

# PRODUCT UPDATE BULLETIN

PUB-BAS-25-041

August 28, 2025



## OPENBAS SYSTEM DESIGN STUDIO

Mircom is releasing upgraded Configurator software.  
The new version number follows –

CONFIGURATOR SOFTWARE	COMPATIBLE CONTROLLERS	VERSION
System Design Studio	All OpenBAS NX controllers, OpenBAS-HV-LEARN and OpenBAS-NWK-ETH3	2.1.0

## OPENBAS FIRMWARE

Mircom is releasing upgraded firmware.  
The new version number follows –

FIRMWARE	VERSION
All OpenBAS NX controllers, OpenBAS-HV-LEARN and OpenBAS-NWK-ETH3	3.18.0

*Note: Please read this **entire document** before upgrading systems to ensure all compatibility issues are addressed and to ensure correct upgrade procedures are followed.*

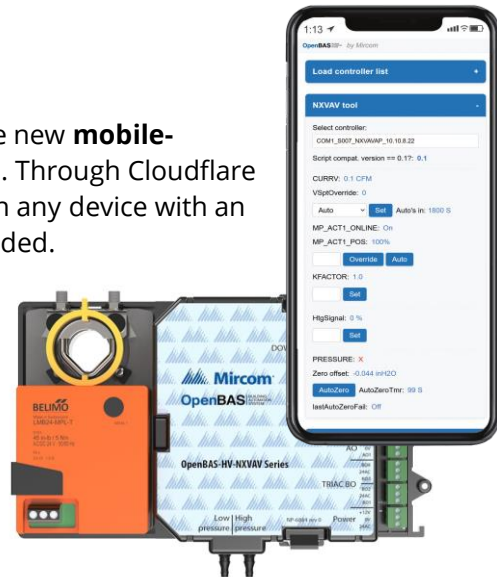
## TL;DR

- **New OpenBAS-HV-NXVAV Series Controller Support**
- **OpenBAS MiPages for AI (Beta): Easily Create Real-Time Custom Dashboards With AI Assistance**
- **Seamless, Secure Remote Access**
- **Expand Your Integration Capabilities with IP Remote Points**
- **Troubleshoot and Fine-Tune Communications with Confidence**

# New Feature Highlights

## New OpenBAS-HV-NXVAV Series Controller Support:

- Empower subcontractors to balance VAV airflows with the new **mobile-friendly NXVAV Tool**, hosted on an OpenBAS-NWK-ETH3. Through Cloudflare tunnel support, integrators can make the tool available on any device with an internet connection, no apps or OpenBAS experience needed.
- Accelerate commissioning with automatic discovery, MP Remote points, and software-based addressing for all **Belimo MP devices**.
- Maintain long-term reliability with **manual or scheduled pressure auto zeroing** for accurate VAV control.
- All new Belimo MP and pressure features **fully supported in script**



## OpenBAS MiPages for AI (Beta): Easily Create Real-Time Custom Dashboards With AI Assistance:

Vibe code your way to custom, real-time dashboards and graphical control pages using simple HTML and an intuitive data-attribute notation. OpenBAS MiPages for AI is optimized for your favourite AI tools. Enjoy live data updates and direct communication with any OpenBAS controller, with no extra software or licenses required.

### Image prompt example (Gemini 2.5 Flash):

Based on the attached hand drawing, create a high quality, professional looking 3D graphical representation of an Air Handling Unit (AHU). The graphic should be a side view of a cross section of the AHU.

As detailed in the hand drawing, there should be the following elements:

rectangular ducts forming a sideways "H" (light grey with 3D shadows)

3x dampers (use the same icon for all 3)

1x heating coil (show in red)

1x cooling coil (show in blue)

1x fan

1x return air temp sensor probe

1x supply air temp sensor probe

1x static air pressure sensor probe (supply)

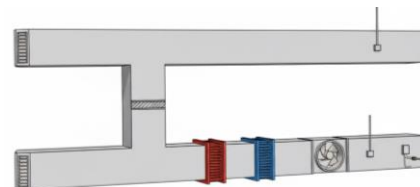
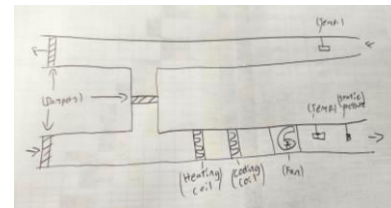
All text and arrows in the drawing are for reference only. Do not include any text in the graphic.

Use realistic icons for each element.

Do not include any extra elements.

All elements should be in the locations shown in the hand drawing.

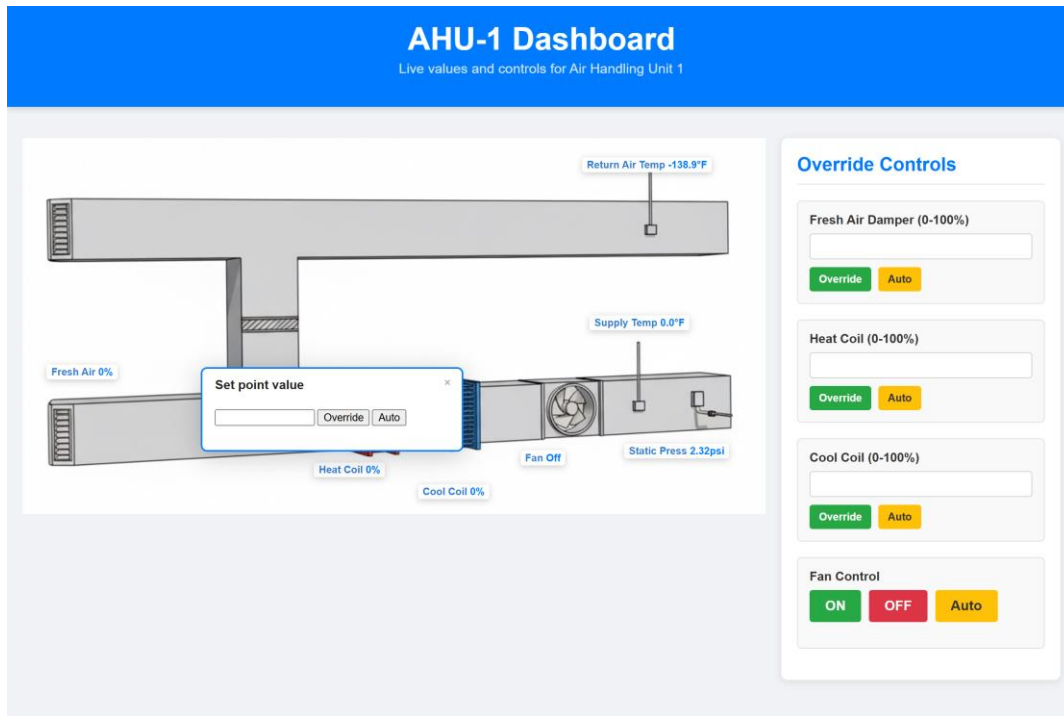
The background can be pure white.



## MiPage prompt example (Gemini 2.5 Flash – attach MiPage markdown doc, image and points list):

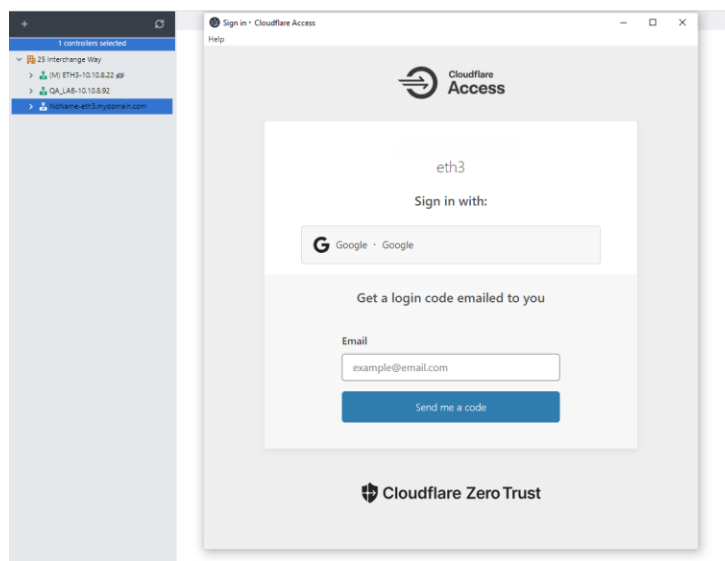
Following the attached MiPages for AI documentation, create a webpage with the attached AHU image as the main focus. Analyze the image and for each element you find, overlay the appropriate point label and value. Use ETH3 com1 slave 6 for all points. Note that regarding airflow, the top right is the return air, top left exhaust, bottom left is fresh air, and bottom right is supply air.

Do your best to place the elements, but make sure they do not overlap. I will fine-tune the locations.  
Make the page look modern and add common sections (specs/title/nav bar etc) you would expect from a BAS interface.



## Seamless, Secure Remote Access:

Monitor and configure controllers remotely to reduce costly site visits and streamline support. Simply purchase a domain through Cloudflare and install the lightweight Cloudflare daemon on a local, always-on workstation or server. Once set up, technicians can securely access their OpenBAS controllers from any browser, anywhere, without VPNs or special software.



## Expand Your Integration Capabilities with IP Remote Points:

With enhanced BACnet/IP and Modbus/TCP integration on the OpenBAS-NWK-ETH3, you can bring in 250 points from up to 20 IP devices. Whether through SDS or script, integrate third-party systems effortlessly and communicate directly between ETH3 controllers and other downstream devices. No extra gateways required.

Socket	Protocol	IP address	Port	Network	Address
1	BACnet/IP	1.2.3.1	47808	<input type="checkbox"/> 0	1
2	Modbus/TCP	1.2.3.1	502	<input type="checkbox"/> 0	1
3	BACnet/IP	1.2.3.2	47808	<input type="checkbox"/> 0	1
4	Modbus/TCP	1.2.3.2	502	<input type="checkbox"/> 0	1
5	BACnet/IP	1.2.3.3	47808	<input type="checkbox"/> 0	1
6	Modbus/TCP	1.2.3.3	502	<input type="checkbox"/> 0	1
7	BACnet/IP	1.2.3.4	47808	<input type="checkbox"/> 0	1
8	Modbus/TCP	1.2.3.4	502	<input type="checkbox"/> 0	1
9	BACnet/IP	1.2.3.5	47808	<input checked="" type="checkbox"/> 0	1
10	Modbus/TCP	1.2.3.5	502	<input type="checkbox"/> 0	1

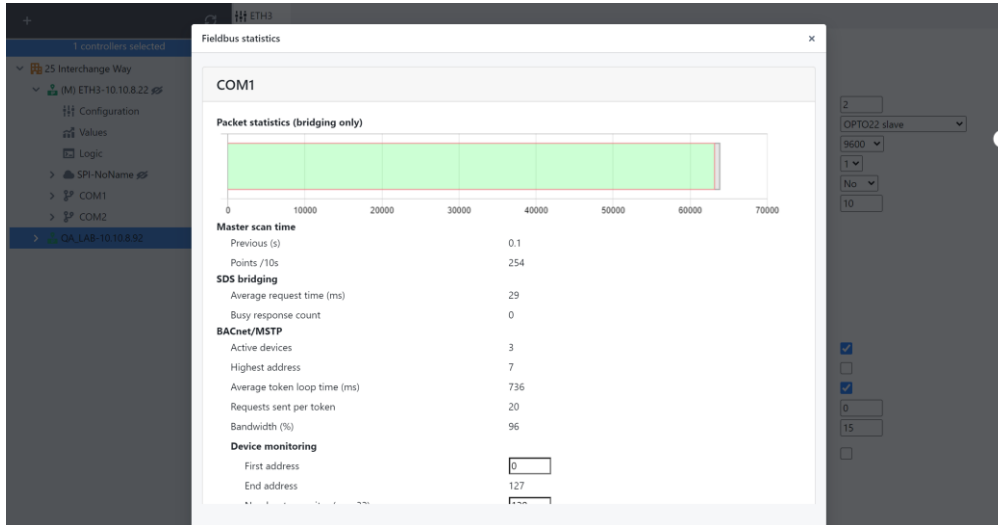
### Sockets (IP Devices)

Point	Count	Socket	Name	Object type	Channel	Status	Present V...	Override
IP_RMT_1	1	1(B) 1.2.3.1:47808	SPL_NX_BO_1	Binary value (NX)	101	Unreliable	0	9 Override Auto
IP_RMT_2	3	2(M) 1.2.3.1:502 Addr:0	SPL_NX_AI_1	Holding register UINT16 AB CD-[EF GH]	101 400101	Unreliable	9	Override
IP_RMT_3	255	2(M) 1.2.3.1:502 Addr:0	SPL_NX_AI_2	Holding register UINT16 AB CD-[EF GH]	102 400102	Unreliable	7	Override
IP_RMT_4	255	2(M) 1.2.3.1:502 Addr:0	SPL_NX_AI_3	Holding register UINT16 AB CD-[EF GH]	103 400103	Unreliable	5	Override
IP_RMT_5	1	2(M) 1.2.3.1:502 Addr:0	SPL_NX_AO_1	Holding register UINT16 AB CD-[EF GH]	1 400001	Unreliable	15	Override
IP_RMT_6	1	1(B) 1.2.3.1:47808	ETH3_ADF_1	Analog value (NX)	1101	Unreliable	111	9 Override Auto
IP_RMT_7	1	1(B) 1.2.3.1:47808	ETH3_ADF_2	Analog value (NX)	1102	Unreliable	222	9 Override Auto
IP_RMT_8	1	1(B) 1.2.3.1:47808	ETH3_ADF_3	Analog value (NX)	1103	Unreliable	333	9 Override Auto
IP_RMT_9	1	1(B) 1.2.3.1:47808	ETH3_ADF_4	Analog value (NX)	1104	Unreliable	444	9 Override Auto
IP_RMT_10	1	1(B) 1.2.3.1:47808	ETH3_ADF_5	Analog value (NX)	1105	Unreliable	555	9 Override Auto

### IP Remote points

## Troubleshoot and Fine-Tune Communications with Confidence:

Get powerful insights into your OpenBAS-NWK-ETH3 fieldbus networks. Expanded diagnostics bring **real-time packet statistics, device monitoring, and advanced BACnet/MSTP debugging** right to your fingertips. Instantly view active devices, bandwidth utilization, token loop times, request rates, and more, all in one dashboard. Pinpoint and resolve network issues, optimize traffic, and take the guesswork out of troubleshooting so your building automation systems always run at peak performance.



## Additional New Features

### Quick Onsite Data Collection:

OpenBAS-NWK-ETH3 can now trend samples of its internal points or SPI-connected OpenBAS-HV-NX10 series controller points, directly to an attached USB flash memory, streamlining data gathering for analysis and support.

### Expanded Modbus Flexibility:

- NX and ETH3 Modbus masters can now issue either Write Single or Write Multiple functions for Holding Registers and Coils.
- ETH3 Modbus slaves can now treat Write Single/Multiple Coil functions as Set or Override.
- ETH3 Modbus masters now have a configurable response timeout and polling delay for optimizing communication performance.
- ETH3 COM1 or COM2 can now be used to record up to 2500 Modbus packets at a time to an attached USB flash memory.

### Streamlined Script Management:

- **Remove and archive:** This new controller option replaces the old "delete" behaviour. Scripts are now safely archived to a folder on your PC, reducing accidental loss and making recovery or future reference easy.
- **Force Save Scripts:** When a controller's script is not backed up because it was configured from script over USB or outside of an SDS project, "Force Save Scripts" lets technicians manually back up the configuration script to the main ETH3. This ensures critical setups are preserved on the Main ETH3's USB flash memory, even when working with legacy or non-standard workflows.

## Compatibility Chart

Below table shows the System Design Studio compatibility with OpenBAS hardware.

SYSTEM DESIGN STUDIO	SUPPORTED CONTROLLERS	FIRMWARE VERSION MINIMUM	FIRMWARE VERSION SUPPORTED
<b>2.1.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.15.5+	3.18.0+
	OpenBAS-NWK-ETH3	3.17.0+	3.18.0+
<b>2.0.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.15.5+	3.17.0+
	OpenBAS-NWK-ETH3	3.17.0+	3.17.0+
<b>1.3.3</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN, OpenBAS-NWK-ETH3	3.15.5+	3.16.3+
<b>1.3.2</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN, OpenBAS-NWK-ETH3	3.15.5+	3.16.1+
<b>1.3.1</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN, OpenBAS-NWK-ETH3	3.15.5+	3.15.5+
<b>1.3.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN, OpenBAS-NWK-ETH3	3.15.1+	3.15.1+
<b>1.2.1</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.04.0+	3.09.4+
	OpenBAS-NWK-ETH3	3.06.0+	3.09.4+
<b>1.2.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.04.0+	3.09.0+
	OpenBAS-NWK-ETH3	3.06.0+	3.09.0+
<b>1.1.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.04.0+	3.04.0+
	OpenBAS-NWK-ETH3	3.06.0+	3.06.0+
<b>1.0.2</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.04.0+	3.04.0+
<b>1.0.1</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.04.0+	3.04.0+
<b>1.0.0</b>	All "NX" controllers (OpenBAS-xx-NXxxxx), OpenBAS-HV-LEARN	3.0.0+	3.0.0+

## Other

While the new firmware is being released on the web site, shipped products may continue to have the existing firmware (See LT-6630 – Driver installation and Firmware Upgrade Procedures) , as the existing

stock is depleted. Installers are encouraged to update new installations but are free to keep existing systems running at a previous version if they are simply replacing defective parts. Mircom strives to offer the highest quality products and services. On occasion, an issue may require field action and we regret when these issues arise. As part of our commitment to quality, we incorporate any findings into a continuous improvement process to better serve our customers in the future. As part of our support offering, please feel free to contact us with any inquiries or assistance you may require. If you have any questions or concerns, please visit the Mircom Technical Support Forum at <https://mircom.com/technical-support/> or contact the Technical Support Department directly.

## **Did You Know?**

You can download OpenBAS software:

<https://mircom.com/technical-support/documents-firmware-software-downloads/openbas-downloads/>

We have FAQ's (Frequently Asked Questions) to troubleshoot our products:

<https://mircom.com/technical-support/mircom-frequently-asked-questions/>

## **We Want Your Feedback**

We are always looking for your feedback on our Products and Solutions.

- Suggestions, Ideas, Needs, Problems
- Project Wins & Losses
- Case Studies & Installation Photos
- Sales & Marketing Tools
- Anything else that help our business grow together

If you have any questions or comments, please contact us directly at: [pm@mircomgroup.com](mailto:pm@mircomgroup.com)