



The advanced Industrial Ethernet solution for automation, motion control and IT integration

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The official email newsletter of the PTO in North America

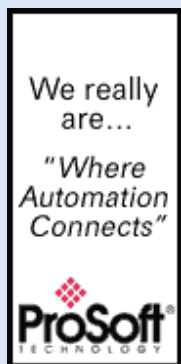
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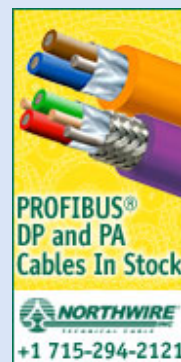


GENERAL NEWS

[2010 TRAINING EVENTS LISTED](#): Plans are starting to be fixed for PTO's 2010 series of educational and training events. They include 11 Certified Network Engineer classes - with two PA sessions added too.

[Details here](#), or click the links in the table below. All classes take place at the PROFIBUS Interface Center in Johnson City, TN.

Certified Network Engineer Classes		
DATE	PROFIBUS	PROFINET
March	DP 22-26	15-19
May	DP 17-21 PA 24-25	
June		7-11
Sept	DP 13-17 PA 20-21	20-24
Oct	DP 11-15	
Nov	DP 8-12	
Dec		6-10



In addition, PTO will also organize a series of [one day FREE training events](#) that are positively the easiest and best way to enter the world of PROFIBUS and PROFINET. These are held across North America. All attendees at all events qualify for a 20% discount on any PROFINET Certified Network Engineer class (see



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table above). And if that's not enough, a certificate for 5.5 Professional Development Hours (PDH) is awarded too! What value!

- **FREE One-day Training Classes:** Ten one day classes have been provisionally set. Check out the [dates here](#). More will come so keep watching that page. In case you can't make it to an event we've archived some webinars [on relevant topics here](#).
- **Webinars:** We hold Webinars at regular intervals. Most are archived [here](#), covering Industrial Ethernet Basics, PROFINET, Wireless, and PROFIBUS in the Process Industries. There's also a 'Diagnostics for PROFINET and other Industrial Ethernets,' webinar to stimulate you. Do you have a topic that might be ideal for a webinar? Suggestions welcome [here](#).

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PROFenergy MAKES ITS SHOW DEBUT: PROFINET has always used green cable ... but now it's officially a green network too, with the addition of the new profile called PROFenergy. With PROFenergy, users can actively and effectively manage energy in their automation systems. By purposefully switching off unnecessary consumers, energy demand and, thus, energy costs can be drastically reduced. At the SPS/IPC/Drives Fair in Nuremberg, November, it was announced that the specification is now close to being finalized. PROFenergy was requested by automotive companies as a means of cutting energy costs and helping meet growing regulatory requirements. Read our [PROFenergy article here](#).



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SPS/IPC/Drives ATTRACTS 48,000 VISITORS: Yes really! This annual automation Fair in Nuremberg in Germany holds a secret many show organizers would die for. What is it? Well, it's compact (though getting larger); it's comfortable; it's supported by all the best and biggest vendors; and it's in a nice city, in a nice part of Germany at a nice time of year. But its biggest plus is that it's relevant, and packed full of great new automation ideas, products and solutions. More than 1,200 companies exhibited, including PI with a large booth. PTO was well represented on this booth ... as the many PROFIBlog posts from the Fair attest. [Read them here](#) and get a rich flavor of what happened, especially the essentials concerning PROFIBUS and PROFINET.



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WHY PROFINET?: Network users have a number of industrial Ethernet implementations available to them. Carl Henning, deputy director of PTO North America, made the case for choosing PROFINET in a recent newsletter. He wrote: *"Over the last few months, I've attended more than my fair share of trade shows and training events, and encountered device vendors and users pondering an industrial Ethernet solution. This prompted me to summarize the case for choosing PROFINET".* Carl's five most important criteria are:



- Performance
- Scope
- Widely Used
- Globally Supported
- Certification

You'll find the [full details here](#).



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MAJOR VENDORS UNITE AROUND FDI: To accelerate deployment of Field Device Integration (FDI) in the process industries, key suppliers have agreed to join the organizations already engaged in the evolution of this tool, which unifies the benefits of FDT and EDDL technologies for device engineering and integration. ABB, Emerson, Endress+Hauser, Honeywell, Invensys, Siemens and Yokogawa will join the FDT Group, Fieldbus Foundation, HART Communications Foundation, OPC Foundation and the PROFIBUS Nutzerorganisation to become the 'FDI Cooperation'. The addition of key equipment vendors extends the resources available for completion of the project. The vendors have also agreed to support FDI in their systems and products. The finalization of the FDI specification is scheduled for mid-2010. PTO Executive Director Mike Bryant said: "It's great to see significant progress as users have been calling for this technology for some time. The direct involvement of system suppliers will greatly accelerate the integration of FDI into process control systems and create confidence and investment protection."



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BLOGGING AND TWEETING WITH PTO: As well as featuring extensively in PROFIBlog, the SPS/IPC/Drives automation Fair (see above) was the focus of many Tweets from Carl Henning (right). Carl is now regularly broadcasting from just about anywhere he happens to be, automation-wise. To stay abreast of all the best in PROFIBUS and PROFINET, check his output [here](#).



**Tweeting? It's a short broadcast posting from www.twitter.com which you can pick up on your computer, PDA or smartphone. PTO is using the service more and more to alert automation readers to relevant news topics fast.*



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CERTIFICATION FOR PROFIBUS PA V3.02: Effective immediately, certification is available for the PROFIBUS PA profile V3.02. The profile meets user requests for enhanced version management of devices, device files and software platforms, to minimize maintenance costs over the life cycle of production equipment, as well as facilitate user requests for device replacement during operation. It enables easy device integration and makes it simple for 4-20mA users to upgrade to PROFIBUS. The test cases required have already been implemented at PI Test Laboratories.

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WORLD NEWS

FRANCE: AGILiCOM has become the first PI Training Center (PITC) in France. **SOUTH EAST ASIA:** The Singapore PI Competence Center (PICC) has accredited PROCENTEC as a second PICC in Singapore. **NORWAY:** PI set the agenda at the first day of the PEA Fair in Oslo, where the 20th anniversary of PROFIBUS was celebrated. PI Chairman Jörg Freitag and the Chairman of RPA Sweden, Lars H. Larsson (see picture right)



supported. **JAPAN:** Japanese PROFIBUS Organization (JPO) attended three Fairs in three weeks during November - Measurement and Control 2009 in Tokyo, System Control 2009 and SEMICON Japan. **INDIA:** The first two PROFIBUS Troubleshooting & Maintenance Training workshops took place in November at Pune and Bangalore. Both were organized by the UL Group with help from the PROCENTEC PI Training Center in Netherlands. **BRAZIL:** The Association's new web site was unveiled in November. An aim of the site is to optimize information search and create a reliable knowledge base in Latin America. **SPAIN:** A brand new RPA was established in November! During the Foundation Meeting, Siemens, ABB, Phoenix Contact and Logitek agreed to form the Board. Their first meeting will be held in January. A General Assembly meeting will also be held in January. Welcome Spain!

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APPLICATIONS

NORWAY / TRAFFIC CONTROL SYSTEMS: A Norwegian OEM was faced with having to create a complex networked system to a very tight deadline. A modular PROFIBUS solution came to the rescue. [Read how here.](#) **AUSTRALIA / WATER DESALINATION:** 1400 instruments networked with PROFIBUS formed the basis of an automation project described by an engineer thus: "I have only seen this level of automation on oil refineries, never on a water plant: it's unique!" [Read more here.](#)

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PROFIpeople - bringing you the 'who's who' of PROFIBUS and PROFINET

MIKE BRYANT: PTO's founder in 1994 and still its Executive Director today, Mike was one of the key people who began the internationalization of PROFIBUS at a time when it faced severe competition outside of Europe, not least in North America. Mike had the vision to see that an elegant fieldbus solution, addressing both factory and process automation equally, and backed by the world's best automation vendors would have a future globally if marketed correctly. The fact that PROFIBUS is today the world's most widely used fieldbus is just reward for his hard work and dedication over the past 16 years. Mike is also Deputy Chairman of PI, the umbrella organization of the worldwide community of 26 Regional PI Associations, of which PTO is a member.



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NEW PRODUCTS

PROFIsafe IO MODULES: The new 757-662 input module, with eight secure inputs, and the 753-667 I/O module, with four inputs and outputs, support safety applications up to Cat. 4 PLe and SIL 3 under PROFIsafe. Filter times, test pulses and time monitoring can be optimized and modules can be assigned to CNC control via fieldbus couplers for PROFIBUS. With the couplers as components of the WAGO-I/O-SYSTEM, users can not only take advantage of safety-related modules, but also the entire spectrum of other available I/O modules. Safety and standard modules can be combined. [WAGO](#).



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PROFINET GATEWAY: Industrial Control Communications has announced the ETH-1000 multi-protocol Ethernet communications gateway. It allows information to be transferred seamlessly among various Ethernet and RS-485 networks with minimal configuration requirements. It supports PROFINET IO and provides PROFINET controllers with the ability to simultaneously access information on other popular industrial and commercial networks. The gateway is configured by the ICC Gateway Configuration Utility PC application via a USB mini type-B cable. [ICC](#)



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PROFINET I/O DELIVERS LESS THAN 1ms: A new Axioline real-time I/O system for control cabinets has been launched by Phoenix Contact. The system has IP20 protection and is optimized for PROFINET. Response times of less than 1 ms can be achieved thanks to an offset of 1 μ s per I/O module. The I/O system is simple



to handle: the PIT direct connector system for wiring without tools and outlets at both sides of the station ensures transparent cabling in the control cabinet. An integrated I/O tester reads in the station via a USB interface without requiring an additional network or additional control, and tests the inputs and outputs. [PHOENIX CONTACT](#)



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