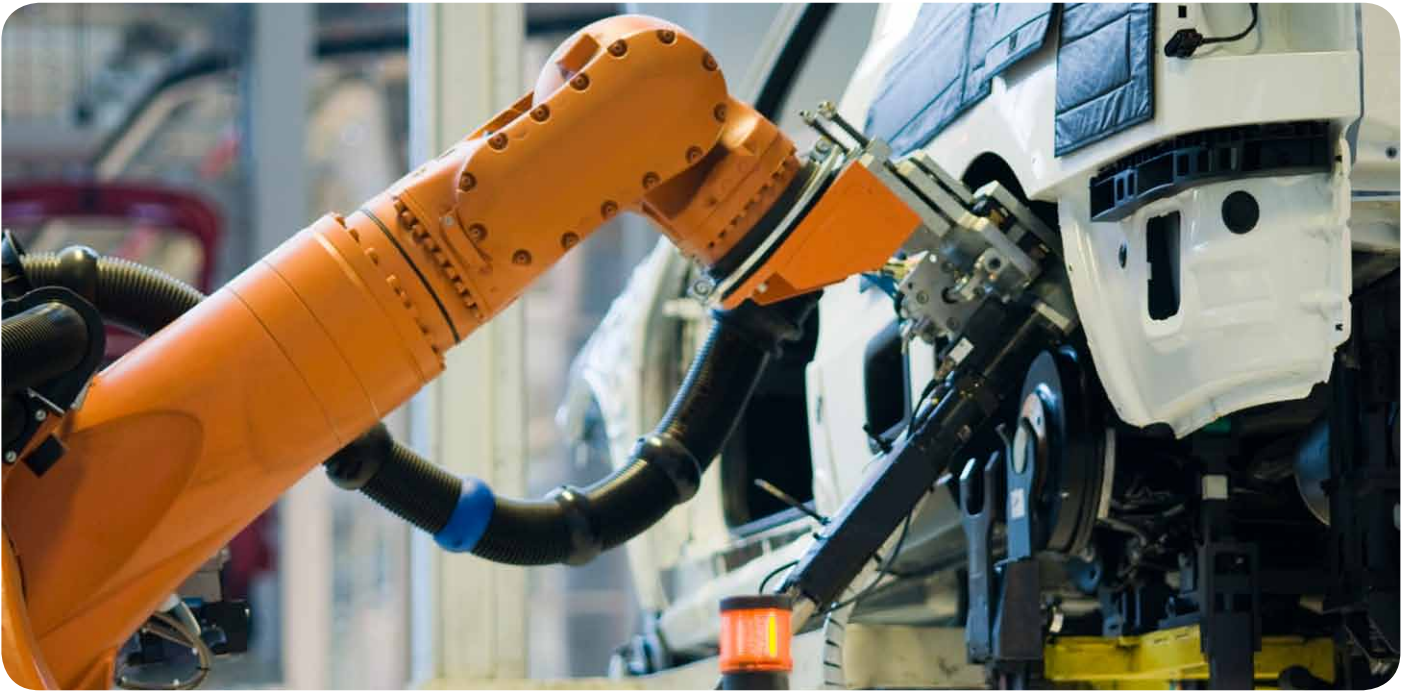


PROCENTEC



Netilities

PROFINET Diagnostic and Engineering Tool

Visualize and troubleshoot any PROFINET network with the Netilities PROFINET diagnostic and engineering tool. Netilities is a compact and efficient graphical software tool useful for engineering, monitoring and troubleshooting PROFINET installations. It generates a real time live list of the network and detects devices in Data Exchange. Statistics provide a comprehensive overview of the network condition. It even receives alarm messages when a critical situation occurs. Thanks to these unique features engineers can be informed directly and prevent downtime.

Netilities' live list is color-coded and provides detailed configuration and status information. Info fields and alarm messages are displayed to inform the user on actual network problems. The list of detectable PROFINET faults identified by Netilities includes general communication faults, configuration faults, diagnostics of devices, lost/missing device, wrong device name, duplicate device name and duplicate IP address. Network statistics (cycle times, error counts, alarms, traffic levels, etc.) can be viewed to monitor system operations and current conditions. Detailed reports can be easily generated and saved in PDF format. The PROFINET alarm messages are also added to this report.

Netilities is also used to set Device Names and IP addresses and export the detected devices to CSV. The LED test feature can visualize the targeted PROFINET device. Netilities is stored on and run from a USB dongle that can be moved between PCs. Connection to the PROFINET network is made via the PC's Ethernet port or via an interface to a ProfiTap via USB.

Product features

- Real time scan / Live List of the complete network
- Info panel for network problems
- See difference in real and expected configuration of devices
- Statistics (cycle times, corrupted telegrams, data size, etc.)
- Import GSDML files to display device items and diagnostics
- Acyclic reading of information of IO-devices (I&M0)
- Setting Device Names and IP numbers
- Topology scan based on SNMP and LLDP
- PROFINET LED test
- Suitable for other Ethernet systems
- Save and load all captured information
- **Alarm messages decoded and displayed**
- **Alarm messages added to the report**

IP	MAC Address	Protocol	Device/Access	P Address	Device Name	Device Model	Device Role	Vendor Device	Last response packet
172.16.1.1	08:00:20:08:00:08	PROFINET	Siemens 6ES7 311-1CG03-0AB0	172.16.1.1	Siemens 6ES7 311-1CG03-0AB0	6ES7 311-1CG03-0AB0	IO-Device	6ES7 311-1CG03-0AB0	10-0-0000 11:15:55
172.16.1.2	08:00:20:08:00:09	PROFINET	Siemens 6ES7 311-1CG03-0AB0	172.16.1.2	Siemens 6ES7 311-1CG03-0AB0	6ES7 311-1CG03-0AB0	IO-Device	6ES7 311-1CG03-0AB0	10-0-0000 11:15:55
172.16.1.3	08:00:20:08:00:0A	PROFINET	Siemens 6ES7 311-1CG03-0AB0	172.16.1.3	Siemens 6ES7 311-1CG03-0AB0	6ES7 311-1CG03-0AB0	IO-Device	6ES7 311-1CG03-0AB0	10-0-0000 11:15:55
172.16.1.4	08:00:20:08:00:0B	PROFINET	Siemens 6ES7 311-1CG03-0AB0	172.16.1.4	Siemens 6ES7 311-1CG03-0AB0	6ES7 311-1CG03-0AB0	IO-Device	6ES7 311-1CG03-0AB0	10-0-0000 11:15:55
172.16.1.5	08:00:20:08:00:0C	PROFINET	Siemens 6ES7 311-1CG03-0AB0	172.16.1.5	Siemens 6ES7 311-1CG03-0AB0	6ES7 311-1CG03-0AB0	IO-Device	6ES7 311-1CG03-0AB0	10-0-0000 11:15:55

Application areas

- Troubleshooting & maintenance of PROFINET networks
- Commissioning of PROFINET networks
- Education



Detectable faults on PROFINET

- General communication faults
- Configuration faults
- Diagnostics of devices
- Lost/missing device
- Wrong device name
- Duplicate device names
- Duplicate IP addresses

