ENVIROMUX® Series

E-MNG-SH
Enterprise Environment Monitoring System
Self-Hosted Management Software

Server Room Temperature

Server Rack Main Voltage
118.7 V
Normal
Last Updated: now
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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.
  - 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, 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.
  - 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.

Software Requirements:

- 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.
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.

Request Server Software Evaluation
(Requires ENVIROMUX unit)

View Online Demo
(Does NOT require ENVIROMUX unit)

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.x_x86.exe.
- For a 64 bit computer/server install ENVIROMUX-Management-Software-Installer_Vx.x.x.x_x64.exe

![Figure 2- Locate the installation file on your local hard drive](image)

Click to "Agree".

![Figure 3- Agree to terms](image)

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".

![Figure 4- Create Admin login account](image)
You will be prompted for a license key. To request a license key, contact NTI. 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".

The server needs to have access to the internet for license activation and trial activation. Offline activation is not supported in this version.

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.

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 9.

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.

While in the Application Settings page, check to make sure all of the details for operating the E-MNG-SH are as desired.
## Application Settings

<table>
<thead>
<tr>
<th>Application Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language</strong></td>
<td>Only English is available at this time</td>
</tr>
<tr>
<td><strong>Device Poll Rate</strong></td>
<td>Delay time between polling data for each sensor attached to each Device, measured in milliseconds (Min. is 1000)</td>
</tr>
<tr>
<td><strong>Server Host Name</strong></td>
<td>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)</td>
</tr>
<tr>
<td><strong>Enable Above Host Name</strong></td>
<td>Enable the Host Name assigned to the Server - restricting access to the Server by using the Host Name only.</td>
</tr>
<tr>
<td><strong>HTTP Port</strong></td>
<td>Port on which the Server will be connected with. This is the default HTTP port. If you change this, you will need to add &quot;:&lt;port#&gt;&quot; to the end of the IP address. I.e. If you change it to 85, you will need to enter &lt;IP ADDRESS&gt;:85 in the URL bar to access the Server.</td>
</tr>
<tr>
<td><strong>Date Format</strong></td>
<td>Format of how the date will be displayed in the Software - six to choose from</td>
</tr>
<tr>
<td><strong>Time Format</strong></td>
<td>Format of how the time will be displayed in the Software - four to choose from</td>
</tr>
<tr>
<td><strong>System Log Roll Period</strong></td>
<td>System Logs will be rolled as often as set here - Hourly, Daily, Weekly, Monthly, Quarterly or Yearly</td>
</tr>
<tr>
<td><strong>Number of System Logs to Store</strong></td>
<td>Number of system logs to store on disk - There is no limit.</td>
</tr>
<tr>
<td><strong>System Log Level</strong></td>
<td>Select the types of messages that will be logged in the system.log file on Software (see below)</td>
</tr>
<tr>
<td><strong>Send Anonymous Usage Stats</strong></td>
<td>Place a checkmark if you approve of sending anonymous usage reports to NTI to help improve this Software</td>
</tr>
<tr>
<td><strong>Upload Crash Reports</strong></td>
<td>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</td>
</tr>
</tbody>
</table>
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

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 case the FQDN set is incorrect and access is restricted to this FQDN (as set in “Enable 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 this changes and close the file. Restart E-MNG-SH now and you should be able to login with correct host name.
NTI E-MNG-SH Self-Hosted Enterprise Environment Monitoring System Management Software

ADDING USERS

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.

Figure 9- 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 provide on the E-MNG-SH. No changes can be made.

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

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.

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.

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

Figure 10- Edit user settings
Under Devices, in the menu, there are three options to select. The first page displays all the Devices you have configured to be monitored and the groups you have established for the management of those Devices.

**Figure 11- My Devices List**

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

**Figure 12- My Sensors List**
Lastly there is a page for adding more Devices to be monitored and adding groups to put the Devices into for management of how the sensors and Devices will be monitored. From this page they can also quickly be removed from the list.

![Add or Remove Devices](image)

**Figure 13- Add or Remove Devices**

**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 below.

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 15) to identify them (provided they are all connected to the same LAN).*
Figure 14- 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.
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, first select the Device in the group to remove it from, then click "Delete Device".

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 15) 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.

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.
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**
  - **To Change A Device's Settings**, within the row of the device whose settings 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.

  **To Stop the LEDs of the unit blinking**, press the Blinking... button. The Blinking... button will change to a Blink LED button.

![Figure 21- Device Discovery Tool page](image)

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.
VIEW SENSORS INDIVIDUALLY

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

Figure 22- 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 23- 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 associated with the sensor.

![Figure 24- Use Search Sensors box](image)

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

![Figure 25- Sensors, relays, IP Cameras etc attached to a specific Device](image)
If you click once on a specific sensor category, the screen format will change and show the status of all sensors in that category.

![Figure 26- External Sensors connected to specific Device](image)

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 27- Initial Monitoring Dashboard menu](image)

Each Dashboard will be listed and selectable for independent viewing from the Monitor 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.

Figure 28- 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.

Figure 29- 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 22).

Figure 30- 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.

**Figure 31- Select sensors to view**

**Figure 32- Multiple types of views available**
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.
To delete a window in a column, click the red “X” in the upper right corner of the window.

If you wish to change the order in which your sensors are viewed, you can move a window from one column to another. First add the column if it doesn’t already exist, then simply drag the window by holding the window header bar to the target column. While dropping to the target column, that column will show a white placeholder indicating that the window can be dropped there.

Use the Increase button to increase the width of a selected column.

Use the Decrease button to decrease the width of a selected 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.

Figure 37- Add a new row of sensors

To logout of the server without shutting the Server down, click on the Root icon in the upper right corner of the screen, and click on "Log Out".

Message number (image right) indicates the number of alerts triggered since the last alert was viewed or acknowledged by this user.

Figure 38- Log out
NTI E-MNG-SH Self-Hosted Enterprise Environment Monitoring System Management Software

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 39- Dashboard setup to display specific content

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

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 40- Enable full screen view
The E-MNG-SH will keep a list of events that occur with each Device it is monitoring. Sensor Events, Smart Alerts and Alert messages are 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.

**Figure 41- Events Log**

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

**Figure 43- View and connect directly with sensor through the Dashboard**

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

**Figure 44- Acknowledge or Dismiss alert pop-up**
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 to 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.

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

1. left click tray icon

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

2. right click program icon

3. click "Exit"

Figure 46- Click on Tray icon

Figure 47- 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).

Figure 48- Screenshot from an iPad
### Devices Available

<table>
<thead>
<tr>
<th>IP Address</th>
<th>Device Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0.1.16</td>
<td>Furnace Room E-2D</td>
<td>Normal</td>
</tr>
<tr>
<td>147.0.27.197</td>
<td>E-16D Server Rack Monitor</td>
<td>Normal</td>
</tr>
<tr>
<td>147.0.27.207</td>
<td>E-2D Lab Room Environment Monitor</td>
<td>Normal</td>
</tr>
<tr>
<td>147.0.27.208</td>
<td>E-5D Server Rack Monitor</td>
<td>Normal</td>
</tr>
<tr>
<td>147.0.27.212</td>
<td>E-5D E04 DDNS Test</td>
<td>Normal</td>
</tr>
</tbody>
</table>

*Figure 49- 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. Click 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.
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