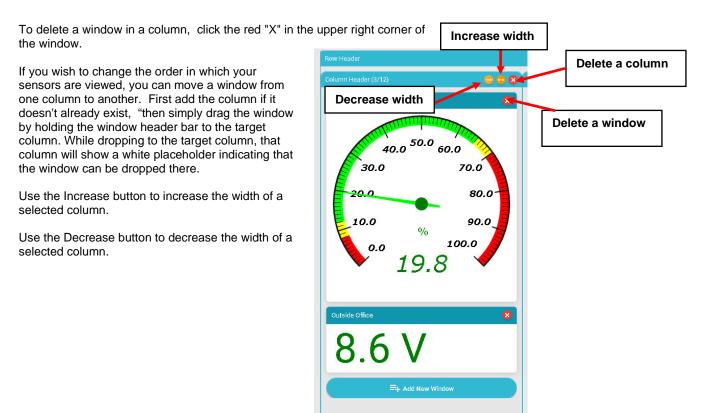


Figure 42- Change the width of a column

To add a new group of sensors to a separate row, Click "Add New Row" and configure the new row in the same fashion.

New Dashboard				
40.0 50.0 60.0 30.0 70.0 10.0 90.0 10.0 % 100.0 19.5	Color state I - 14021 - 1 ACLM SP490 Post 4 Current Phase A 1.7.7 A Normal Last Updated 3 hours ago Ender Schwerker Swaa Nuck 1.8.1 (John State	SS C	Total statu: Total statu:<	Martin Martin No Martin No<
SLOV Statustmen Statustmen	2000 stee MAS (NIDATA) System Temperature 377.0 Normal Lost Updated 5 sec. ago	DED To Address Concerning	Added	
	Figure 43- Ac	E Add New Roy Click to Add New Row		
To logout of the server without s click on the Root icon in the upp click on "Log Out". Message number (image right) in the last alert was viewed or ackr	er right corner of the scre ndicates the number of a nowledged by this user		Admin Edit Profile Log Out	
			Figure 44- Lo	og out

There is no limit to the number of Dashboards that can be setup to organize the type of sensor data you want to see. For example, a "Graphs" Dashboard was setup to view only the graphs from specific sensors.

When in full screen mode (see bottom of this page), scrolling the screen is not possible. Please make sure all windows fit inside the screen to be visible on the monitor.



Figure 45- Dashboard setup to display specific content

Once you are finished editing a Dashboard, click "Finish Editing"

Dashboard 1 Z' Finish Edit I3 Add New Dashboard	
≓+ Add New Row	

While viewing your Dashboard, to make it fill your screen, click on the small box to the right of the Edit button. Press the "Esc" key to return to normal viewing.

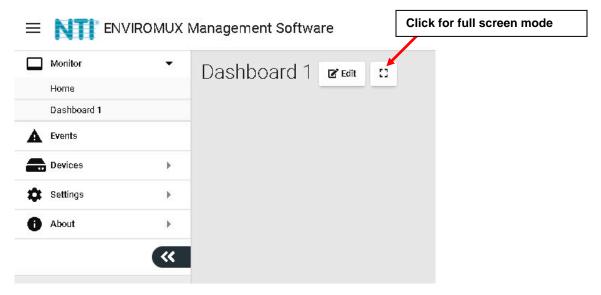


Figure 46- Enable full screen view

EVENTS MENU

The E-MNG-SH can provide information on alerts generated by the devices it is monitoring, and will provide that information in three different forms.

Events Log will provide a list of events that have occurred for each device/sensor the E-MNG-SH is monitoring.

Reports, once configured, will contain event information on selected sensors, devices (and all sensors connected to those devices), or markers assigned to configured maps. The information the reports will provide includes 1) the combined number of alerts that have been generated by each selected sensors/device's sensors/markers in the maps and 2) the combined length of time each of those devices/sensors/ markers were in alert. The frequency of reports and the data present in reports can be configured by "Triggers" and "Actions" respectively.

Recordings are a collection of IPCAM snapshot recordings that have been saved as configured in each sensor alert that is set to provide a snapshot recording from a connected IPCAM.

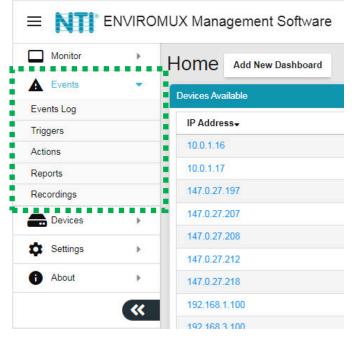


Figure 47- Events Menu

Events Log

The Events Logs is where Sensor Events, Smart Alerts and Alert messages are individually recorded. The time of each event, the type of event and the source of each event are recorded.

Alert logs are recorded in red font.

When the alert is Acknowledged or Dismissed, the alert will show up in the Events Log along with the name of the user.

From the link in the message, you can click and go directly to the sensor to see its current state.

Events Log			Home Events
Events Log			
Time	Event Type	Message	
02/23/2021 10 34 36 AM	info	Sensor 4.1.E-5DEL Port 4 NLS returned to Normal on device E-5DEL-1 (E07)	
02/23/2021 10:23:32 AM	Alert	Sensor 4.1.E-SDEL Port 4 NLS went into Alert on device E-SDEL-1 (E07)	
02/23/2021 10:14:57 AM	info	Sensor 4.1.E-SDEL Port 4 NLS returned to Normal on device E-SDEL-1 (E07)	
MA 55 10 11 33 AM	Alert.	Sensor 4.1.E SDEL Port 4 NLS went into Alert on device E-SDEL-1 (E07)	
02/23/2021 10:00:15 AM	info	Sensor 4.1.5-SDEL Port 4 NLS returned to Normal on device 5-SDEL-1 (E07)	
02/23/2021 09:59:41 AM	Alert	Sensor 4.1.5-SDEL Port 4 NLS went into Alert on device E-SDEL-1 (E07)	
02/23/2021 09:52:04 AM	info	Sensor 1.1.E-16D-24V IPMI Rack Motion Detector 1 76/% returned to Normal on device E-16D 24V IPMI Rack	
02/23/2021 09 51:53 AM	Alert	Sensor 1.1.E-16D-24V IPMI Rock Motion Detector 1 xE/5 went into Alert on device E-16D 24V IPMI Rock	
02/23/2021 09:24:43 AM	info	Smart Alert 2. Smart Alert #2 Beacon & Siren Trigger returned to Normal on device E-2D Lab Room Environment Monitor	
02/23/2021 09:24:43 AM	Info	Smart Alert 1. Smart Alert #1 Lab Intrusion returned to Normal on device E-2D Lab Room Environment Monitor	
02/23/2021 09:24:43 AM	info	Event 4. Event #4 Lab Smoke Detector returned to Normal on device E-20 Lab Room Environment Monitor	
02/23/2021 09 24:43 AM	Info	Event 3 Event 43 Lab Water Sensor returned to Normal on device E-2D Lab Room Environment Manitor	
02/23/2021 09:24:43 AM	Info	Event 2 Event #2 Lab Equipment Door returned to Normal on device E-2D Lab Room Environment Monitor	
02/23/2021 09:24:43 AM	Info	Event 1 Event #1 Lab Main Door returned to Normal on device E-2D Lab Room Environment Monitor	
02/23/2021 09 23 35 AM	info	Smart Alert 2 Smart Alert 2 Beacon 5 Siren Alerta returned to Normal on device E-16D Server Rack Monitor	
02/23/2021 09 23 35 AM	Info	Smart Alert 1 Smart Alert 1 Emergenery UPS Shuddown returned to Normal on device E-16D Server Rack Monitor	

Figure 48- Events Log

If a sensor is in alert, you can directly connect to it and Acknowledge or Dismiss the alert.

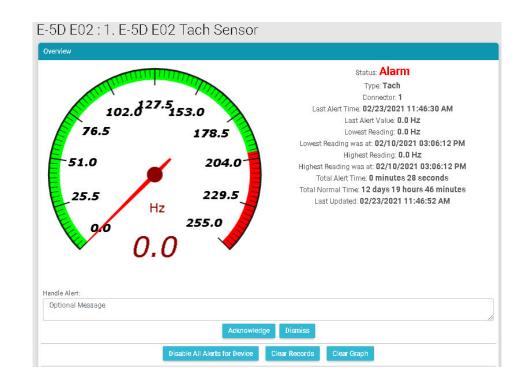


Figure 49- Connect directly to acknowledge or dismiss alert

Whether the Event is viewed on the Events Log page, or from a Dashboard displaying the event, you can click on the sensor in the image and address the event directly.

You can click on the alert to Acknowledge/Dismiss the alert directly from Dashboard.

utdoor Porch Temperature 15 (STHS-0)	Remote 5D STHS-LSH Port 1 Upper Level Temperature	Aler					
	Remote 5D STHS-LSH Port 1 Upper Level	Sensir Name+	Sensor Value¢	Sensor Status♥	Sensor Type¢	Device Name®	Last Updated
72.5	Temperature	E-5D E02 Tach Sensor	0.0 Hz	Alarm	Tac Sensors	E-50 E02	5 sec aga
50.0 ^{72.5} 95.0 7.5 117.5	74.0 °F	Previous 1 Next					
140.0	Marmal	IP Address-	Device Nar	ne#			Statuse
	Last Updated: 14 sec. ago	10.01.16	Fumace Room E-20		Normal		
7.5 162.5		147.0.27.197	E-16D Server Rack Monitor		Normal		
°F		147.0.27.207	E-2D Lab P	toom Environment	Monitor		Normal
10.0 185.0	E-2DB E08 Input Voltage	147.0.27.208	E-5D Serve	r Rock Monitor			Normal
427	0 5 1/	147.0.27.212	E-5D E04 DDNS Test Unit			Normal	
72.7	8.5 V	147.0.27.218	E-2D P05				Normal
		192 168 1 100	E-16D 24V	IPMI Rack			Normal
	Normal	192.168.3.100	E-16DEL-1	(Master)			Normal
or Porch Humidity 15 (STHSO)	Last Updated: 1 sec. ago	192 168 3 101	E-16D &1				Normal
	Penguin Encounter	192.168.3.200	E-16D P02				Normal



When you click on the alert from the Dashboard, a pop-up will display providing the option to acknowledge or dismiss it.



Figure 51- Acknowledge or Dismiss alert pop-up

Reports

Reports will contain event information on selected sensors and devices individually or in groups as they are assigned to Devices, or markers assigned to configured maps. Before you must configure Actions to be reported on and Triggers for how often to have Reports generated.

First click on "Actions" in the Events menu. Apply a name to the Action you will create. Then click on "Add New Action" and your new Action will appear in the list to the left.

Once the Action is listed, click on "Edit" to configure it.

ction Setting	gs		edit		Apply a name			
Available Actions						Add New Action		
Name	Action Type	Entity	Triggers	Enabled	Edit		Name	
Sample Report	Generate Report & Email	E-16DEL-1 (Master)	Sample Trigger	Yes	Edit Delete	Action Name	Enter name for reference	
Sensor Report	Generate Report & Email	E-16D-24V Outdoor Porch Temperature 14 (STO)/ Å	Sensor Trigger	Yes.	Edit Delete			
Map Report	Generate Report & Email	Ohio	Map Trigger	Yes	Edit Delete	Add New Action		
Map 2 Report	Generate Report & Email	Server Rack	Map 2 Trigger	Yes	Edit Delete			



Edit Action: Sample Report						
EditAction						
Last Run Time:	01/25/2022 09:00:03 AM					
Action Name	Sample Report					
	Enter name for reference (Optional)					
Action Enable						
	Select to enable this action					
Action Type	Generate Report & Email			•		
	Select what action to take					
Report Period	Last Day			~		
	The period for which to generate report. Report Week starts on Sunday					
Report Data Type	Device Select the type of data this report should have					
Select Device	Contraction (Not or other one subout success under the					
Select Device		Search:				
Device Namet	IP Address‡	5.003.300	Parent Group Name‡			
a	Device 192.168.3.100		E-16D Units			
	Device 192.168.3.82		E-2D Units			
-	Device 192.168.3.222		E-2D Units			
	Device 192 168.3.223		E-2D Units			
Devices that	Device 147.0.27.207		E-2D Units			
a can be	Device 192.168.3.81		E-5D Units			
= selected.	Device 147.0.27.208		E-5D Units			
a selected.	Device 147.0.27.212		E-5D Units			
	Device 192 168 3.101		E-16D Units			
	Device 192.168.1.100		E-16D Units			
	Previous	2 3 Next				
	5. 10 P Policija	E F F FRA				
Select Triggers that activate this Action						
		Search:				
Trigger Name®	Trigger Frequency\$	Next Trigger Time\$		Enabled¢		
Sample Trigger	Repeat Daily	01/25/2022 09:00:00 A		Yes		
Sensor Trigger	Repeat Weekly	01/27/2022 12:00:00 A	м	Yes		
Map Tngger	Repeat Daily 01/25/2022 12:00:00 PM		0 PM Yes			
Map 2 Trigger	Repeat Weekly	01/31/2022 12:00:00 A	м	Yes		
	Previous 1	Next				
		ave Action				
	R	un Action Now				

Figure 53- Action Options

Be sure to enable the "Action Enable" block. Otherwise reports will not be generated.

For Action Type, select between "Generate Report" and "Generate Report & Email". If you select "Generate Report & Email" then all users with "Email Alerts" selected (Figure 11) will received reports via email.

The Report Period is the data in the time period that reports should include. A long list of time periods is available to select from.

The Report can include alerts from specific sensors, sensors that are connected to specific devices (E-xD units) or sensors identified with markers place in configured maps. Available selections will adjust depending upon what Report Data Type you select.

Once Triggers have been set up, they will appear in the list. Triggers determine how often the Action will be initiated and when. Either select a Trigger to cause the action to occur and generate a report, or configure a new Trigger first (on the next page).

Be sure to click "Save Action" to retain your changes. To test the result of the action, click "Run Action Now". The Report generated by that action should appear under Reports, and if you have selected it, each user with Email Alerts enabled will also receive a pdf copy of the report.

Triggers

Triggers determine how often an Action will be taken and a Report generated from that Action.

Click "Triggers" in the Events menu. Apply a name to the Trigger you will create. Then click on "Add New Trigger" and your new Trigger will appear in the list to the left.

Once the Trigger is listed, click on "Edit" to configure it.

Monitor	•	Trigger Settings						Home / Trigger Sett
Events	•	Available Triggers					Add New Trigger	
Events Log		Name	Last Trigger Time	Next Trigger Time	Enabled	Edit		
Triggers Actions		Sample Trigger	01/24/2022 09:00:01 AM	01/25/2022 09:00:00 AM	Yes	Edit Delete	Trigger Name	Name Enter name for reference
Reports		Sensor Trigger	01/20/2022 12:00:01 AM	01/27/2022 12:00:00 AM	Yes	Edit Delete		
Recordings		Map Trigger	01/24/2022 12:00:04 PM	01/25/2022 12:00:00 PM	Yes	Edit Delete		Add New Trigger
Devices	Þ	Map 2 Trigger	01/24/2022 12:00:03 AM	01/31/2022 12:00:00 AM	Yes	Edit Delete	-	
Settings	×							
About	•							

Figure 54- Trigger List

uit mgger.	Sample Trigger	Repeat Weekly
Edit Trigger Last Trigger Time: Next Trigger Time:	01/24/2022 09:00:01 AM 01/25/2022 09:00:00 AM	Once Repeat Hourly Repeat Daily
rrigger Name	Sample Trigger Enter name for reference (Optional)	Repeat Weekly Repeat Monthly
Trigger Enable	Select to enable this trigger	Repeat Quarterly Repeat Yearly
Trigger Frequency	Repeat Daily Specify how often this trigger should repeatedly activate	
Select Hour	9 AM	~]
	Select hour of the day at which this triggers	
	Save Trigger	

Figure 55- Trigger Options

If the Trigger had been previously setup, the last trigger time and next trigger time will be indicated.

The name given to the Trigger will be displayed and can be changed.

A checkbox to enable the Trigger is provided so that it can be used.

Select the Trigger Frequency from a list of options. Depending upon what Trigger Frequency is selected, the option for fine tuning the frequency will change. (See next page)

Trigger Frequency Select date and time of trigger		Once Specify how often this trigger shoul 01/31/2022 12:00:00 AM Select trigger date and time	Trigger Frequency Select Minute	Repeat Hourly Specify how often this trigger should repeatedly activate 48 Select minute of the hour at which this triggers
Trigger Frequency	Repeat Daily Specify how often this trigger should repeatedly activate		Trigger Frequency	Repeat Monthly Specify how often this trigger should repeatedly activate
Select Hour	12 AM Select hour of the day at which this triggers		Select day of mont	h 1 Select day of the month at which this triggers

Figure 56- Option detail for Trigger Frequency

Be sure to click "Save Trigger" to retain your changes.

With Triggers and Actions setup, Reports will be generated and added to the Report List.

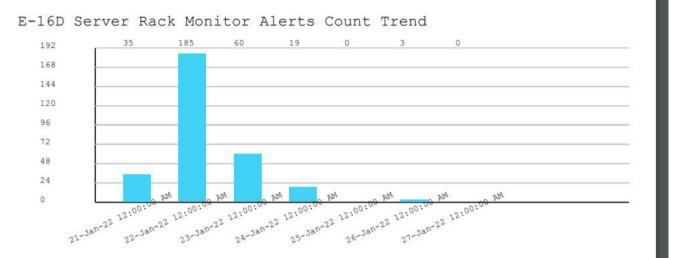
Pending Reports: 0. Available Reports:						
7. E-16DEL-1 (Master) Device Report	Last Day	Completed	Device	01/08/2022 09:00:02 AM	View Download Delete	
6. E-16DEL-1 (Master) Device Report	Last Day	Completed	Device	01/07/2022 09:00:02 AM	View Download Delete	
5. E-16DEL-1 (Master) Device Report	Last Day	Campleted	Device	01/06/2022 09:00:03 AM	View Download Delete	
4. E-16D-24V Outdoor Porch Temperature 14 (STO)/ Å Report	Last Week	Completed	Sensor	01/05/2022 11:54:51 AM	View Download Delete	
3 E-16DEL-1 (Master) Device Report	Last Day	Completed	Device	01/05/2022 09:00:04 AM	View Download Delete	
2. E-16DEL-1 (Master) Device Report	Last Day	Completed	Device	01/04/2022 09:00:06 AM	View Download Delete	
1. E-16DEL-1 (Master) Device Report	Last Day	Completed	Device	01/03/2022 03:37:16 PM	View Download Delete	

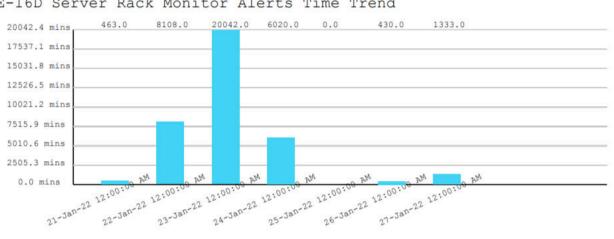
Figure 57- Reports list

With a report in the list, you can click "View" to see the content immediately, click "Download" to save it for viewing later, or click "Delete" if you don't want it in the list any longer.

The sensor report will provide a graph indicating the total number of alerts generated by each sensor and the total length of time that sensor was in alert.

Maps and device reports provide an alert details summary and its trends (see image on next page). A maximum of 800 reports will be stored before the software automatically deletes the oldest reports.





E-16D Server Rack Monitor Alerts Time Trend

Figure 58- Report showing sensor alert trends

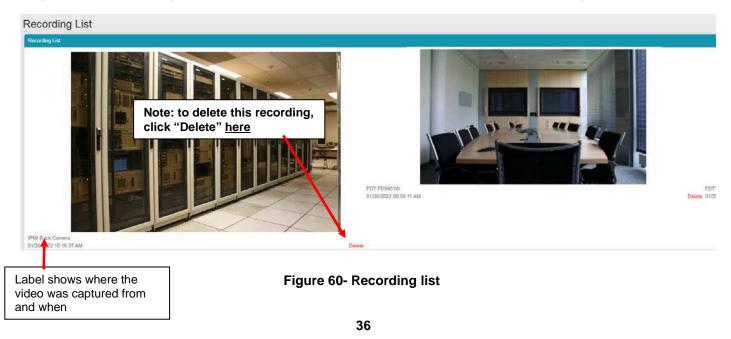
Recordings

Recordings are snapshot recordings from selected IPCAMs when a sensor goes into alert. The IPCAM and the length of time it will record will be selected under critical alert settings for that sensor (below). Recordings are collections of snapshots from the camera, taken as frequently as the refresh rate for the camera is set for.

- Critical Alert Settings						
Disable Alerts	Disable alert notifications for this sensor					
Alert Delay	20 Duration the sensor must be out of thresholds before alert is generated	Sec	~			
Notify Again Time	6 Time after which alert notifications will be sent again	Hr	×			
Notify on return to normal	Send a notification when this sensor returns to normal status					
Auto acknowledge	Automatically acknowledge atert when sensor returns to normal status					
Enable Syslog Alerts	Send atarts for this sensor via systog					
Enable SNMP Traps	Send alerts for this sensor via SNMP traps					
Enable E-mail Alerts	Send aderts for this sensor via e-mail					
E-mail Subject	E-16D-24V Screen Room Temperature 3 Alert Subject of e-mails sent for sierts					
Select IP Camera	IPMI Rack Camera . Belect IP camera for image capture/recording on alert					
Attach IP camera capture to e-mail	Attach captured image from selected IP camera to alert e-mail					
Save image to USB	Save captured image from selected IP camera to USB Flash					
Length of time to record this IP camera	Disable Record Disable Record		~			
Enable SMS Alerts	5 Sac 10 Sec 15 Sec					
Send custom SMS	30 Sec 1 Min 2 Min					
Customized SMS	5 Min 10 Min Customized SMS message sent for alerts					
Enable Siren	Tum on the sinen when this sensor goes to allert					
Enable Beacon	Turn on the beacon when this sensor goes to alert					
Associated Output Relay	None Name of the output relay that can be controlled by this sensor		×			
Output Relay status on alert	Inactive Status of the output relay when going to alert		v			
Output Relay status on return from alert Inactive Status of the output relay when returning from alert						

Figure 59- User settings to enable Recording

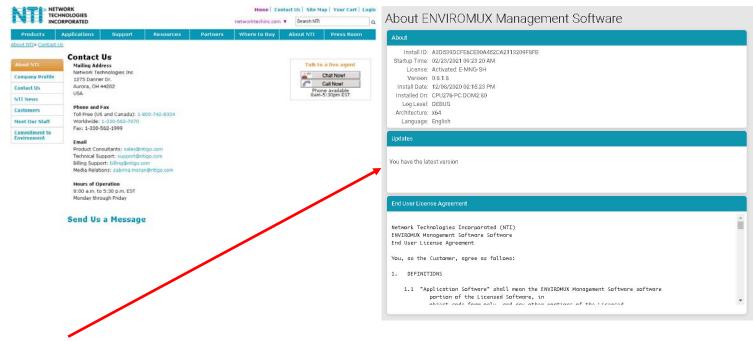
To see your recordings, click on "Recordings" in the Events menu. The camera the recording came from and time it was recorded will be in the bottom left corner of the recording. To delete a recording, click "Delete" in the bottom **right** corner of the recording image. Up to 1000 recordings will be stored before the software automatically deletes the oldest recording.



THE ABOUT MENU

The About menu includes tools for viewing the firmware version you are using and any details about it, as well as providing a link the this manual and a link to a contacts page should you need to contact NTI. Lastly it provides a link to the firmware downloads page where you can get access to the most current version of the E-MNG-SH program.

0	About	
	About ENVIROMUX Management Software	
	User Manual	
	Downloads	
	Contact NTI	
	Figure 61- About menu	



From the "About ENVIROMUX Management Software" page you can also, at a glance, see if another more current version of the software is available, without having to actually leave the program and go to the Downloads page.

SHUT DOWN E-MNG-SH SERVER

To shut down the E-MNG-SH completely, left click the tray icon in the bottom right corner of your desktop.

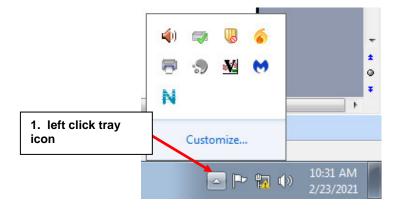


Figure 62- Click on Tray icon

Then right click the E-MNG-SH icon, and select Exit.

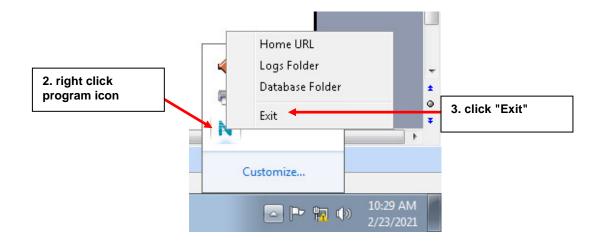


Figure 63- Exit the program

OTHER TYPE DEVICES

The E-MNG-SH can be accessed from any network-connected computers/smartphone/tablet (provided the computer/smartphone/tablet has access to the Server the E-MNG-SH is on).

NП	ENVIRO	MUX Man	agement Softwa	re		\geq	Admin	
Device	es Available							
IP /	Address .	Dev	ice Name≑			Status≑		
10.	0.1.16	Furr	nace Room E-2D			Normal		
147	7.0.27.197	E-16	5D Server Rack Monitor			Normal		
147	7.0.27.207	E-20	D Lab Room Environment	Monitor		Normal		
147	7.0.27.208	E-50	D Server Rack Monitor			Normal		
147	7.0.27.212	E-50	D E04 DDNS Test Unit			Normal		
147	7.0.27.218	E-20	D P05			Normal		
192	2.168.1.100	E-16	5D 24V IPMI Rack			Normal		
192	2.168.3.100	E-16	E-16DEL-1 (Master)			Normal		
192	2.168.3.101	E-16	E-16D S1			Normal		
192	2.168.3.200	E-16	E-16D P02			Normal		
192	2.168.3.217	E-50	E-5D-48V			Normal		
192	2.168.3.221	E-20	E-2DB P02			Normal		
192	2.168.3.222	E-20	E-2D E12			Normal		
192	2.168.3.223	E-20	E-2DB E11 (RevF)			Normal		
192	2.168.3.225	E-50	E-5D E02			Normal		
192	2.168.3.227	E-20	E-2D P04			Normal		
192	2.168.3.80	E-16	5D E100			Normal		
192	2,168.3.81	E-50	DEL-1 (E07)			Normal		
192	2.168.3.82	E-20	DB E08			Normal		
192	2.168.3.83	E-50	E-5D E01			Normal		
98.	27.170.240	Rem	Remote E-5D			Polling Fa	ailed	
Alerts								
Ser	nsor	Sensor		Sensor Type≑	Device Name≑	- 22	st Updated	

Figure 64- Screenshot from an iPad

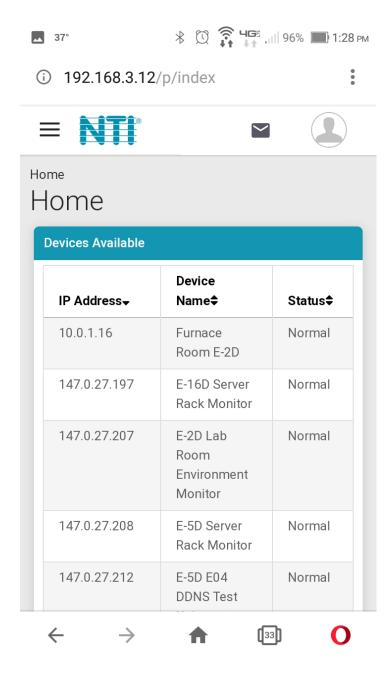


Figure 65- Screenshot from a smartphone

UNINSTALL THE PROGRAM

To uninstall the program: Go to the appropriate programs settings page (i.e. Control Panel -> Programs and Features) and select the "ENVIROMUX Management Software" to uninstall.

Note: Uninstalling the program will also remove any settings and saved sensor values. The license will remain (the license is not transferable)

SOFTWARE UPDATE

From time to time a new version of this program will be available. If you decide to update, follow these steps.

1. Download the new software version to the computer/server the E-MNG-SH is installed on.

2. Shut down the E-MNG software if running on this computer/server.

3. Double-click on the new installation file to install. Once the update has completed, it will prompt for login from the default browser.

Login to the E-MNG-SH and verify that the update has worked. Cick on "About" in the side menu, then click "About ENVIROMUX Management Software". The version number shown there will indicate what version you are running. The Updates section will get refreshed after the next update check.

Monitor	About ENVIROMUX Managemen Software
Devices	About
Settings	Install ID: 8BE4A025003FD262A573BE5B1EB56F1D Startup Time: 20-Apr-21 12:38:56 PM
About -	License: Activated: E-MNG-SH Version: 0.9.2.8
About ENVIROMUX Management Software	Install Date: 19-Feb-21 11:06:30 AM Installed On: PAUL.DOM2:80
User Manual	Log Level: INFO Architecture: x64
Downloads	Language: English
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