

» [Newsletter Archive](#)



**February 2010**

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**Featured This Month**



**In This Issue...**

**Foundation Briefs**

2010 General Assembly set for Houston; Reliance Industries exec to give keynote  
 Opportunity for members: Sponsorships available for 2010 General Assembly  
 Multaqa 2009—Middle East hosts another successful EUC conference

**Global News & Events**

Frankfurt, Germany to host fieldbus developer training classes in March  
 FOUNDATION technology seminars scheduled across South Africa  
 Fieldbus Foundation offers educational events worldwide

**End User Information**

Emerson uses Fieldbus, WirelessHART, Wi-Fi to automate Swedish plant

**Products & Solutions**

ABB seminars help end users harness 'the power of integration'

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[Endress+Hauser plans Fieldbus technology training courses for 2010](#)  
[New line card covers all MooreHawke Fieldbus physical layer devices](#)  
[MTL diagnostics module adds Enhanced EDDL functions](#)  
[Rockwell's PlantPAx system wins Control Readers' Choice award](#)  
[New Softing fieldbus kit retrofits existing devices for H1 networks](#)  
[Softing's certified Fieldbus communication DTM intended for HSE linking device](#)



## Foundation Briefs

### 2010 General Assembly set for Houston; Reliance Industries exec to give keynote



The world's leading suppliers and end users of FOUNDATION fieldbus are expected to be on hand in Houston March 24-25 for the Fieldbus Foundation's 2010 General Assembly. The key automation industry event, which will take place at the Houstonian Hotel, will highlight the benefits of FOUNDATION Fieldbus and focus on the latest FOUNDATION technology developments.

Themed "FOUNDATION Fieldbus—Asset Management Made Easy," the 2010 General Assembly will include a comprehensive, end-user-oriented agenda consisting of fieldbus project case studies and tabletop exhibits. Wednesday's program will feature a keynote address by prominent industry executive B.R. Mehta, senior vice president at Reliance Industries Ltd. Mehta will describe his company's installation of FOUNDATION fieldbus at the new Jamnagar Refinery & Petrochemicals complex in Jamnagar, Western India.

Mehta has more than 36 years experience in the refinery and petrochemicals industries and has worked on engineering projects in the field of control systems and instrumentation for the Patalganga, Hazira, and Jamnagar Refinery & Petrochemicals complexes during his 24 years with the Reliance Group. He is chairman of the Fieldbus Foundation End User Council—India and a member of the foundation's End User Advisory Council (EUAC) worldwide. Mehta has also been chairman of the Instrumentation Experts Club in Mumbai, India, for the past seven years, and sits on the Board of Governors for Automation 2010—India's largest industrial automation exhibition and conference planned for September 21-24 in Mumbai.

The "FOUNDATION Fieldbus—Asset Management Made Easy" program will also include updates on the latest FOUNDATION technology developments, and technical presentations by prominent fieldbus end users. The day will conclude with a reception for all attendees.

The Fieldbus Foundation will conduct its annual business meeting on Thursday, March 25.

Houston was a logical choice as the site of this year's General Assembly, said Fieldbus Foundation President and CEO Rich Timoney, because the U.S. Gulf Coast region is one of the most developed markets for FOUNDATION technology and arguably the central hub of the process automation industry in North America.

"The 2010 General Assembly program," said Timoney, "will highlight the advantages of FOUNDATION fieldbus as a solution for improving plant asset management, reliability, and economic performance. Our technology is advancing to meet the needs of the process industries, including major developments such as FOUNDATION for Safety Instrumented Functions (FF-SIF), control in the field (CIF), field diagnostics, and wireless. We are excited to welcome General Assembly attendees from around the world to our event in Houston."

For more details about the event, including registration information, visit the Fieldbus Foundation [Website](#), or call the Fieldbus Foundation at 512-794-8890.

[Return to Top](#)

### Opportunity for members: Sponsorships available for 2010 General Assembly

The Fieldbus Foundation is offering sponsorships for its 2010 General Assembly. Members won't want to miss this chance to take center stage at the year's most important fieldbus technology gathering. Sponsorship opportunities include:



- Tier I—Tabletop space to display registered devices, compliant hosts, and fieldbus tools and accessories; company logo on event signage and in program listing; and a copy of the attendee list.

- Tier II—Company logo on event signage and in program listing; plus a copy of the attendee list.

More information about the General Assembly sponsorships is available on the Fieldbus Foundation [Website](#). Sponsors must complete a sponsorship registration form and return it to the foundation. Sponsorship forms may be faxed to the Fieldbus Foundation at 512-794-8893. Direct questions to [Talon Petty](#) at the Fieldbus Foundation by phone at 512-794-8890, ext. 21, or by email.

[Return to Top](#)

### Multaqa 2009—Middle East hosts another successful EUC conference



The FOUNDATION Fieldbus End User Council—Middle East (FFEUC-ME) and Fieldbus Foundation Middle East Marketing Committee (FFMEMC) were pleased with the success of Multaqa 2009, the 5th annual FOUNDATION Fieldbus Middle East End User Council (EUC) Conference held at the Hotel Ramada Plaza in Doha, Qatar, Dec. 15-16, 2009.

Rich Timoney, Fieldbus Foundation president and CEO, led the inauguration ceremony and welcomed the event's guests of honor: Jassim Saddiq, assistant engineering manager, Qatar Petroleum; and Sultan Ameen, head of maintenance, SEEF. He also updated the 170 conference participants on foundation activities and developments around the world.

End users, system integrators, and engineers from across the Middle East region participated in an extensive two-day program featuring FOUNDATION fieldbus installation case studies and technical presentations by leading Fieldbus experts. ADMA-OPCO, Saudi Aramco, and Qatar Vinyl Co. shared project implementation experiences. Technical presentations addressed key topics such as FOUNDATION Fieldbus for Safety Instrumented Functions (FF-SIF), FOUNDATION fieldbus in hazardous areas, wireless systems, CAPEX and OPEX savings, asset management, commissioning experiences, maintenance and interoperability issues, and field diagnostics.

In addition to the presentation program, a tabletop exhibit featuring FOUNDATION-compliant products and solutions from event sponsors offered the opportunity for attendees to discuss fieldbus applications with a number of Fieldbus Foundation member companies. Event sponsors included ABB, Beka Associates, Emerson Process Management, Endress+Hauser, Hirschmann, Honeywell, Invensys, Krohne, Pepperl+Fuchs, Magnetrol, Metso, MooreHawke, MTL, Rockwell Automation, R.Stahl, Softing, Turck, and Yokogawa.



The new FFEUC-ME committee, established in June 2009, includes Majid Al Braik, ADMA OPCO, chairman; Nilangshu Dey, Qatar Petroleum, vice-chairman; Fahad Al Hamad, Saudi Aramco, treasurer; Indira Molina, ADCO, secretary; and Djamel Bari, ADMA OPCO, communications officer. The group is committed to three key objectives:

- Educate and assist process industries across the Middle East in the adoption of FOUNDATION technology;
- Provide a forum to exchange information among end users within the region; and
- Assist the FFMEMC in establishing FOUNDATION fieldbus training centers across the Middle East.

FFEUC-ME Chairman Majid Al Braik was pleased with the feedback from Multaqa 2009 attendees. He commented, "The FFEUC-ME is comprised of many major end users, including representatives of key oil and gas and petroleum companies throughout the Middle East. End user forums such as Multaqa allow a multi-directional flow of information between the developers of FOUNDATION fieldbus, implementers and prospective implementers of the technology, and suppliers of equipment and systems facilitating implementation of fieldbus-based control solutions."

For more information about future Middle East events, visit the [Fieldbus Foundation Website](#).

[Return to Top](#)

## Global News & Events

### Frankfurt, Germany to host fieldbus developer training classes in March



FOUNDATION fieldbus product developers will be able to attend training classes in Frankfurt, Germany on March 16-19, 2010. Classes will be held at BIS Prozesstechnik GmbH in the Industriepark Höchst next to the Frankfurt International Airport. A certified FOUNDATION Fieldbus Center of Excellence since May 2004, BIS Prozesstechnik GmbH is involved with the Fieldbus Foundation's Certified Training Program, which is designed to meet the educational requirements of process engineering personnel, process operators, and instrumentation and control technicians, and to raise the visibility and prestige of institutions delivering FOUNDATION fieldbus training to a new and exclusive level.

Frankfort will offer two comprehensive developer courses: "Introduction to FOUNDATION Fieldbus" on Tuesday, March 16th; and "Advanced Principles of FOUNDATION Fieldbus" March 17th-19th. The vendor-neutral courses are designed for beginning and advanced fieldbus development professionals, respectively.

"Introduction to FOUNDATION Fieldbus" is intended for developers, end users, marketing professionals, applications engineers, system integrators, and others interested in acquiring a fundamental knowledge of FOUNDATION technology. Students will become familiar with basic concepts and new terminology related to the FOUNDATION integrated architecture. They will learn the key strategies for wiring and

installing a fieldbus network. Design issues such as power requirements, device types, and topologies will be especially emphasized.

This course assumes little or no prior knowledge of FOUNDATION technology. However, students should be familiar with process control and the existing 4-20 mA technology found in present day installations.

"Advanced Principles of FOUNDATION Fieldbus" is intended for manufacturers and developers of fieldbus hardware and software. The course is best suited for development engineers, test engineers, and all who wish to understand the detailed inner workings of a fieldbus device. "Introduction to FOUNDATION Fieldbus" is a prerequisite for this advanced class. Students should be familiar with basic FOUNDATION technology terminology, and have a general understanding of its communications protocol, function block execution, linkages, and DDs.

Register for a developer training class today!

For more information, visit the developer training page on the Fieldbus Foundation [Website](#).

To register for an upcoming training course at BIS Prozesstechnik GmbH, download the training registration form from the Fieldbus Foundation Website and [email it](#), or fax it to 1-512-794-8893.

[Return to Top](#)

## FOUNDATION technology seminars scheduled across South Africa



Members of the Fieldbus Foundation Southern Africa Marketing Committee (FFSAMC) were out and about throughout 2009. The success of numerous end user-oriented events demonstrated the growing demand for FOUNDATION fieldbus across South Africa's expanding industrial market.

For example, current and prospective users of FOUNDATION technology were able to meet members of the FFSAMC on their stand at the Process Show 2009 in Johannesburg from May 19-21. Exhibit sponsors included ABB, Emerson Process Management/Alpret Controls, Endress+Hauser, MTL/Extech, Metso Automation, Pepperl+Fuchs/P+F Products, Siemens, STC-SA, Turck/RET Automation Controls, Weidmüller/Phambilli Interface, and Yokogawa.

The FFSAMC also participated in the 2009 series of CONTROL Roadshows across South Africa. These dedicated control, measurement, and instrumentation exhibits focus on automation in industry. Based on the success of the 2009 road shows, the FFSAMC plans to participate in the 2010 events at the following South Africa locations:

- March 11: Durban
- July 22: Secunda
- August 26: Port Elizabeth
- September 16: Rustenburg
- October 21: Vaal

FFSAMC has also announced a series of end-user seminars to be held in Johannesburg and Cape Town in May 2010. The dates include:

- May 10: Bryanston Country Club, Johannesburg
- May 11: Bryanston Country Club, Johannesburg
- May 13: Casia@Nitida Wine Estate, Durbanville, Cape Town

These one-day end-user seminars are designed to give delegates a basic understanding of FOUNDATION fieldbus, including the economic justifications for selecting digital communications technology for their facilities. Concepts used will be based upon fieldbus best practices from Greenfield facilities around the world, and will address the associated life cycle impact of FOUNDATION technology on engineering (including documentation and workflow), start-up and commissioning, and operational



excellence and asset management.

The seminar agenda will include presentations on the following topics:

- Understanding the fieldbus physical layer;
- Methods for powering the bus and FOUNDATION communications (for example, macro cycles, function blocks, etc.); and
- Basic elements of segment design.

Seminars will run from 9:00 am to 5:00 pm (registration at 8:30 am) and cost R500 per delegate.

Registration is limited so reserve your place now! Bookings must be received no later than March 19, 2010. To register, contact [Debbie Scott](#).

For more information about these and future South Africa events, visit the Fieldbus Foundation [Website](#).

[Return to Top](#)

### Fieldbus Foundation offers educational events worldwide

The Fieldbus Foundation is developing informational and educational events to be held around the world in 2010. Make plans now to attend an event in your area.

LOCATION	DATE	EVENT and CONTACT INFORMATION
<b>EVENTS IN NORTH AMERICA</b>		
Vancouver, BC, Canada	March 11, 2010	FOUNDATION Fieldbus End User Seminar More information to come
St. Louis, MO, USA	April 29, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Beaumont, TX, USA	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
New Orleans, LA, USA	To be determined	Process Management Academy (formerly Interkama) More information to come
<b>EVENTS IN EMEA (EUROPE, MIDDLE-EAST, AFRICA)</b>		
Durban, South Africa	March 11, 2010	Control Roadshow <a href="#">Click here to email for more information</a>
Gdansk, Poland	March 16-17, 2010	Central & Eastern European Marketing Committee Meeting <a href="#">Click here for more information</a>
Warsaw, Poland	March 25, 2010	Fieldbus Lifecycle Economics presentation, Automation 2010 International Trade Show & Conf. (Room B2 14.00) <a href="#">Click here for more information</a>
Hannover, Germany	April 19-23, 2010	Process Automation--Hannover Messe <a href="#">Click here for more information</a>
Johannesburg, South Africa	May 10, 2010	Introduction to FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Johannesburg, South Africa	May 11, 2010	Introduction to FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Durbanville, South Africa	May 13, 2010	Introduction to FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Cardiff, Wales	May 18,	FOUNDATION Fieldbus End User Seminar

	2010	<a href="#">Click here to email for more information</a>
Cork, Ireland	May 20, 2010	FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Secunda, South Africa	July 22, 2010	Control Roadshow <a href="#">Click here to email for more information</a>
Port Elizabeth, South Africa	Aug. 26, 2010	Control Roadshow <a href="#">Click here to email for more information</a>
Rustenburg, South Africa	Sept. 16, 2010	Control Roadshow <a href="#">Click here to email for more information</a>
Norwich, England	Oct. 12, 2010	FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Twickenham, England	Oct. 14, 2010	FOUNDATION Fieldbus End User Seminar <a href="#">Click here to email for more information</a>
Vaal, South Africa	Oct. 21, 2010	Control Roadshow <a href="#">Click here to email for more information</a>
<b>EVENTS IN ASIA/PACIFIC</b>		
Japan	March 11, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Singapore	March 16, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Vietnam	March 18, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Xian, China	April 15, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Xiamen, China	July 15, 2010	FOUNDATION Fieldbus End User Seminar More information to come
Nanjing, China	Nov. 11, 2010	FOUNDATION Fieldbus End User Seminar More information to come
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
The Philippines	To be determined	FOUNDATION Fieldbus End User Seminar More information to come
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
<b>EVENTS IN INDIA</b>		
Mumbai, India	Sept. 16-19, 2010	Automation 2010 More information to come

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

[Return to Top](#)

## End User Information

### Emerson uses Fieldbus, WirelessHART, Wi-Fi to automate Swedish plant



Emerson Process Management's PlantWeb digital plant architecture, incorporating FOUNDATION fieldbus technology, WirelessHART, and Wi-Fi, is being used to automate a pilot ethanol processing plant built by Chematur Engineering AB.

Located in Karlskoga, Sweden, the plant is demonstrating the company's unique Biostil® production process, and enabling its customers to try out the latest process automation technologies for their raw materials. The Biostil process allows ethanol to be produced from almost any raw material, including wheat, sugar beets, and rice. The plant, a smaller version of ethanol processing plants designed and installed by Chematur Engineering worldwide, required highly flexible network architecture because its layout and function will be modified over time as improvements are made in the Biostil process.

"We aimed to show that Chematur Engineering is at the forefront of process plant design by implementing the most advanced process automation technology available," explained Johan Selinder, manager, electrical and control design, Chematur Engineering AB. "At the same time, we needed a very flexible network architecture that is easy to modify, develop, and expand."

Among Chematur's goals was to show its customers that FOUNDATION fieldbus and wireless technologies are easy to use, stable, reliable, and a good investment.

For more information, visit the Emerson Process Management [Website](#).

[Return to Top](#)

## Products & Solutions

### ABB seminars help end users harness 'the power of integration'



Do you know about FOUNDATION fieldbus High Speed Ethernet (HSE) and the advantages of a FOUNDATION automation architecture built around Linking Devices? Would you like to know more about EDDL benefits and how to use one of the first registered host systems with that functionality? These subjects are two among many to be covered at more than 100 educational seminars planned for ABB's Automation & Power World 2010, to be held May 18-20 in Houston, TX.

Accompanying the seminars will be 90,000 sq ft of exhibit space displaying ABB integrated power and process products and services. A highlight of the exhibit will be the Unified Fieldbus Infrastructure, where FOUNDATION fieldbus is one of the key components that create a highly integrated environment. This environment can be used to optimize two key plant resources: the process and the electrical systems critical to overall business success and profitability.

Mark your calendar today and plan to attend this important event! Come see how "the power of integration" from ABB can improve your business.

Register to attend on the ABB [Website](#). For more information, [email David Huffman](#) or call him at 1-440-585-5731.

[Return to Top](#)

## Endress+Hauser plans Fieldbus technology training courses for 2010



Endress+Hauser will be offering training in FOUNDATION technology again in 2010. In addition to the Certified Technical Specialist course conducted in association with STC Brielle in Reinach, Switzerland, the company will provide general technology courses at its training centers in North and South America, the Middle East, and Southeast Asia. Endress+Hauser will also organize on request on-site training tailored to customer requirements.

The Fieldbus training courses include a mix of theory and hands-on experience. End users will learn about network design, engineering, device integration, commissioning, and troubleshooting on a number of different platforms. They will also benefit from Endress+Hauser's experience in the oil and gas, water, and other industries.

For more information and the latest training dates, contact your nearest Endress+Hauser Sales Center, or visit the [Endress+Hauser Website](#).

[Return to Top](#)

## New line card covers all MooreHawke Fieldbus physical layer devices



MooreHawke's new Fieldbus Solutions Line Card describes the company's complete line of fieldbus physical layer devices that let users connect, protect, power, and terminate fieldbus networks simply and easily.

Included is the company's industry-first redundant fieldbus physical layer, the Trunksafe Fault-Tolerant Fieldbus System, which provides a cost-effective, highly reliable strategy to maintain continuous communications between field devices and a DCS in the event of a single point failure (such as an open- or short-circuit) on a fieldbus segment.

Trunkguard includes the first device couplers to provide patented automatic segment termination with the added advantage of fully auto-resetting spur short circuit protection. They enable fast and easy implementation of fieldbus systems by connecting multiple devices to a main fieldbus trunk.

MooreHawke's Route-Master Fieldbus System uses a patented split-architecture design to deliver the highest segment current—350 mA per segment—to a

hazardous area of any intrinsically-safe fieldbus system. The ATEX-approved version can be installed in IIB and IIC areas connecting FISCO or Entity devices.

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

[Return to Top](#)

## MTL diagnostics module adds enhanced EDDL functions

MTL Instruments has developed enhanced EDDL functions for its F809F diagnostics module. The enhancements include:

- Graphical homepage with a status overview of key parameters
- Diagnosis view for instrument technicians
- Configuration view for advanced users
- Alarm optimization wizard
- NAMUR NE107 compliant status display



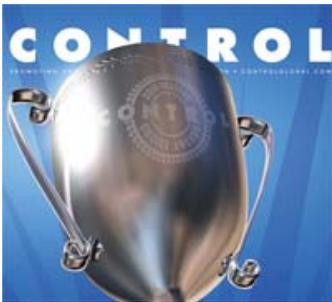
The F809F Fieldbus diagnostic module has a large installed base of users who like its easy integration into fieldbus control systems over FOUNDATION fieldbus H1. The enhanced EDDL interface provides a simple display of the status of each fieldbus segment, a more detailed view of the parameters and any alerts for the instrument technician, and an advanced user view with configuration options. Support of enhanced EDDL technology by the on-line diagnostic module and the fieldbus control system make it much easier to use the large amount of data gathered by the module.

In addition, the F809F enhanced EDDL also displays the NAMUR NE107 symbol providing a status summary for the system and eight segment transducer blocks on the home page. A status summary is also displayed on each segment or device page.

For more information, visit the [MTL Website](#) or [email Roger Highton](#) at MTL Instruments.

[Return to Top](#)

## Rockwell's PlantPAx system wins Control Readers' Choice award



Rockwell Automation's commitment to a single, plant-wide control platform for process, discrete, batch, motion, and safety disciplines earned top honors from Control Magazine's Readers' Choice Awards. Ranked highest in 34 "Best in Control" industry and product categories, Rockwell Automation took home more first-place finishes than any other supplier.

Particularly noteworthy was the demonstrated preference for Rockwell Automation in numerous process industries, including beverage, food, electric power generation, metals/minerals/mining, and water and wastewater processing. In addition, key instrumentation partner Endress+Hauser took top honors in ultrasonic gauges and in switches based on electrical property and vibration principles.

The Control Magazine Readers' Choice Award is an unaided product poll. Respondents select suppliers that are top-of-mind rather than choose from a pre-defined list. Control magazine is dedicated to the global process automation market with a readership of more than 65,000 engineering, operations, and management professionals.

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

[Return to Top](#)

## New Softing fieldbus kit retrofits existing devices for H1 networks

Softing's Fieldbus Kit 2 (FBK-2) is an industry-hardened, economical, off-the-shelf communication board for the rapid development of FOUNDATION fieldbus H1 and Profibus PA field devices for intrinsically safe (IS) and non-intrinsically safe environments. The FBK-2 is designed to:

- Significantly reduce the protocol stack integration effort; and
- Seamlessly integrate with an existing analog/HART slave device to create a complete fieldbus product.

Features and benefits include:

- On-board HART and serial Modbus/RTU interface to bridge existing devices into the H1 or PA world;
- Pre-certified, ready-to-use protocol stack and communication board hardware;
- No additional costs for fieldbus physical layer testing;
- Software maintenance included to ensure continual compliance with ever-evolving specifications;
- Small footprint (40x40 mm) to fit into most existing device housings; and
- A large number of companies who rely on this mature solution.



In addition, the FBK-2 is qualified for ATEX–EEx II 2G (1) GD EExia IIC T4 certification.

Softing's FOUNDATION fieldbus development team will customize this device on request to fit specific requirements.

For more information, contact Softing North America Inc. at 29 Water St., suite 301, Newburyport, MA 01950; tel: 978-499-9650; fax: 978-499-9654; or [email Ken Hoover](mailto:Ken.Hoover@softing.com) at the company or visit the [Softing Website](http://www.softing.com).

[Return to Top](#)

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### Softing's certified Fieldbus communication DTM intended for HSE linking device



New communication DTM from Softing, a technological leader in providing key components for FOUNDATION fieldbus and Profibus PA devices, is intended for its popular High Speed Ethernet Linking Device (FG-100 FF/HSE).

The newly developed FOUNDATION fieldbus communications DTM (HSEdtm) conforms to FDT specification V1.2 and has passed the official DTM certification test. It provides all necessary functionality to integrate Softing's FG-100 FF/HSE seamlessly with FDT container applications such as fdtCONTAINER, FieldCare, PACTware, and other FDT frame applications.

In addition, the HSEdtm is designed to detect devices on H1 networks automatically. The resulting live-list is accompanied with detailed information on all detected devices.

Softing's Linking Device provides transparent access to field devices connected to H1 networks from supervisory control systems and management systems connected via High Speed Ethernet (HSE). The FG-100 FF/HSE is a compact and high-performance gateway between four H1 networks and HSE. For each H1 channel separately, the Linking Device can be configured to take on the role of Link Master or act as a visitor. In addition, Softing's certified FG-100 H1/HSE complies with Class 42c of HSE profile specification FF-941 1.3, eliminating the need to locally configure field devices and enabling a user to perform all configuration settings through HSE.

For more information, contact Softing North America Inc. at 29 Water St., suite 301, Newburyport, MA 01950; tel: 978-499-9650; fax: 978-499-9654; or [email Ken Hoover](mailto:Ken.Hoover@softing.com) at the company or visit the [Softing Website](http://www.softing.com).

[Return to Top](#)

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