

» [Newsletter Archive](#)



January 2010

Fieldbus Facts Online is brought to you by the Fieldbus Foundation, an international, not-for-profit corporation consisting of automation industry leaders dedicated to providing the "Freedom to Choose" and the "Power to Integrate."

Featured This Month



In This Issue...

Foundation Briefs

Fieldbus Foundation supports expanded industry FDI collaboration
 New member: Deca Cables, leading cable supplier, joins Fieldbus Foundation

FF Nederland celebrates 10th anniversary with end-user seminar
 5th annual fieldbus conference planned for Frankfurt am Main, Germany
 UK marketing committee schedules half-day supplier training sessions
 Fieldbus Foundation plans educational events worldwide

Products & Solutions

Emerson field communicator adds powerful valve diagnostics
 New Endress+Hauser tool to include interpreter DTM for FOUNDATION fieldbus
 Fieldbus Center: Data mining identifies fieldbus 'mother lode'—or is it 'load'?
 MooreHawke TrunkSafe system guards against single-point failures
 Rockwell supports virtualization with VMware-ready software

Sponsors





Foundation Briefs

Fieldbus Foundation supports expanded industry FDI collaboration



The Fieldbus Foundation is praising an expanded automation industry collaborative effort intended to accelerate deployment of Field Device Integration (FDI) technology.

Key automation suppliers have agreed to enlarge the scope of the Electronic Device Description Language (EDDL) Cooperation Team into the FDI Cooperation, which is supporting a uniform device integration solution for process industries across all host systems, devices, and protocols required by end users. The FDI Cooperation project initially will consist of major industry trade associations, such as the Fieldbus Foundation, FDT Group, HART Communications Foundation, OPC Foundation, and Profibus Nutzerorganisation; as well as leading control equipment suppliers, including ABB, Emerson Process Management, Endress+Hauser, Honeywell, Invensys, Siemens, and Yokogawa.

"The Fieldbus Foundation is in full support of FDI Cooperation and will continue to be a significant contributor to the related development work," said Fieldbus Foundation President and CEO Rich Timoney. "Adoption of a standardized FDI solution is in the best interest of controls and instrumentation suppliers and end users around the world, since it provides a unified path forward for device integration that is based on use case requirements, incorporates the best aspects of each member technology, and eliminates redundancies where they may exist," he continued. "FDI also does away with double efforts for customers and vendors, and preserves backward compatibility and operating system independence."

The FDI project was launched at Hanover Fair in 2007. At that time, the EDDL Cooperation Team welcomed the FDT Group with the primary objective of harmonizing EDDL and FDT/DTM technologies. Since then, the project has carefully shaped the technology direction for the converged FDI solution. The addition of supplier companies, which have agreed to support FDI packages in their systems and products, will strengthen this effort by providing resources for the completion of this project.

In addition to finalizing the FDI specification, which is scheduled for mid-2010, the FDI Cooperation is covering common design and test tools, common binary format, and EDDL interpreter across the FOUNDATION fieldbus, HART, and Profibus protocols.

For more information, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

Deca Cables, leading cable supplier, joins Fieldbus Foundation



Deca Cables, a Trenton, Ontario, Canada-based supplier of cable products, is the newest member of the Fieldbus Foundation. The company manufactures cable for a wide range of industrial markets, including oil and gas, petrochemical, utility, mining, pulp and paper, transportation, broadcast, commercial, and residential. It employs nearly 100 and meets customer's needs through innovative technology, design, and service.

As the newest supplier of FOUNDATION fieldbus cable, Deca Cables hopes to achieve recognition and access to new markets for its product line. The 22-year-old, privately-owned company also expects to enhance its visibility within the fieldbus community and contribute to the growth of the market.

“Deca’s success has been the result of our commitment to product development, customer service, and product diversification,” said Domenic Di Pietrantonio, the company’s founder. “We’ve developed a loyal customer base with our ability to develop quality cables that address our customer’s business requirements, as well as our ability to provide outstanding service and support.”

The company was named one of Canada’s 50 best managed companies in 2009. The award recognizes Deca’s overall business performance, its sustained growth, and the efforts of the entire organization. The selection process involves an extensive examination of a company’s management practices, including commitment to its core vision, creating stakeholder value, and excelling in the global economy. Finalists are chosen on their ability to achieve sustainable growth, customer commitment, and dedication to employee satisfaction.

Visit the [Deca Cables Website](#) for more information.

[Return to Top](#)

Global News & Events

FF Nederland celebrates 10th anniversary with end-user seminar



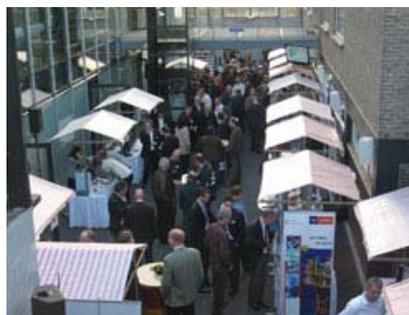
The Fieldbus Foundation Dutch Marketing Committee (FF Nederland) welcomed more than 150 engineers to its recent end-user seminar, held on Nov. 12, 2009, to mark the 10th anniversary of the committee and its activities in The Netherlands. The seminar took place at STC Brielle, nr. Rotterdam, The Netherlands, and focused on the “Facts & Opinions of FOUNDATION Fieldbus—Usage and Maintenance.”

The seminar’s afternoon program was kicked off by Rob van der Zwan, chairman—FFNL, with a review of the Dutch committee’s activities over the last decade. It was followed by three parallel presentations from prominent end users of FOUNDATION fieldbus, which were each held twice to enable delegates to attend two of the three options. Each session focused on a particular aspect of the technology, including operations, engineering, and maintenance. Mark Dijkstra of Titan Woods reviewed total project handling; Peter Holdijk, Akzo-Nobel, outlined the engineering aspects of remotely controlled chloride production units; and Ron Nieuwland and Michel Immerzeel, Shin-etsu, shared their company’s experiences of the project maintenance phase.

The end-user presentations were followed by a round table discussion moderated by key trade publication editors from the process industries, including Willem van der Bijl, Rob Hulsebos, and Bareld Bruining. After a complimentary dinner, the evening concluded with a presentation of future developments of FOUNDATION technology.

A tabletop exhibition by Fieldbus Foundation sponsor companies provided an ideal opportunity for participants to discuss products and applications with fieldbus experts from many of the world’s leading suppliers of control and automation systems and devices. This was complemented by the open access to STC Brielle’s demonstration plant.

Rob van der Zwan, chairman of FF Nederland, was delighted with the success of the seminar. “We knew that the timing of the event would fit well with a busy engineer’s daily schedule, and our program of presentation topics and speakers addressed the critical issues facing users and potential users of FOUNDATION technology,” said van der Zwan. “The discussion forums proved to be particularly valuable and we are grateful to our moderators for facilitating such a fruitful exchange of experiences and opinions,” he added.



For information about future FF Nederland events, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

5th annual fieldbus conference planned for Frankfurt am Main, Germany



The Fieldbus Foundation German Marketing Committee is pleased to announce the fifth annual German+Swiss FOUNDATION Fieldbus Conference, to be held at the Industriepark Höchst, Frankfurt am Main, Germany, on Thursday, Jan. 28, 2010.

This year's conference will follow a similar format to that of previous successful events held in Basel, Switzerland and Marl, Germany, and is specifically aimed at end users and engineering contractors. The event offers a unique opportunity for all attendees to share and discuss their experiences about the implementation of FOUNDATION fieldbus technology.

The conference will be opened by Dr. Raimund Sommer, chairman of the Fieldbus Foundation EMEA Executive Advisory Council, and Wolfgang Höferlin, chairman of the Fieldbus Foundation German Marketing Committee. The morning agenda will include end user presentations by Dr. Niels Kiupel, Evonik Industries AG and Herr Klaus Fahrner, Celanese AG.

In addition to the end-user program, delegates will also be updated on the latest FOUNDATION fieldbus developments, including the economic benefits of Control In the Field (CIF) following the recent launch of the ARC Advisory Group's whitepaper, "The Business Value Proposition of Control In the Field."

During the afternoon session, attendees will have an opportunity to participate in a choice of two out of three parallel roundtable discussion groups on the subject areas of Tendering & Planning, Operation, Maintenance & Diagnostics, Control In the Field, and FOUNDATION Fieldbus for Safety Instrumented Functions (FF-SIF). The roundtable discussions will be moderated by industry experts Dr. Volker Oestreich, chief editor—Drives & Motion; Dr. Peter Ebert, chief editor—Messtec & Automation; and Herr Armin Scheuermann, chief editor—Chemie Technik.

The event is sponsored by: Bürkert, Emerson Process Management, Endress+Hauser, Honeywell, Invensys, Leoni, MTL Instruments, Pepperl+Fuchs, Phoenix Contact, R. Stahl, Samson, Softing, and Yokogawa. All sponsoring companies will have a tabletop exhibit throughout the conference with representatives available to discuss products and applications during break times. Representatives from BIS Prozesstechnik GmbH, a Centre of Excellence for FOUNDATION technology, will also be available throughout the conference to answer basic technical questions about FOUNDATION fieldbus and its applications.

In addition to the full conference program on Thursday, Jan. 28, delegates will have the opportunity to attend a training course from 1:00 to 4:30 pm on Wednesday, Jan. 27, at the FOUNDATION fieldbus laboratory at the BIS Prozesstechnik GmbH centre of excellence at the Industriepark.

The training course will include technical presentations enhanced by practical demonstrations using a test host system and multiple field devices. Topics covered will include a general overview of fieldbus technology and its key features/benefits, architecture and functionality of FOUNDATION technology, and comparisons with conventional automation technologies. The cost of attending the course is 230 Euro per person and includes seminar notes and refreshments. Fieldbus Foundation members will receive a 10% discount.

For more information or to register, [email Brigitte Baumgart](mailto:Brigitte.Baumgart@fieldbus-foundation.com).

[Return to Top](#)

UK marketing committee schedules half-day supplier training sessions

The Fieldbus Foundation UK marketing committee (FFUKMC) will hold a series of training events across the UK to meet the ongoing need for FOUNDATION fieldbus education within the Fieldbus Foundation's own member companies.

The half-day events will target employees within the supplier community and offer a basic overview of FOUNDATION fieldbus technology, its implementation, applications, and overall plant integration. The training is intended in particular for sales representatives and engineering staff who interact with users or potential users of FOUNDATION technology and their companies' fieldbus systems, devices, or interfaces.



Each event costs £10 per person and includes lunch. The agenda will cover:

- An introduction to FOUNDATION fieldbus
- Making FOUNDATION fieldbus work
- Making FOUNDATION fieldbus reliable
- Asset management
- Business intelligence
- Future developments

John Hartley, chairman of the FFUKMC, expressed enthusiasm about the new training events. "It's vital that companies do all that they can to support their sales and engineering staff," said Hartley. "The greater the knowledge employees have about fieldbus products and the technology behind them, the more effectively they can perform in front of current and prospective customers. Workforces can be very fluid with new staff coming through on a regular basis—employee training must be a constant consideration for management. With courses scheduled across the UK, all interested parties have an opportunity to attend."

A number of supplier community training events have already taken place. One remaining session on the schedule is set for:

- Scotland: Feb. 2, 2010 at Honeywell, Newhouse

For more information about the training sessions, or to make a reservation for the February event, contact Charlotte Gear by telephone at +44 (0)161 286 5000 or by [email](#).

For more information about the Fieldbus Foundation UK marketing committee and its activities throughout the UK, visit the UK section of the Fieldbus Foundation [Website](#) or [email](#) the committee.

[Return to Top](#)

Fieldbus Foundation plans educational events worldwide

The Fieldbus Foundation is planning a variety of informational and educational events around the world for the remainder of 2009 and into 2010. Make plans now to attend an event in your area.

LOCATION	DATE	EVENT and CONTACT INFORMATION
EVENTS IN NORTH AMERICA (ADDITIONAL 2010 EVENTS TO BE ANNOUNCED SOON)		
Montreal, Canada	Feb. 4, 2010	FOUNDATION Fieldbus End User Seminar More information to come
EVENTS IN EMEA (EUROPE, MIDDLE-EAST, AFRICA) EVENTS		
Frankfurt, Germany	Jan. 28, 2010	5th Fieldbus Foundation Conference Click here for more information
Newhouse, Scotland (Honeywell offices)	Feb. 2, 2010	Scottish Region--Supplier Community Training Click here for more information
Düsseldorf, Germany	March 3-4, 2010	Process Management Academy More information to come
Hannover, Germany	April 19-23, 2010	Process Management Academy (formerly Interkama) More information to come
EVENTS IN SOUTH EAST ASIA		
Thailand	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Malaysia	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Jakarta, Indonesia	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Vietnam	To be determined	FOUNDATION Fieldbus End User Seminar

		More information to come
The Philippines	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
EVENTS IN INDIA		
Chennai, India	Feb. 6, 2010	ISA / FOUNDATION Fieldbus Event Click here for more information
Mumbai, India	Sept. 16-19, 2010	Automation 2010 More information to come
EVENTS IN EAST ASIA		
Osaka, Japan	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
Korea	To be determined	FOUNDATION Fieldbus End User Seminar More information to come

For more information, visit the Fieldbus Foundation [Website](#).

[Return to Top](#)

Products & Solutions

Emerson field communicator adds powerful valve diagnostics

Emerson Process Management's 475 Field Communicator 3.2 includes a new ValveLink mobile application. ValveLink Mobile lets users access predictive diagnostics from Fisher Fieldvue digital valve controllers in the field and transfer the results to AMS Suite, an industry-leading predictive maintenance application, for in-depth analysis and documentation. The field communicator provides universal support for all HART, WirelessHART, and FOUNDATION fieldbus devices, and is intrinsically safe for use anywhere in the plant.

ValveLink Mobile includes an easy-to-use tool for startup, commissioning, and diagnosing Fieldvue instruments in the field. It provides fast, touchscreen access to key maintenance and troubleshooting tools. Diagnostic data can be viewed and stored locally and uploaded to AMS Suite for additional evaluation and diagnosis.



Following a task-based approach to the human interface, ValveLink Mobile simplifies access to data with a minimum number of touchscreen clicks, and flick, zoom in, and zoom out features. Simple instructions guide the user to setup and calibrate valves and run diagnostics such as stroke valve, step response, and valve signature on the entire valve assembly.

More information on the product is available on the Emerson [Website](#).

[Return to Top](#)

New Endress+Hauser tool to include interpreter DTM for FOUNDATION fieldbus



Endress+Hauser's new FieldCare Plant Asset Management tool, 2.07.00, due to be released at the end of January, will include an interpreter DTM (iDTM) for FOUNDATION fieldbus devices. The iDTM interprets DDs and provides customers with a pragmatic and easy way to integrate devices without dedicated device DTMs into FieldCare by combining the two device integration technologies (FDT and EDDL) into one solution.

iDTM-FOUNDATION fieldbus is based on the standard Fieldbus Foundation interpreter and will include registered FOUNDATION fieldbus DDs. Operating with FieldCare, it assumes general responsibilities, such as creating and updating the device catalog or the automatic assignment of the correct iDTM after the network has been scanned.

The full functionality of a device, as described in the DD by the device supplier, is available in a standard DTM user interface. iDTM interprets DDs online, so that once it has been implemented in an asset management environment, it can use the latest devices and DDs with no problem. However, to ensure best device operation, FieldCare always chooses a device DTM, if available; otherwise it automatically selects the iDTM.

For more information, visit the [Endress+Hauser Website](#).

[Return to Top](#)

Fieldbus Center: Data mining identifies fieldbus ‘mother lode’—or is it ‘load’?



Debate regarding how much savings FOUNDATION fieldbus brings to design, engineering, installation, and startup costs may still exist. Unfortunately, the result is that such “CAPEX” debates may overshadow a key hidden value of fieldbus—the power inherent in the wealth of data the technology makes available to the end user. Generally, most users are less interested in installation costs than in gleaning every ounce they can from the day-to-day operation of their processes.

Of course, in any situation where a plethora (the twin sister of “copious”) of data exists, the opportunity to drown in one’s data juices also rears its ugly head. The value of mining data not only surrounds the quantity of data, but also includes issues such as type of data, where data come from, and where data go. Data mining, then, is a wonderful concept, but what do you do when the mine appears to contain not only diamonds, gold, platinum, and rubies, but pyrite and bats as well? Or in other words, what do you do when the “lode” becomes a “load”?

Concerns surrounding data storage, retrieval, refinement, analysis, and review can lead potential fieldbus users to consider taking up a new, less stressful hobby, such as swimming with sharks. It is possible to manage effectively the myriad (cousin to “plethora” and “copious”) data, providing the user first recognizes the data and the value in getting to the data.

The Fieldbus Center at Lee College offers a whitepaper that cites detailed examples of the “power in the data” that FOUNDATION fieldbus offers to all levels of an enterprise. The paper includes a comparative analysis of several fieldbus devices to clarify the challenges and opportunities about how data are turned from a feature of a fieldbus device into a benefit for an organization.

For more information about the project, visit the [Fieldbus Center Website](#).

[Return to Top](#)

MooreHawke TrunkSafe system guards against single-point failures

TrunkSafe fault-tolerant fieldbus system from MooreHawke, a division of Moore Industries-International Inc., provides a cost-effective, highly reliable strategy for maintaining FOUNDATION fieldbus communications between the DCS and field devices without interruption should a single-point failure, such as an open-circuit or short-circuit, occur.



Delivering a complete fault-tolerant fieldbus physical layer, TrunkSafe consists of two redundant fieldbus dc power conditioners and a specially engineered device coupler to provide a secure fieldbus physical layer. TrunkSafe:

- Maintains all process and diagnostic communications without interruption, even if the network cable is broken or shorted;
- Is compatible with FOUNDATION fieldbus H1 networks and devices without hardware or software changes; and
- Includes advanced physical layer diagnostics that monitor and report open- and short-circuits, dc power status, and segment noise.

The product is the latest addition to the MooreHawke line of fieldbus interface solutions, which includes TrunkGuard Fieldbus device couplers and power supplies designed for general purpose, non-incendive (Class 1, Div.1), Zone 1 and Zone 2 areas; and RouteMaster Fieldbus systems for intrinsically-safe (IS) applications. MooreHawke products are supported through the Moore Industries worldwide network of Interface Solution Centers.

For more information, visit the MooreHawke [Website](#).

[Return to Top](#)

Rockwell supports virtualization with VMware-ready software

PlantPAX Process Automation System

To bring virtualization capabilities to the manufacturing environment, [Rockwell Automation](#) is supporting the use of its automation software on virtualization solutions from Silicon Valley-based [VMware](#). Virtualization helps manufacturers build an infrastructure that better leverages resources and delivers high availability. Virtualization technology also extends the life of software and simplifies the distribution of bundled offers, such as Rockwell Automation's PlantPAX Process Automation System.

Today's x86 computer hardware is designed to run a single operating system environment. Such a 1 to1 ratio vastly underutilizes most workstations. Money is spent to purchase, operate, and maintain more CPUs than are necessary, wasting valuable floor space, increasing energy consumption, and tying up spending capital.

Virtualization fundamentally changes the way hardware resources are used. It works by inserting a thin layer of software, called a "hypervisor," directly on the computer hardware or on a host operating system. This layer contains virtual machines that can be transparently allocated to hardware resources when and where they are needed. Multiple operating systems run concurrently in isolated virtual machines on a single physical computer and share hardware resources with each other.

For more information, visit the Rockwell Automation [Website](#).

[Return to Top](#)



9005 Mountain Ridge Drive, Bowie Building – Suite 200, Austin, Texas 78759-5316 USA

Tel: 512.794.8890 • Fax: 512.794.8893 • E-mail: info@fieldbus.org

www.fieldbus.org