

What's New at Davicom

ALT-NAB 2020 webinar

CORRTEX









John Ahern President











- Introduction
- New Hardware
- New Firmware Functionalities
- New Main & Backup Controller
- New Davicom EXchange (DEX) support portal



New Hardware

Digital Temperature Probe Interface with SNMP (DTPI)



- 4 input channels
- 5 to 9VDC supply
- Display in °Fahrenheit or °Celsius
- -55° to 125°C range for probes
- Interfaces directly to Davicom RTU's through SNMP
- Can be used independently from Davicom RTU's
- 4 x 3-digit LED displays
- Open MIB for use with other SNMP managers





- 4-channels for One-Wire Digital Temperature probes
- Advantages over "analog" temperature sensors:
 - Require no calibration
 - Operate over cable lengths up to 30m
 - RF immunity



- Invented by Dallas Semiconductor, now property of Maxim, the DS18B20 digital thermometer provides 9-bit to 12-bit Celsius temperature measurements.
- The DS18B20 communicates over a 1-Wire bus that by definition requires only one data line (and ground) for communication with a central microprocessor.
- In addition, the DS18B20 can derive power directly from the data line ("parasite power"), eliminating the need for an external power supply.
- Each DS18B20 has a unique 64-bit serial code, which allows multiple DS18B20s to function on the same 1-Wire bus.

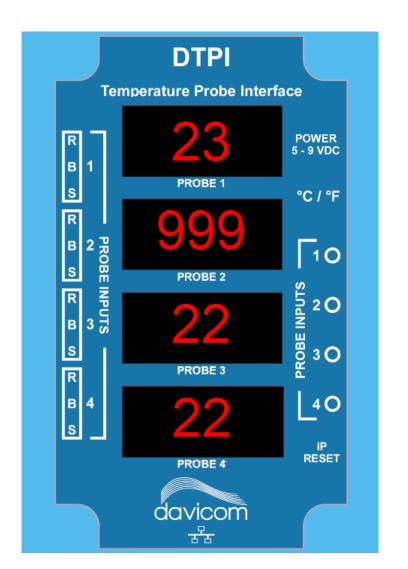












Cortex360 Live unit

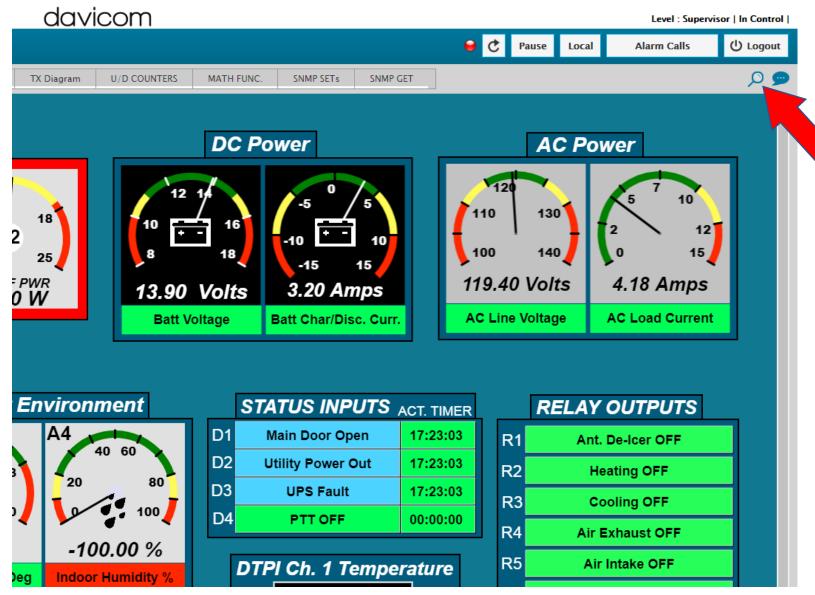


New Firmware Functionalities

- I/O Finder
- Up/Down counters
- Recordable audio files
- Inter-user online chat
- Signal averaging
- HDMI & Webview displays
- Direct SNMP MIB file download
- SNMP Devices
- MIB Browser (coming soon)



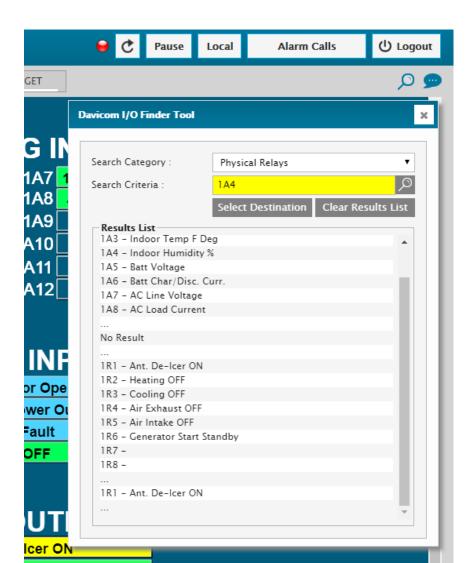
I/O Finder





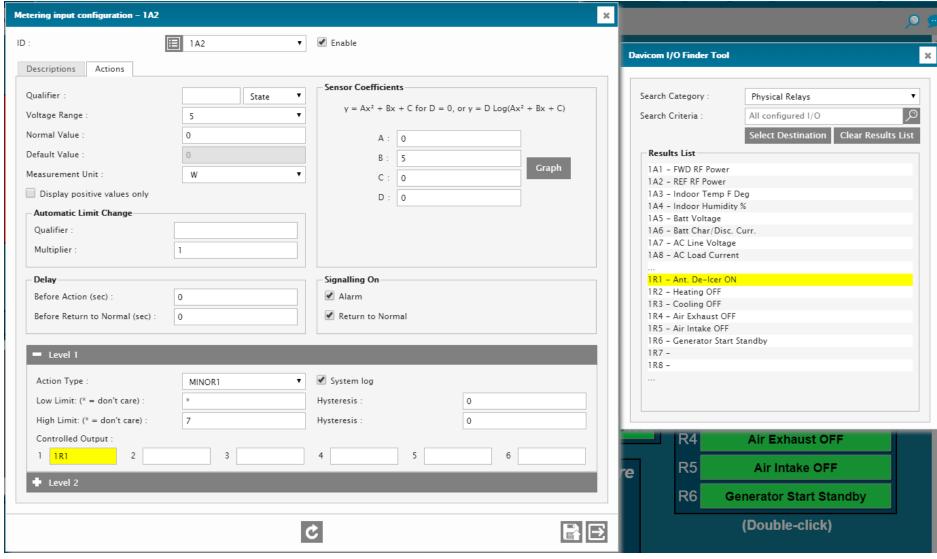
I/O Finder

Makes finding specific or available I/O points easier





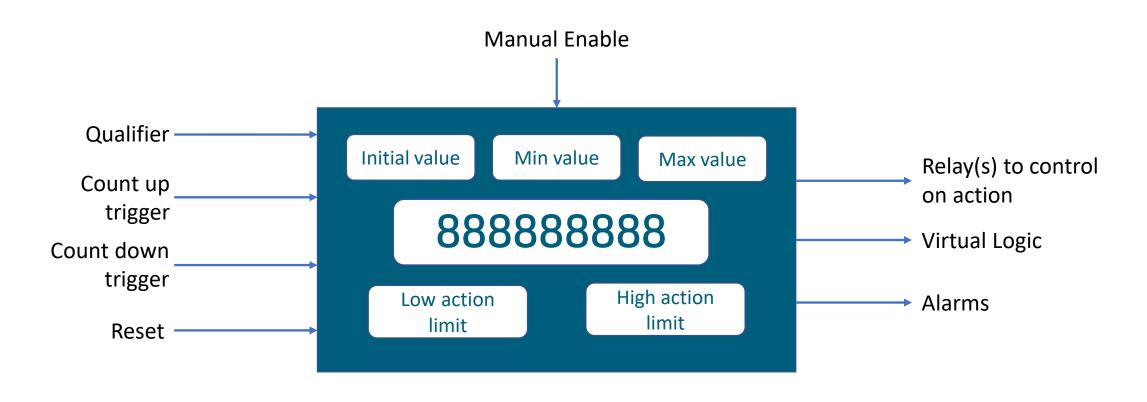
I/O Finder





Up/Down Counter

Makes event count-tracking easier



Cortex320: 16 counters Cortex360: 32 counters



Up/Down Counter

C	Counter Configuration – 1CT1	LID / DOW	N COUNTED	×		
	ID :	1СТ1	▼	~		
Į	Descriptions Actions					
	Action Type :	CMD	▼ System log			
	Qualifier :	State	▼ Count Up Trigger :	1D01		
ш	Maximum Value :	10	Count Down Trigger :	1D02		
4	Minimum Value :	2	Reset Trigger :	1D03		
	Initial Value :	5		Reset		
	Controlled Output 1 2 3 4 5 6					
	Action Limits Signalling On					
	High Limit: (* = don't care) :	9	✓ Alarm			
	Low Limit: (* = don't care) :	3	Return to Normal			
			C			
2			1CT28			
ī						



Customizable messages for your specific needs

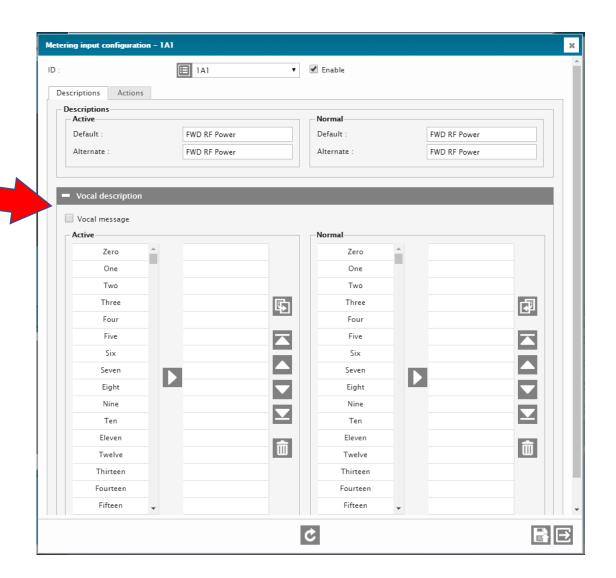




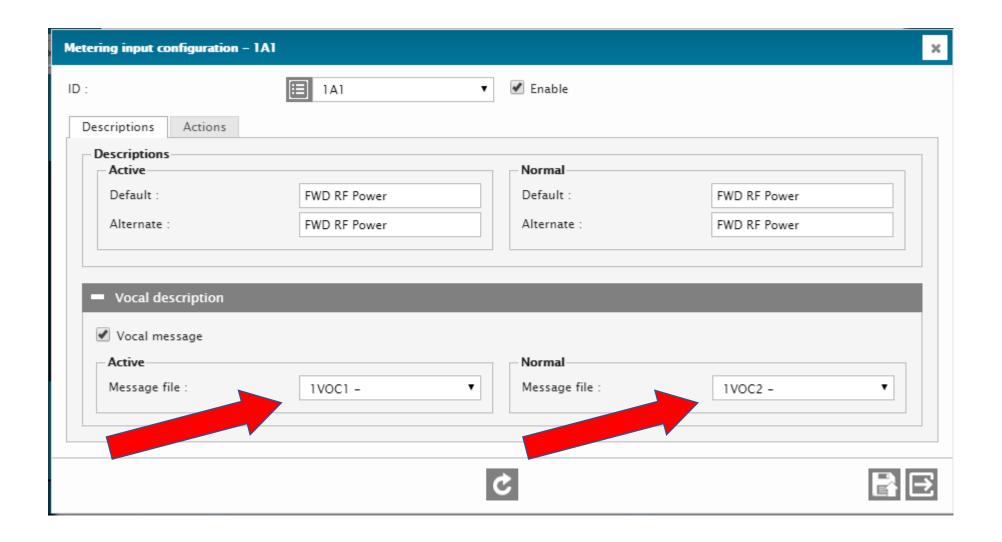


The required file format is WAV or MP3





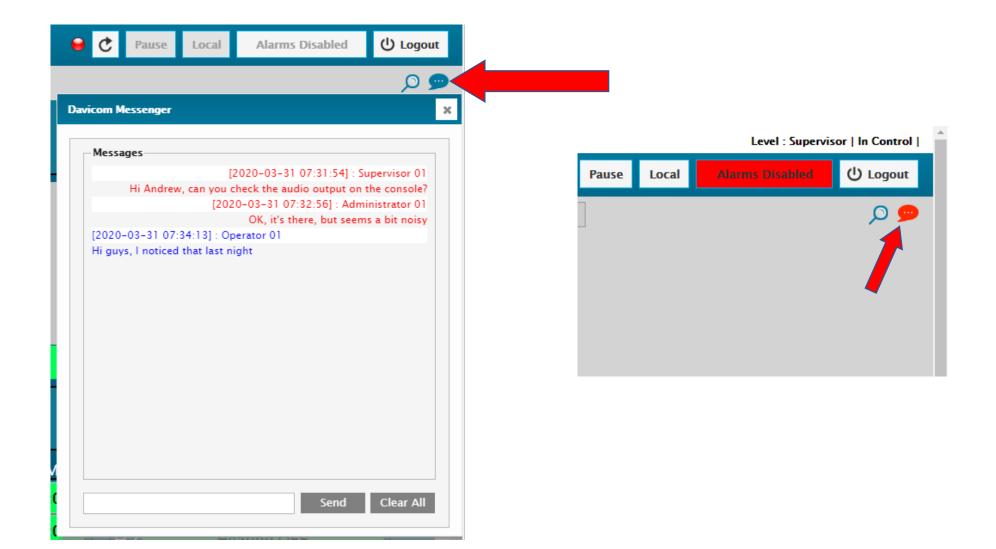






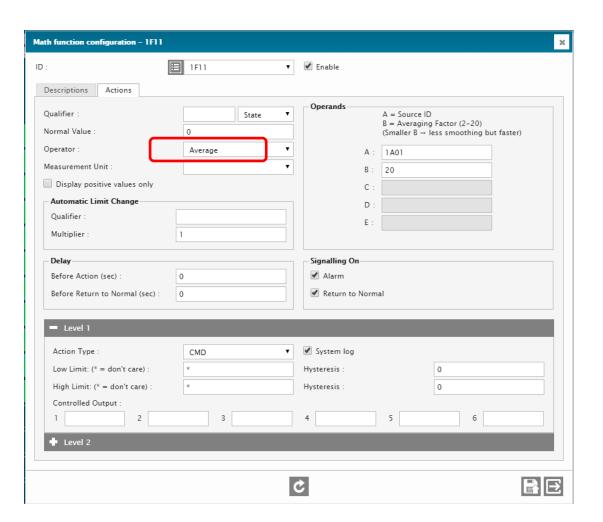
On-Line Chat Function

Gives you another option for site communications

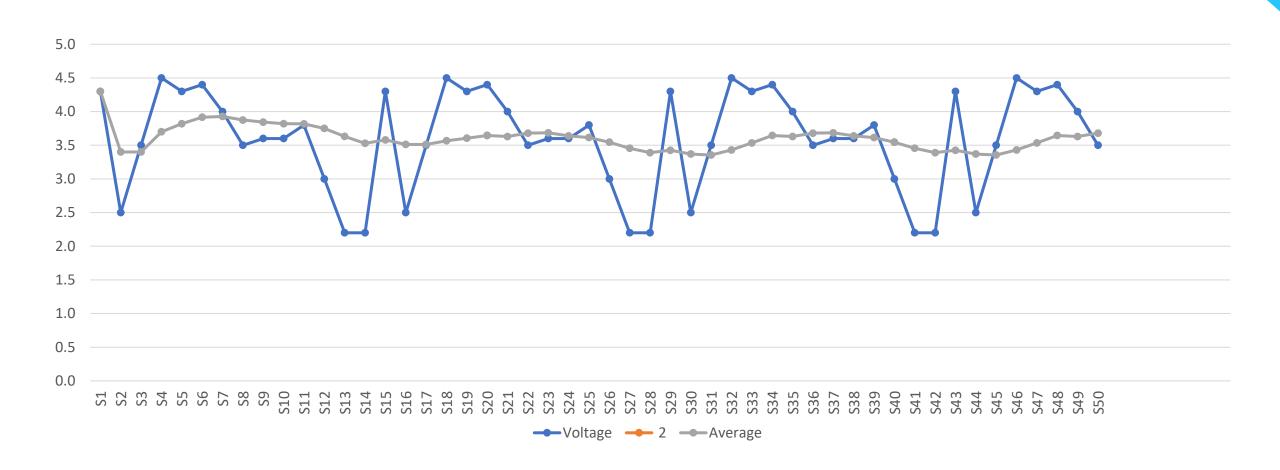




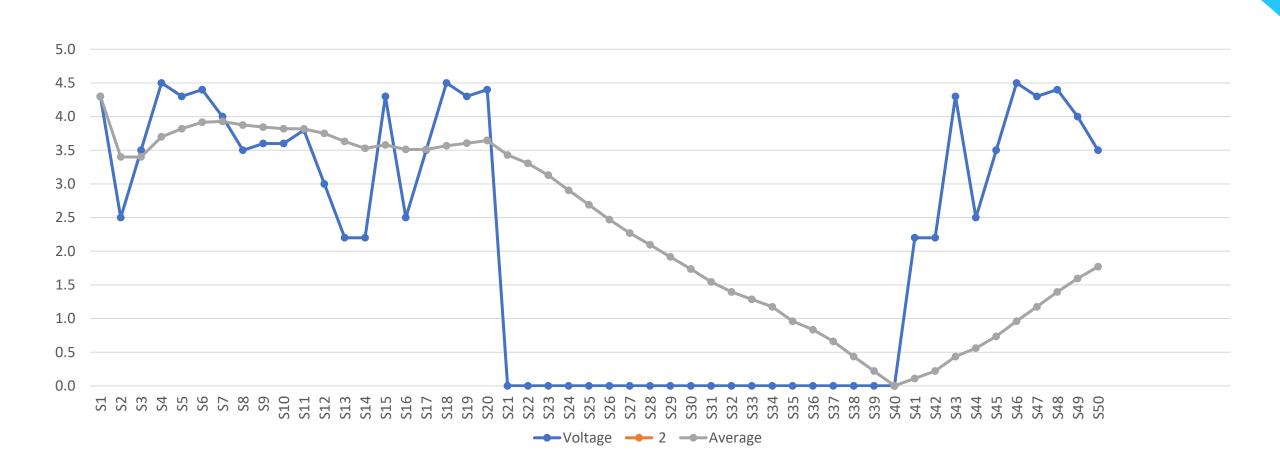
Reduces noise and false alarms



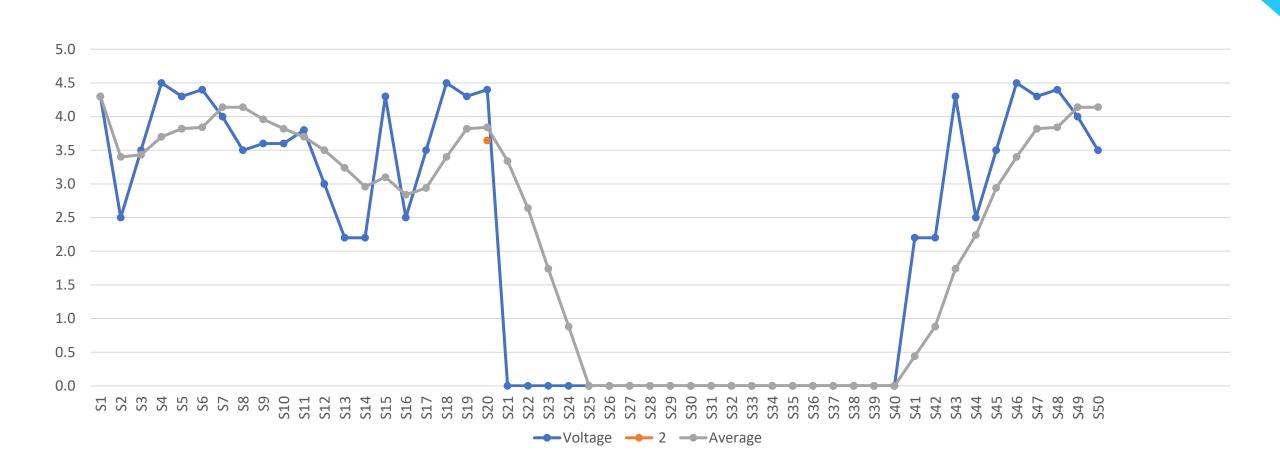




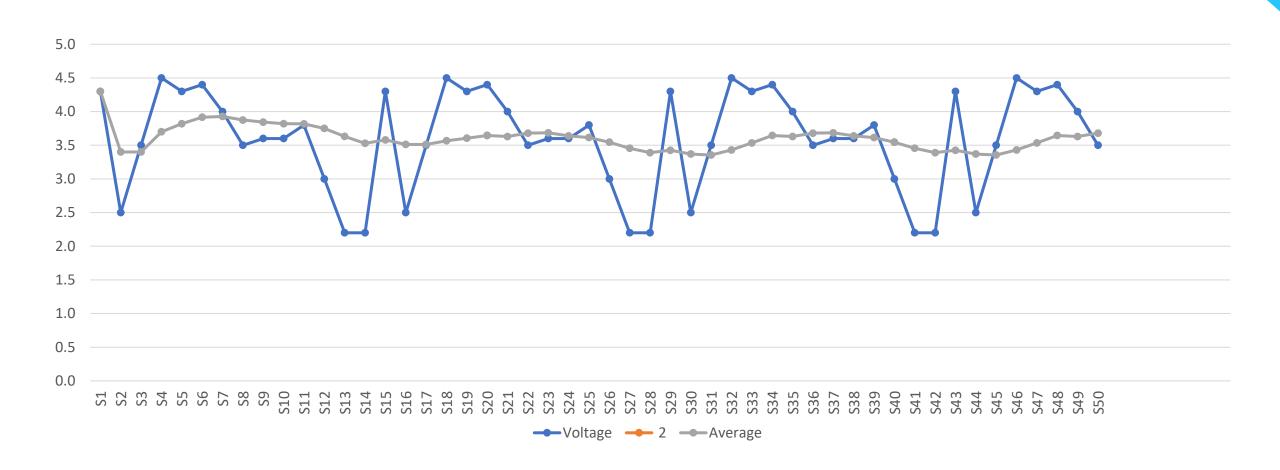










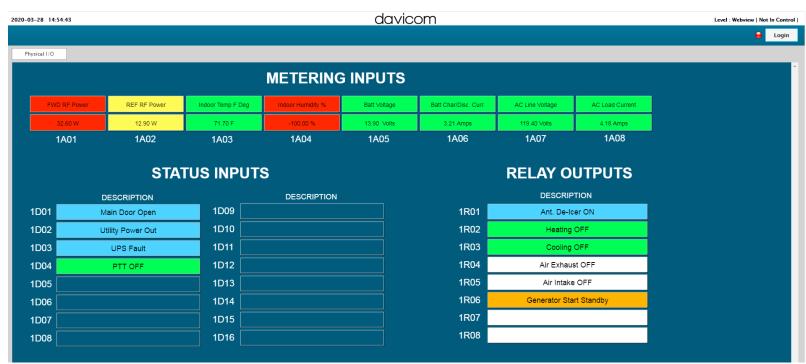




HDMI User & Webview

Special views for special requirements

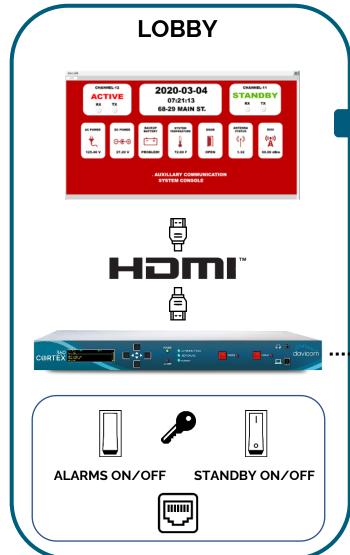
- HDMI User is a special user and workspace that outputs only on the rear-panel HDMI connector. Applications are for local alarm display panels, on-site in-rack monitoring (small digital video screen) etc.
- WebView is essentially the same, but can be accessed via an address similar to https://172.16.203.39/webview.html without needing to log-in.





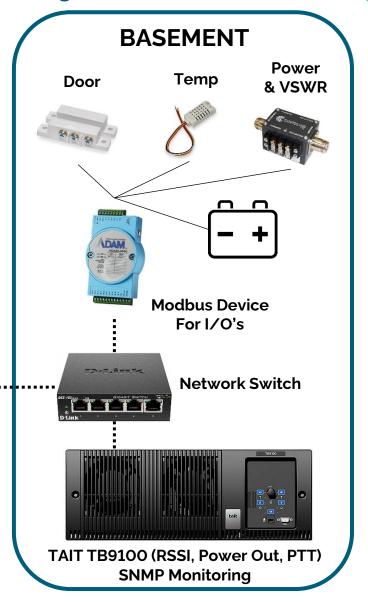
Application Example

HDMI Display for NFPA 1221 BDA Monitoring





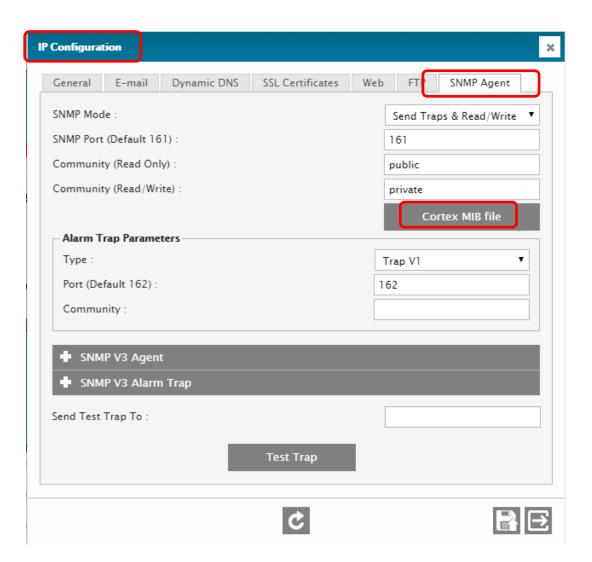
Dedicated IP Connection (Modbus & SNMP)





Direct SNMP MIB File Download

Easier access to this important information

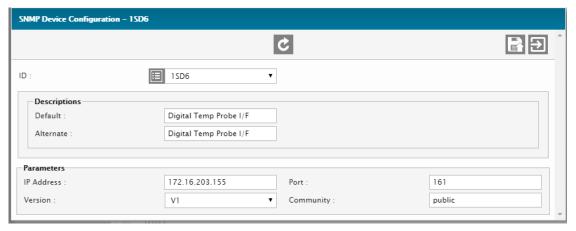




SNMP Devices

Easier configuration of SNMP devices

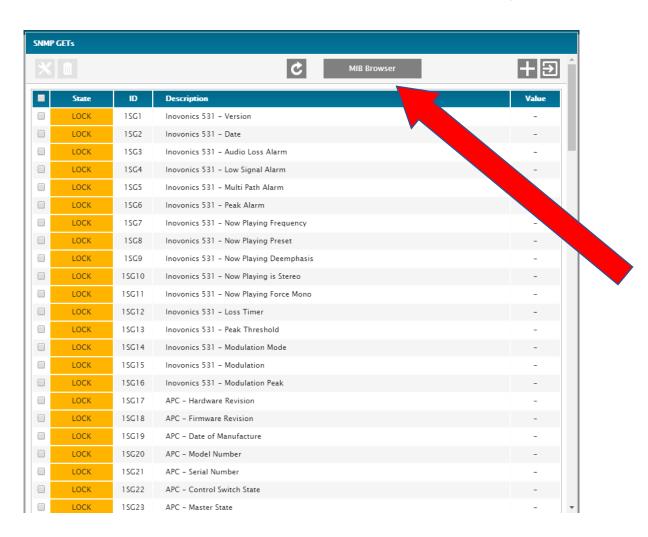
SNMI	P Devices			
×	Î		C	+3
	ID	Description		
	1SD1	Inovonics 531		
	1SD2	APC Power Bar		
	1SD3	DV-MINI		
	1SD4	Web Relay		
	1SD5	Cortex 360		
•	1SD6	Digital Temp Probe I/F		
	1SD7			
	1SD8			
	1SD9			
	1SD10			
	1SD11			





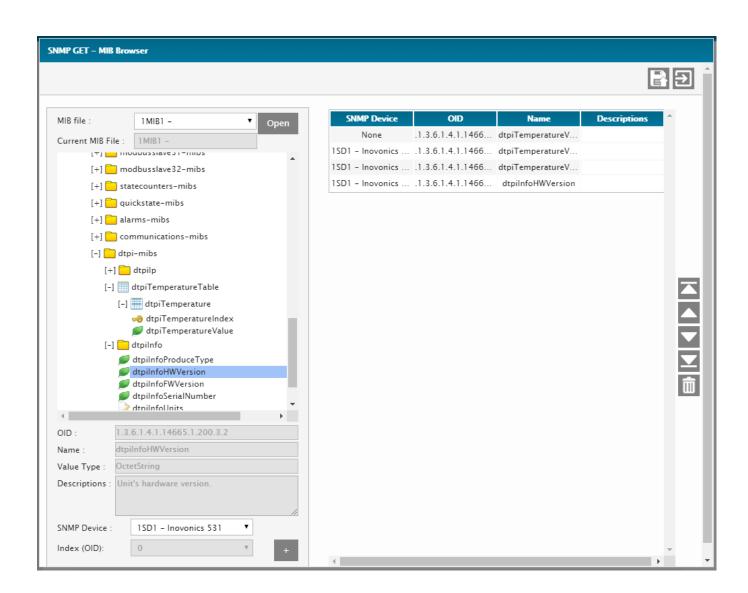
SNMP MIB Browser (*alpha version firmware only*)

Quicker access to SNMP OID's for easier configuration



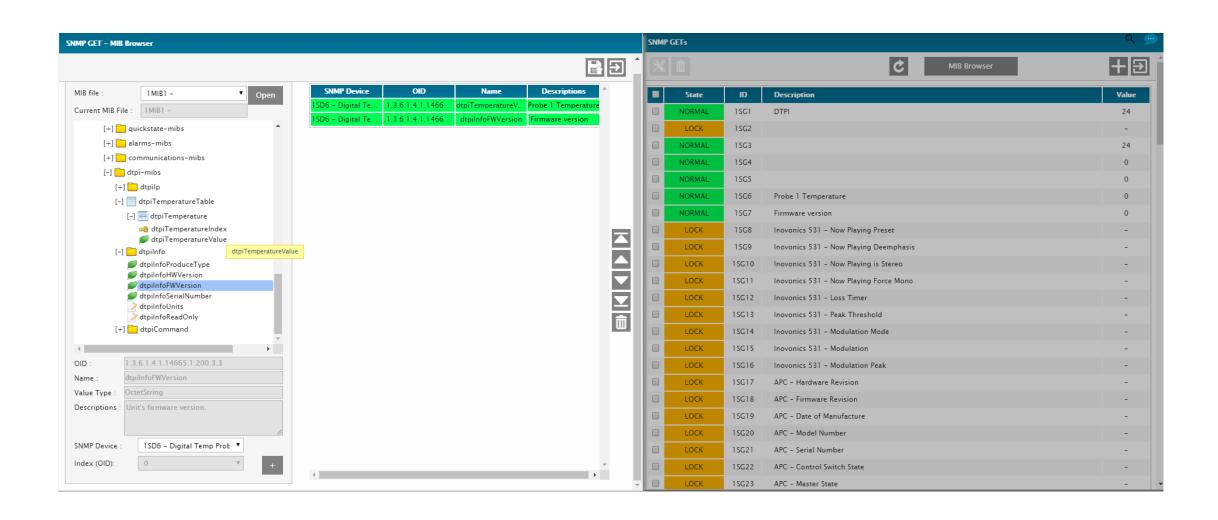


SNMP MIB Browser



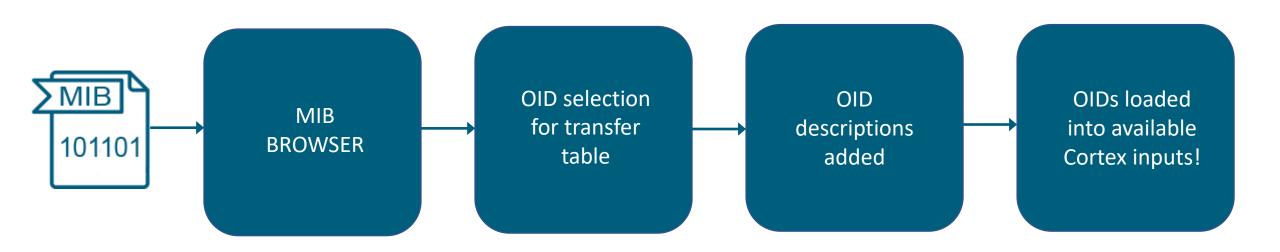


SNMP MIB Browser





SNMP MIB Browser Usage





- Dedicated configuration and GUI for Nautel Main & Backup (Aux) control.
- Based on Davicom's Cortex 320 product, the M&A controller is a plug and play solution for main and backup control. In addition, the system provides monitoring and alarming capabilities for both transmitters.
- The Graphical User Interface provides **instant visibility of system status and switchover progress** while allowing safe manual control, if required.
- Switchover can occur in as little as 2 seconds, if the interlocks and RF switch respond adequately.
- Interfacing to the transmitters and switches is achieved via metering and status inputs as well as relay outputs.
- SNMP control and monitoring is also optionally available for transmitters having such capabilities.











Sequence steps Sequence Steps
☐ Problem detected in Main TX (low RF power, no response to ping, no audio)
☐ Shut-down main TX
☐ Check to ensure both TX's are off
☐ Switch Main TX to RF load and Backup TX to antenna
☐ Validate position of Baseball switch
☐ Turn Backup TX RF power ON
Keep checking rest of conditions in real-time and wait for manual Return To Normal command.
Features Features
Automatic, Manual, Maintenance & Test modes
Continuous health monitoring of both main and backup transmitters
Backup TX can be up and on-the-air within 2 seconds
Complete activity logging and transmission.
SNMP compatible for newer transmitters
Switching diagnostics to quickly help identify any problems
Remote access over dial-up, IP network or low-speed serial links
Simple Graphical User Interface
Equipment Required
✓ Davicom Cortex 320 unit with Main & Aux system configuration pre-loaded
✓ Interconnection cables and accessories
✓ Optional on-site dedicated HDMI video screen for GUI display
✓ Optional Network switch if SNMP capability is required



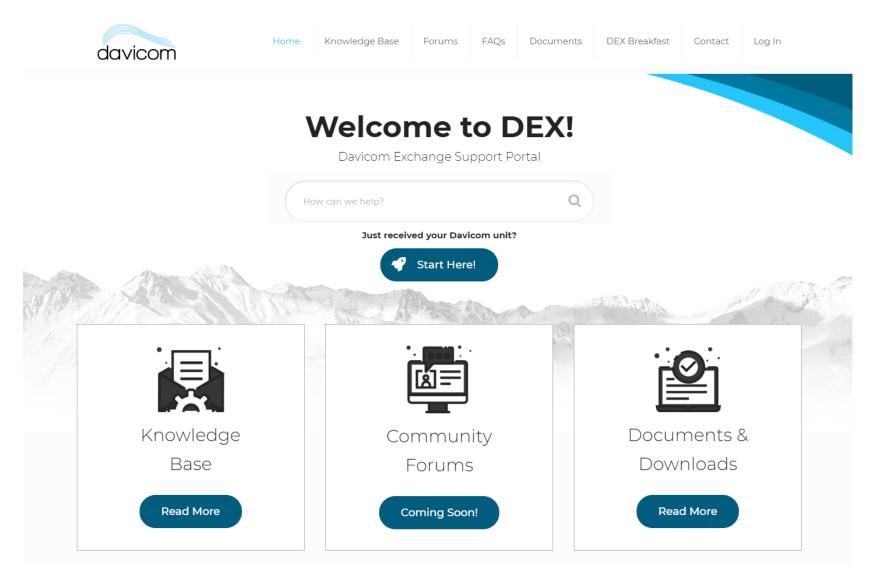
And now, a word from our sponsor

See Louis-Charles' in-depth coverage of SNMP & Modbus during his webinar, tomorrow (Wednesday April 22nd) at 11:00 AM EDT





New DEX Support Portal





New DEX Support Portal

Let's connect and explore!

https://dex.davicom.com



Thank you for attending!

Questions?

Please complete the survey to be eligible for the prize drawing

Stay safe and healthy

the Davicom team