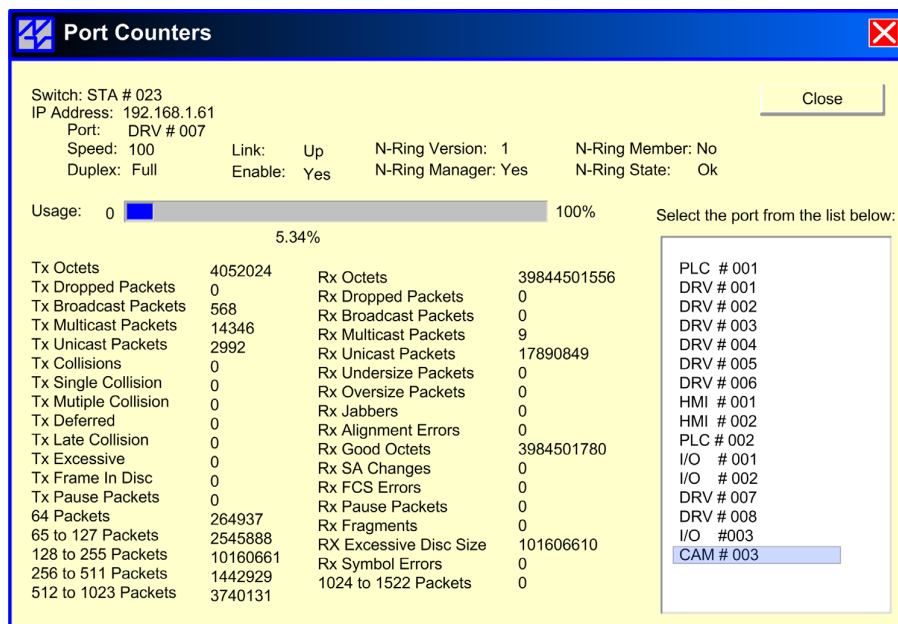


▶▶▶ Remote Network Monitoring Software

N-View OPC - OLE for Process Control Server for N-TRON Switches Transforms your HMI into a Complete Remote Network Monitoring Tool



The N-Tron® N-View® OLE for Process Control (OPC) Server Software will work with industrial standard OPC Client software and most popular Human Machine Interface (HMI) packages to provide complete remote network traffic and status monitoring for N-Tron 300-N, 500-N, 500-A, 700, 7000, and NT-24K switch series with the N-View Firmware. N-Tron Industrial Ethernet Switches offer outstanding performance and ease of use. They are ideally suited for connecting Ethernet enabled industrial and/or security equipment requiring mission critical reliability. The N-View OPC Server in combination with one or more of our industrial switches will add complete network visibility to an HMI Control and Monitoring application.

N-View Switch Firmware

N-View capable switches will autocast a small Ethernet packet periodically containing a port-by-port status of the switch. This information includes 5 switch level data points and 41 data points per port. This data is captured by the N-View OPC Server Software and can be displayed by application software running in the same Windows environment with OPC Client capability.

Ease of Use

The N-Tron N-View OPC Software includes the OPC Server and a configuration software utility. The configuration software will automatically search the network for all N-View enabled switches using the unique IEEE MAC addresses to identify each switch.

The Switch MAC address can be selected and assigned a 80 character alias name. Meaningful alias names can also be added to all ports using the configuration software. The switch and port alias names can be saved and used by the N-View OPC Server as part of the switch variable names. The alias names can be used to help identify the location of the switch and the areas or equipment connected to the ports.

N-View OPC Data Variables

N-View OPC Server data variables can be accessed by most popular HMI or other application software packages with OPC client capability. These variables can be divided into three general categories.

Status variables indicate the operating condition of the switch or port.

Traffic variables count the number of OCTETS (BYTES) of a specific type of ethernet packet that have passed through a port since the start of the switch.

Error variables count the number of packet errors seen at each port since the start of the switch. N-View OPC variables are presented to the OPC Client application software as string variables. Most HMI software packages can convert these variables to the data type required for display, alarming, and trending during the data import process.

High Quality and Reliability

N-Tron is a worldwide leader in Industrial Networking technology and offers proven reliability quality, and service.

N-View OPC and N-View Switch Ordering Information

| | |
|--|--|
| N-VIEW OPC | CD with N-View OPC Server, N-View Configuration Software and Manual For use with the following N-View capable N-TRON switches with -N or -A extensions: |
| 300 | Series Industrial Media Converters and Ethernet Switches (-N models) |
| 500 | Series Industrial Ethernet Switches (-N and -A models) |
| 700 | Series Industrial Ethernet Switches |
| 7000 | Series Industrial Ethernet Switches |
| NT24k | Series Industrial Ethernet Switches |
| See Individual Series for specific ordering information. | |

N-View Variable Specifications

N-View Switch Variables

| | |
|--------------------|-----------------------------------|
| Switch_Alias | User Assigned Alias Name |
| Switch_Status | Online/Offline |
| Switch_Last_Update | Seconds since last unicast update |
| Switch_MAC_Address | Switch MAC Address |
| Switch_Total_Ports | Total number of ports on switch |

N-View Port Status Variables

| | |
|---------------------|-------------------------------|
| Port_Alias | User Assigned Port Alias Name |
| Port_Duplex | Half / Full / NA |
| Port_Link_Status | Up / Down |
| Port_PortId | 1 to 24 |
| Port_Speed | 10 / 100 / NA |
| Port_Usage | 0.00 to 100% |
| Port_Enable/Disable | On / Off |

N-View Port Error Variables

| | |
|-----------------------------|-----------------------|
| Port_rx_alignment_errors | BYTE Count from Start |
| Port_rx_drop_pkts | BYTE Count from Start |
| Port_rx_fcs_errors | BYTE Count from Start |
| Port_rx_fragments | BYTE Count from Start |
| Port_rx_jabbers | BYTE Count from Start |
| Port_rx_over_size_pkts | BYTE Count from Start |
| Port_rx_sa_changes | BYTE Count from Start |
| Port_rx_symbols_errors | BYTE Count from Start |
| Port_rx_under_size_pkts | BYTE Count from Start |
| Port_tx_deferred_transmit | BYTE Count from Start |
| Port_tx_drop_pkts | BYTE Count from Start |
| Port_tx_excessive_collision | BYTE Count from Start |
| Port_tx_frame_in_disc | BYTE Count from Start |
| Port_tx_late_collision | BYTE Count from Start |

N-View Port Traffic Variables

| | |
|-----------------------------|-----------------------|
| Port_pkts_64_octets | BYTE Count from Start |
| Port_pkts_65to127_octets | BYTE Count from Start |
| Port_pkts_128to255_octets | BYTE Count from Start |
| Port_pkts_256to511_octets | BYTE Count from Start |
| Port_pkts_512to1023_octets | BYTE Count from Start |
| Port_pkts_1024to1522_octets | BYTE Count from Start |
| Port_rx_octets | BYTE Count from Start |
| Port_rx_good_octets | BYTE Count from Start |
| Port_rx_broadcast_pkts | BYTE Count from Start |
| Port_rx_multicast_pkts | BYTE Count from Start |
| Port_rx_unicast_pkts | BYTE Count from Start |
| Port_rx_pause_pkts | BYTE Count from Start |
| Port_tx_octets | BYTE Count from Start |
| Port_tx_collisions | BYTE Count from Start |
| Port_tx_multiple_collision | BYTE Count from Start |
| Port_tx_single_collision | BYTE Count from Start |
| Port_tx_broadcast_pkts | BYTE Count from Start |
| Port_tx_multicast_pkts | BYTE Count from Start |
| Port_tx_unicast_pkts | BYTE Count from Start |
| Port_tx_pause_pkts | BYTE Count from Start |

Minimum System Requirements

Windows NT4.0 w/SP4 or later
 Windows 2000
 Windows XP
 Windows Vista (requires administrator privileges)
 Windows 2003 Server (requires administrator privileges)
 Windows 7, 32-bit