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

Featured This Month

Don't miss Fieldbus Foundation President Rich Timoney's discussion of the development of the new Remote Operations Management (ROM) technology in the ***Fall 2011 Fieldbus Report.***

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In This Issue...

Foundation Briefs

São Paulo, Brazil chosen as site of 2012 Fieldbus Foundation General Assembly

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The Fieldbus Foundation has chosen São Paulo, Brazil as the site of its 2012 General Assembly. This key automation industry event will take place March 6-8 at the Sheraton São Paulo WTC Hotel and will attract the world's leading suppliers and end users of Foundation™ fieldbus technology.

The 2012 General Assembly, themed, "In a World of Choices, FOUNDATION™ Brings it all Together," will include a comprehensive, end-user-oriented agenda consisting of fieldbus project case studies and tabletop exhibitions from leading automation vendors across the globe, as well as a demonstration of the new FOUNDATION for Remote Operations Management technology.

The Fieldbus Foundation's End User Advisory Council (EUAC) will meet Tuesday, March 6, to discuss and offer direction for FOUNDATION technology. On the agenda for Wednesday, March 7, is the keynote address by a prominent executive from the Brazilian industrial sector, FOUNDATION technology updates, and presentations by key process end users, followed by a networking reception. On Thursday, March 8, the Fieldbus Foundation will conduct its annual business meeting for members.

According to Fieldbus Foundation President and CEO Rich Timoney, São Paulo was selected as the site of this year's General Assembly because it is one of the world's fastest growing industrial regions and there is an overwhelming demand for Foundation technology within the area. "Brazil has been experiencing rapid growth in automation projects utilizing FOUNDATION technology and is arguably the central hub of the process automation industry in all of Latin America," said Timoney. "Petrobras, Brazil's largest oil producer, has been integrating FOUNDATION fieldbus into their plants for some time, and is in the midst of a large expansion project utilizing the technology."

The 2012 General Assembly program will highlight the advantages of Foundation fieldbus as a world-class solution for improving plant asset management, reliability and economic performance, Timoney added. "FOUNDATION technology is advancing to meet the needs of the process industries," he said, "including developments such as FOUNDATION for Remote Operations Management, FOUNDATION for Safety Instrumented Functions (FF-SIF), control in the field, field diagnostics, and wireless."

For registration and event sponsorship information, email the Fieldbus Foundation marketing department or visit the General Assembly page of the Fieldbus Foundation website.

Foundation unveils FOUNDATION for Remote Operations Management

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FOUNDATION technology will transform the industrial remote operations market with a single integrated infrastructure built specifically for process automation, the Fieldbus Foundation told the control and instrumentation trade press when it unveiled its FOUNDATION for Remote Operations Management (ROM) solution at a media event last month. Media representatives were on hand to learn about the new solution at the gathering held Thursday, December 1 at the Fieldbus Center, Lee College, Baytown, TX.

The Fieldbus Foundation's FOUNDATION for ROM initiative is intended to develop a unified digital infrastructure for asset management in remote applications ranging from tank farms and terminals to pipelines, offshore platforms, and even original equipment manufacturer (OEM) skids. The technology enables fieldbus connectivity to remote I/O and the leading industrial wireless protocols, including WirelessHART® and ISA 100.11a. It provides an interface to these wireless technologies and uses Electronic Device Description Language (EDDL) and function blocks to ensure interoperability with Foundation for ROM devices.

The event featured FOUNDATION for ROM technology presentations and demonstrations, followed by a tour of the Fieldbus Center at Lee College, one of the Fieldbus Foundation's FOUNDATION Certified Training Program (FCTP) partner sites. The Fieldbus Center facility is dedicated to training the next generation of process automation operators and technicians.

"FOUNDATION for ROM is important because it is the first example of being able to integrate ISA 100.11a, WirelessHART, wired HART, and wired H1 protocols into a single standard environment," said Fieldbus Foundation Global Marketing Manager Larry O'Brien. "More importantly, it is one that does not sacrifice diagnostic capabilities of the existing wireless devices. Instead, we map these capabilities into our block structure to provide a standard environment for data management, quality, and more, eliminating today's solutions which are highly customized and much more costly to maintain throughout the plant lifecycle."

O'Brien pointed out that remote operations management is one of the fastest growing segments of the process automation business. "However," he continued, "it is also caught up in the turbulence of business challenges, technological change, personnel issues, and the need for operational excellence. With FOUNDATION for ROM, industrial operations can implement a true predictive and proactive maintenance strategy for remote assets that could not previously support one. Data from devices on multiple networks, both wired and wireless, are tightly integrated into the FOUNDATION fieldbus infrastructure, providing a single environment for management of diagnostic data, alarms and alerts, data quality, control in the field capability, and object oriented block structure."

Within the FOUNDATION automation architecture, the H1 (31.25 kbit/s) and HSE (100 Mbit/s) fieldbus networks provide a distributed function block capability, with HSE serving as a larger pipeline with increased speed and throughput. The FOUNDATION for ROM solution expands these capabilities by establishing open, non-proprietary specifications for an interface to wireless field device networks, a wired HSE backhaul, and a wireless HSE backhaul integrating various wireless sensor networks such as WiFi, satellite, and cellular. As part of this solution, FOUNDATION for ROM provides a way to bring large concentrations of discrete and analog field I/O back to the control room using HSE communication. This is a key to improved integration of critical functional areas, including machinery health monitoring, safety interlocks, fire and gas detection systems, and video surveillance.

Remote diagnostics via FOUNDATION fieldbus provides significant improvement in labor costs by avoiding the need to send maintenance personnel on unnecessary trips to the field to check or diagnose instrumentation problems without the benefit of remote diagnostic data. In the oil and gas industry, for example, the use of FOUNDATION fieldbus—and the remote access to devices it affords—can reduce the exposure and risk operations personnel face in the hazardous environment of an offshore platform or safety zone.

Access to high-quality process and equipment health data ultimately increases a user's profitability by minimizing downtime and increasing production, which results from well-informed operational, maintenance, and management decisions. Experience has shown that a comprehensive remote operations management solution enables industrial organizations to respond faster to market conditions, increase efficiency, reduce downtime, and achieve higher production availability. It also minimizes the costs and risks associated with remote site visits—enabling fewer core personnel to meet the operational requirements of numerous facilities from a single secure location.

Companies participating in the development of the FOUNDATION for ROM technical specifications include: ABB, Abzil/Yamatake, Aniotek, Advanced Process Automation

Technologies, Apprion, Belden/Hirschmann, Boeing, BP, Byres Security Inc./Tofino, Chevron, Cisco, Cooper Industries/MTL, EF Johnson, Emerson Process Management, Endress+Hauser, ExxonMobil, Fieldbus Diagnostics, Fieldbus Inc., General Electric, Geode Network Technologies, HART Communication Foundation, Herman Storey Consulting, Hodson Consulting, Honeywell, Industrial Automation Networks Inc., International Society of Automation, Invensys Process Systems, Maximum Control Technologies, National Instruments, OPUS Consulting, Pepperl+Fuchs, Phoenix Contact, Profibus Nutzerorganisation e.V, R. Stahl, RuggedCom, Saudi Aramco, Shell Global Solutions, Siemens, Smar, Softing, Turck, Westlock Controls, Wi-Fi Sensors Inc., and Yokogawa.

The FOUNDATION for Remote Operations Management preliminary specification is available free for review by foundation members, and can be accessed in the Preliminary Specifications area of Fieldbus Forums. During the review cycle, anyone identifying private rights (for instance: patents, copyrights, and trademarks) within the specification should email the Fieldbus Foundation.

General information about established FOUNDATION fieldbus technical specifications is available on the Specification Page of the Fieldbus Foundation website. Or email the Fieldbus Foundation with your inquiry.

Softing first to qualify under FOUNDATION DSP program

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Softing Industrial Automation GmbH, an independent and global provider of hardware and software for industrial automation and automotive electronics, is the first company to qualify under the Fieldbus Foundation's FOUNDATION Development Services Provider (DSP) program. This program helps automation vendors get started with FOUNDATION product development by making it faster—and easier—to bring fieldbus equipment to market.

The Fieldbus Foundation launched the FOUNDATION DSP program to assist automation equipment suppliers preparing to design and manufacture products using FOUNDATION fieldbus technology. The program offers access to qualified development services providers with the know-how to make fieldbus solutions a reality. Qualified DSP participants have been evaluated to ensure they have the tools, training, and experience necessary to support a wide range of FOUNDATION fieldbus development projects. Services that can be qualified in the FOUNDATION DSP program include H1 and High Speed Ethernet fieldbus device development services, as well as host system services.

"A growing number of Fieldbus Foundation members want to enter the expanding FOUNDATION fieldbus technology market," said Stephen Mitschke, Fieldbus Foundation Manager-Fieldbus Products. "However, some organizations may view fieldbus device development as a daunting task when they have little experience or knowledge of digital bus technology. Due to limited resources, they may be required to outsource a portion of the development process. This is where the FOUNDATION DSP solution steps in. From small developers looking for assistance on a few key components, to multi-million dollar companies seeking a partner to develop an entire FOUNDATION-ready device, FOUNDATION DSP can help streamline product R&D. Best of all, the program can ensure a strong ROI by reducing staffed man-hours and maximizing the efficiency of product development," added Mitschke.

Dr. Ernst Flemming, business development manager, Softing Industrial Automation GmbH, noted that, "For Softing, as the leading provider of fieldbus-enabled products, it is key to be known to manufacturers who are interested in utilizing FOUNDATION technology. The Fieldbus Foundation's development services provider program is an excellent platform to increase our visibility in this market. The stringent rules that apply to the program ensure that only high-quality technology providers participate in the program. We very much appreciate the recognition at such a high quality level and look forward to seeing the first results shortly."

FOUNDATION DSP program participants and their development tools/services are featured in a special section of the Fieldbus Foundation's website. Participants are also authorized to display the official FOUNDATION DSP logo in their marketing materials.

To learn more about the FOUNDATION DSP program, visit the Fieldbus Foundation website, or email Fieldbus Foundation Member Services with your inquiry.

Global News & Events

FFCEEMC workshops use live FOUNDATION demos to show key technology benefits

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The Fieldbus Foundation Central & Eastern European Marketing Committee (FFCEEMC) used recently commissioned EMEA demonstration units to show the key benefits of FOUNDATION technology at its two latest workshops in Hungary and Poland.

DCS17 Conference, Hungary:

The FFCEEMC is a regular participant in the annual Distributed Control Systems conference held at Hotel Palota, Miskolc-Lillafüred, Hungary, and organized by the Research Institute of Applied Earth Sciences, University of Miskolc. The DCS17 conference, which took place October 24-26, 2011, welcomed 275 attendees from Hungary and the CEE region. The program included a half-day workshop dedicated to FOUNDATION fieldbus technology during which representatives of FFCEEMC member companies gave presentations to about 100 delegates. Topics addressed included:

- "The Economies of FOUNDATION Fieldbus" by Szilárd Szelmann (Yokogawa Hungary Ltd.)
- "FOUNDATION Fieldbus DART and Functional Safety" by György Baradits (Controlorg Ltd.)
- "Explosion Protection for FOUNDATION Fieldbus H1 – An Update on the Latest Solutions including High Power Trunk, Ex ic and DART" by Árpád Veress (Stahl Hungary Ltd.)

After the success of the live FOUNDATION demonstrations at last year's DCS16, the FFCEEMC team again ran a live demonstration using three host systems with fieldbus devices from different suppliers to show particular aspects of the technology and interoperability.

Juergen George, chairman-FFCEEMC, commented, "Once again, I'm delighted that the DCS conference program included a half day dedicated to the implementation of FOUNDATION technology. As before, our live demonstration sessions were well attended and clearly indicate the level of interest by engineers to get into the heart of FOUNDATION technology and gain first-hand experience of its functional benefits. With a significant increase in project activities in the CEE region, and a corresponding increase in FOUNDATION technology experience," he continued, "we are looking forward to an even busier seminar and roadshow schedule for 2012!"

End-User Seminar, Plock, Poland:

At its roadshow at Hotel Tumski, Plock, Poland, on November 9, 2011, the FFCEEMC welcomed 44 delegates from major end users and system integrators in the CEE region, including refineries, petrochemical plants, crude oil distribution/storage, pharmaceutical manufacturers, biofuel processors, chemical companies, engineering contractors, and EPCs.

The theme of the roadshow was "FOUNDATION Fieldbus Live," and the agenda included a comprehensive program of Polish-language presentations that provided insight into FOUNDATION fieldbus life-cycle economics. Of particular interest to attendees were the hands-on demonstrations of the building, maintenance, and modification of working FOUNDATION segments using host systems from Honeywell and Emerson Process Management together with field devices and components from several Fieldbus Foundation equipment suppliers.

"The Fieldbus Foundation's CEE marketing committee has participated in key Polish process and automation exhibitions and conferences during the last couple of years," said Juergen George, FFCEEMC chairman, "and we were pleased to return with a dedicated end-user seminar and technology demonstration. FOUNDATION technology had already been installed in at least nine major petrochemical plants in the region and we are experiencing a high level of interest from other potential users. We have already scheduled a multi-venue tour to Krakow, Katowice, and Gliwice in the south of the country in Q3, 2012 to address our established customers and to meet potential implementers of FOUNDATION technology."

The FFCEEMC includes representatives from Emerson Process Management, Honeywell, MTL/Polyco, Pepperl+Fuchs, R.Stahl/ASE, Turck, and Yokogawa.

For more information about the function and activities of the FFCEEMC, visit the Central & Eastern Europe section of the Fieldbus Foundation website, or email the committee directly.

Tokyo M&C Show 2011 spotlights FOUNDATION technology

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FOUNDATION technology was on display during the Measurement & Control Show 2011 in Tokyo, Japan. The booth, themed "FOUNDATION fieldbus is a short cut to achieving safety solutions for process industries," was sponsored by 15 member companies: ABB, Azbil (Yamatake), Cooper Industries/MTL, Emerson Process Management, Endress+Hauser, Fuji Electric, LEONI Kerpen (Ben Field Electric Japan), M&M Software, Mettler Toledo, MooreHawke, Pepperl+Fuchs, R. Stahl, Tokyo Keiso, Turck, and Yokogawa.

In the spotlight at the booth were two host systems, 11 field devices, and 22 accessories (including fieldbus power supplies, field barriers, terminal blocks, and cables). In addition, a 25-min. presentation on the basics of FOUNDATION fieldbus was given twice at the show's presentation stage.

The foundation also gave a press briefing, which was attended by Fieldbus Foundation President and CEO Rich Timoney, Fieldbus Foundation Board members Mr. Takuji Hosoya (Azbil/Yamatake) and Mr. Kimikazu Takahashi (Yokogawa). The event covered FOUNDATION for Remote Operation Management (ROM), the establishment of FDI Cooperation LLC, the FCTP training site at Waseda University, and the FOUNDATION fieldbus diagnostic study.

Visit the Fieldbus Foundation website for more information about events in the Asia-Pacific region.

Implementing technology focus of upcoming free German FOUNDATION fieldbus event

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The Fieldbus Foundation German Marketing Committee (FFGMC) will host the 7th German FOUNDATION Fieldbus Conference at the Feierabendhaus Knapsack, Hürth, Germany, on Wednesday, Feb. 1, 2012. Attendance is free.

The 2012 conference, which will follow the successful format of previous events held in Basel, Switzerland, as well as in Marl, Frankfurt/Industriepark Hoechst, and Leverkusen, Germany, is aimed at end users, engineering contractors, and prospective implementers of FOUNDATION technology. The event offers a unique opportunity for attendees to hear established end users share and discuss their experiences about implementing FOUNDATION technology. It also gives them the opportunity to meet experts from the world's leading suppliers of FOUNDATION fieldbus products and services.

Following the opening of the conference by Thomas Kasten, Chairman of the German committee, Marc Van Pelt, Vice-President, Fieldbus Foundation EMEA Operations, will give an overview of the Fieldbus Foundation's activities. The morning agenda will include presentations by Mr. Ulrich from Sasol and other current end users. They will discuss their applications experience implementing FOUNDATION fieldbus at their plants.

During the afternoon, attendees will have the opportunity to participate in a choice of two of three parallel roundtable discussion groups on tendering and planning; operation, maintenance and diagnostics; and automation concepts including Control in the Field, Fieldbus for Safety Instrumented Functions, and Remote Operations Management. The roundtable discussions will be moderated by industry experts Gerd Kielburger, chief editor, *Process*; Dr. Ulla Reutner, chief editor, *P&A*; and Armin Scheuermann, chief editor, *Chemie Technik*.

The event is sponsored by Bürkert, Emerson Process Management, Endress+Hauser, MTL Instruments, Pepperl+Fuchs, Phoenix Contact, R. Stahl, Samson, Siemens, Softing, VEGA and Yokogawa. All sponsoring companies will have table top exhibits throughout the conference with representatives available to discuss products, services, and applications during break times.

For more information, visit the German web pages of the Fieldbus Foundation website, or email the German Marketing Committee.

Technology News

First devices registered under H1 interoperability test kit 6.0

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The Fieldbus Foundation has registered the first FOUNDATION fieldbus devices based on its H1 Interoperability Test Kit (ITK) Version 6.0. Emerson Process Management and Yokogawa supplied the registered H1 (31.25 kbit/s) devices, which were tested for functionality and conformity with the FOUNDATION function block and transducer block specifications.

Emerson's registered devices include:

- TopWorx D2-FF discrete valve controller, which combines analog/digital position sensing and monitoring with FOUNDATION fieldbus communications and pilot valve output drivers for on/off applications; and
- Rosemount Analytical 1066 pH transmitter, which measures pH and ORP/redox and provides comprehensive sensor, transmitter, and calibration diagnostics to the bus via field diagnostics.

Yokogawa's registered devices include:

- Enhanced pressure transmitters, which feature innovations in multi-sensing technology that makes optimal use of the powerful characteristics of a single-crystal silicon resonant sensor. The devices also support AR, IS, SC, IT and PID function blocks; NE107 field diagnostics; and software download function.

All H1 ITK 6.0 tested devices support the latest advancements in field diagnostics per the NAMUR NE107 recommendation. They build upon the

existing, powerful diagnostic capabilities of FOUNDATION fieldbus equipment and add a greater degree of organization so that field instruments can represent their diagnostics in a more consistent way.

For example, employing NE 107 field diagnostics capabilities, non-critical diagnostics can be routed to a maintenance station for future work while critical diagnostics can be routed to operations with specific recommendations on how to resolve an instrumentation issue. This and other advanced ITK 6.0 features are fully configurable to provide maximum flexibility in user applications.

A complete list of registered FOUNDATION fieldbus products may be found in the Fieldbus Foundation registered catalog available on the Fieldbus Foundation website.

Check out the ever-growing list of registered FOUNDATION fieldbus products

A growing number of FOUNDATION fieldbus products from all segments of the automation market are being registered by the Fieldbus Foundation. The foundation is one of the only automation industry organizations with a registration program requiring mandatory testing of critical elements of its technology. This effort encompasses FOUNDATION fieldbus host systems and field devices, as well as physical layer components such as power supplies and device couplers.

The most recently registered products are shown in the table. They are listed by manufacturer, type, and model.

New and Updated Registered H1 Devices

Manufacturer	Type	Model / Device Name
Shanghai Welltech Automation Co., ITD	Pressure Transmitter	WT3600
Emerson Process Management	pH Transmitter	Rosemount Analytical 1066-P-FF
TopWorx, Inc.	Discrete Valve Controller	D2-FF
KROHNE Messtechnik	Ultrasonic Flowmeter	Optisonic GFC300
Young Tech Co., Ltd.	Smart Positioner	YT-2500
VEGA Grieshaber KG	Radiation-Based Sensor For Mass Flow Detection	WEIGHTRAC 31
VEGA Grieshaber KG	Radiation-Based Sensor For Continuous Level Measurement	FIBERTRAC 32
VEGA Grieshaber KG	Radiation-Based Sensor For Density and Level Detection	MINTRAC 31
VEGA Grieshaber KG	Radiation-Based Sensor For Density and Level Detection	MINTRAC 33
VEGA Grieshaber KG	Radiation-Based Sensor For Mass Flow Detection	WEIGHTRAC 32
VEGA Grieshaber KG	Radiation-Based Sensor For Level Detection	POINTRAC 31
VEGA Grieshaber KG	Radiation-Based Sensor For Density and Level Detection	MINTRAC 32
VEGA Grieshaber KG	Radiation-Based Sensor For Continuous Level Measurement	SOLITRAC 31
VEGA Grieshaber KG	Radiation-Based Sensor For Continuous Level Measurement	FIBERTRAC 31
Emerson Process Management	Conductivity Transmitter	CT Fieldbus Transmitter

Updated Device Description and Capability File

Manufacturer	Type	Model / Device Name
Emerson Process Management	Guided Wave Radar Level Transmitter	Rosemount 5300 Series
Emerson Process Management	Radar Level Transmitter	Rosemount 5400 Series

Host Systems

Manufacturer	Type	Model
SUPCON	Host	ECS-700

For a complete list of registered FOUNDATION fieldbus products, visit the Fieldbus Foundation website.

To learn more about FOUNDATION fieldbus interoperability, download "Understanding Host Profile & Testing Registration," a free whitepaper from the Fieldbus Foundation.

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New ABB ProcessMaster 300 electromagnetic flowmeter offers a wide range of liners, electrodes, and sizes to meet the needs of the most demanding process applications in sectors as diverse as chemical, power, oil and gas, pulp and paper, and metals and mining.

ProcessMaster 300 is easy to use, versatile, reasonably priced, and said to be the most accurate flowmeter tailored for process applications. It is a flowmeter with base functionality, short delivery, simple and clear documentation, and available FOUNDATION fieldbus connectivity.

For more information on the ProcessMaster 300 and related products, visit the ABB Website.

Cobalt Process website offers convenient way to buy Fieldbus products online

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If you have ever struggled to find FOUNDATION fieldbus and Profibus PA physical layer supplies online, the Cobalt Process website can help. Cobaltprocess.com offers a new "one-stop shop" to set up Fieldbus segments with a selection of FOUNDATION power supplies, device couplers, handheld diagnostic tools, and cable, along with physical layer installation tools and supplies.

To ensure system reliability, all power supplies, device couplers, and cable sold by Cobalt carry the Fieldbus Foundation Checkmark, indicating that the products have passed a rigorous test process. Cobalt also provides a 10-year warranty, which includes technical support, remote diagnostics, and even on-site diagnostic assistance for its products. If you are shopping for high-quality components at a low cost, check out the growing selection of Fieldbus products at the Cobalt Process website.

More information is available on the Cobalt Process website.

Emerson to provide automation system for Chinese lead and zinc processing plant

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Emerson Process Management has been selected to provide the process automation system for Yunnann Chihong Zinc & Germanium Co. Ltd.'s Yunnan Huize lead and zinc processing plant. The plant, in Yunnan Province, China, produces 100,000 tons of zinc and 60,000 tons of lead per year. The company plans to expand smelting capacity to a million tons in the next five years.

The new automation system will help improve smelting efficiency and reduce energy consumption in the lead ISA furnace process and zinc pyrometallurgy process and boost efficiency in sulfur dioxide emission control and waste heat recovery. Emerson will provide a state-of-the-art control solution that includes its DeltaV™ digital automation system with DeltaV S-Series hardware, AMS Suite asset management software, and smart field devices using FOUNDATION fieldbus and IEC 62591 (*Wireless*HART®) communications technology.

For more information, visit the Emerson Process Management website.

Microcyber OEM solution updates Fieldbus devices quickly, easily

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Microcyber's Fieldbus OEM Solution helps users upgrade FOUNDATION fieldbus devices quickly and easily. The newly designed FOUNDATION fieldbus H1 communication boards are customized to meet specific requirements, allowing traditional instruments to be upgraded to FOUNDATION fieldbus devices quickly. The boards include a stack, function blocks, communication circuit, and interface circuit.

Microcyber also provides technical support during FOUNDATION fieldbus registration and integration testing with a variety of DCS systems. FOUNDATION fieldbus interoperability test kit (ITK) pre-tests also are available.

Find more—including case studies and datasheets describing the Fieldbus OEM solution—on the Microcyber Website

Pepperl+Fuchs guide helps users with FieldConnex® infrastructure applications

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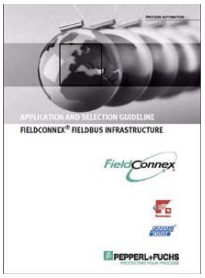

Pepperl+Fuchs *Application and Selection Guideline for the FieldConnex® Fieldbus Infrastructure* quickly walks FOUNDATION fieldbus and Profibus users through a logical process to identify the proper application of all Pepperl+Fuchs FieldConnex bus solutions for use in general purpose and hazardous areas.

The *application* portion of the guide provides useful information according to area rating and method of protection. This section also includes information on the most commonly used FieldConnex products, applicable standards, and installation rules.

The *selection* portion of the guide provides a comprehensive tool for picking the correct FieldConnex product for your application. Using the tables in the selection guide makes it easy to choose the proper products for power and field. Products are divided by bus, method of protection, DCS connection, and product attributes.

For more information, visit the Pepperl+Fuchs website.

Record numbers attend 10th annual Rockwell Process Solutions User Group

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Record numbers attended the recent 10th annual Process Solutions User Group (PSUG), presented by Rockwell Automation in conjunction with Automation Fair. Customer attendance grew more than 30% from last year, with a gathering 837 on hand to hear keynote speaker Marty Edwards from the U.S. Department of Homeland Security discuss the evolution of control systems and cyber security.

In addition, 26 customers shared how they overcame day-to-day process challenges using the PlantPAx process automation system as their process solution. Among the presenters was AMC Automation & Control, which discussed its implementation of PlantPAx with FOUNDATION Fieldbus technology on an offshore platform. Attendees also had the opportunity to give feedback to Rockwell Automation on new product features, functions, and offerings.

Are you interested in what Rockwell Automation customers had to say at PSUG? Check out videos of their presentations, which are available online.

More information is also available online about Rockwell Automation process solutions and Rockwell Automation products and systems overall.

Smar OPC server improves access to FOUNDATION devices

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Traditional asset management systems require that all device conditions and calibration activities be checked and entered manually. The Fieldbus technology used in Smar's System302 process control system has made it possible for the Smar AssetView online plant asset management system to access new and valuable functions, such as diagnostic and operation statistics, equipment identification, and calibration history stored in the equipment itself.

A modern control system needs more than just a configuring and monitoring tool. To monitor the condition of the control system, a plant requires an asset management system that has configuring and monitoring functions, in addition to features for field device calibration, diagnostic, identification, and setup. Smar's Alarm & Event OPC Server provides high-performance access to FOUNDATION fieldbus devices. Once the user has configured a FOUNDATION fieldbus device to report alarms, the OPC server will pass the alarms and events to AssetView automatically.

Product highlights include:

- Device calibration
- Plant condition monitoring
- Predictive and proactive maintenance
- Device diagnostics and information storage
- Comparison between former and new diagnostic results
- Comparison between former and current configurations
- Device management via the Internet
- Audit and statistics reports

For more information, visit the Smar website.

Yokogawa service solutions help optimize plant asset effectiveness, performance

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Yokogawa InsightSuiteAE consists of key solution services for the company's VigilantPlant Asset Excellence initiative, striving to improve operations and maintenance and maximize the reliability and availability of plant assets by achieving real utilization of field digital technology.

The expansion of FOUNDATION fieldbus technology has drastically increased the amount of information that can be obtained from field devices. Appropriate system and experiential knowledge is important to fully utilize large amounts of information. Yokogawa solution services, through InsightSuiteAE, provide the best tools and consulting services to the customer to further utilize field digital information. It also prioritizes field digital information, is easy to use, and provides support for establishing maintenance workflows.

Yokogawa Asset Excellence Solutions include:

1. ***Plant Resource Manager (PRM).*** PRM is a tool that provides online access to all field devices via a field digital network so that essential management tasks such as changing device parameters can be completed.
2. ***Field Asset KPI Report.*** Based on information gathered from field devices, the generated KPI reports help visualize which device or process interface is likely to experience an abnormality.
3. ***Consulting Services.*** Using accumulated know-how and expertise, Yokogawa offers baseline tuning of field digital-based systems and consulting services to correct problems identified in KPI reports. Consulting reports present proposals on how to make use of device information, which may include use of PRM to optimize daily maintenance workflows.

For more information, visit the Yokogawa Website.

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