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**September 2008**

*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."

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**FOUNDATION Fieldbus ...  
we put the pieces in place**



**Endress+Hauser**   
People for Process Automation

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**FOUNDATION BRIEFS**

**DuPont executive joins foundation board of directors**

The newest member of the Fieldbus Foundation's board of directors is Dr. Farshad Amir, technology manager of instrument and control systems for DuPont Engineering. Amir replaces Jim Porter, who is retiring from DuPont.



The Fieldbus Foundation board is now composed of John Berra, Emerson Process Management, chairman, and members Kenneth Deken, Rockwell Automation; David Eisner, Honeywell; Motofumi Matsumura, Fuji; Satoru Kurosu, Yokogawa; Farshad Amir, DuPont; Dr. Gunther Kegel, Pepperl+Fuchs; Timm Madden, ExxonMobil; Mark Taft, ABB; Hirozume Sone, Yamatake Corp.; John Eva, Invensys; Hans-Georg Kumpfmüller, Siemens AG; and Fred Cohn, Schneider Electric.

Congratulating Amir on his appointment to the foundation board, Fieldbus Foundation President and CEO Richard Timoney said: "Farshad Amir holds an important automation technology position at a leading end-user company. His expertise in the area of instrumentation and process control systems will be a significant asset to our board."

Amir has more than 24 years of experience with DuPont in the areas of process control, automation systems, and the application of information technology to manufacturing operations. As technology manager of instrument and control systems for DuPont Engineering, he leads the organization in designing and engineering process automation systems and technology among DuPont operations worldwide.

In his career at DuPont, Amir has led multiple project teams at various plant sites to deploy state-of-the-art manufacturing automation systems. He has also served as a standards committee director for the Instrumentation, Systems, and Automation Society (ISA) since 2003. He holds a PhD in chemical engineering from Lehigh University, Bethlehem, PA.

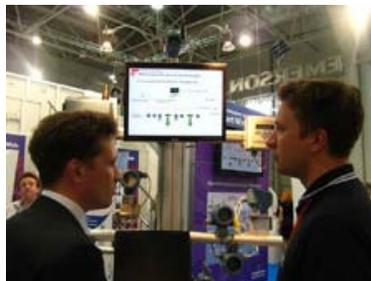
For more information, visit the [Fieldbus Foundation Website](#).

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**GLOBAL NEWS & EVENTS**

**Moscow trade show attendees learn about FOUNDATION Fieldbus**

Fieldbus Foundation member companies gathered in Moscow recently to provide information about FOUNDATION Fieldbus technology to oil and gas industry tradeshow attendees.



Companies including Emerson Process Management, Honeywell, MTL, and Yokogawa participated in the NEFTEGAZ 2008 exhibition, an international tradeshow for the oil and gas industry, held June 24-26 at the Expocentre in Moscow, Russia. The exhibition ran concurrently with the Russian Petroleum & Gas Congress strategic business conference.

Activities included a series of eight presentations by the Fieldbus Foundation's Commonwealth



of Independent States and Baltics Marketing Committee (FFCIS&B MC), held at the Emerson Process Management and MTL stands. Based on the theme "FOUNDATION Technology—Where to Begin," the presentations introduced attendees to FOUNDATION fieldbus and its value to process integrity, business intelligence, and open scalable integration of information across processing plants. Demonstrations of live FOUNDATION fieldbus systems provided hands-on experience and the opportunity to discuss the technology with experts from the host companies and members of the FFCIS&B MC.

Dmitri Volkov, FFCIS&B chairman, said he was delighted with the interest show attendees expressed in the practical benefits of FOUNDATION technology. "The formula of the presentations worked very well," said Volkov. "By holding a focused presentation and demonstration several times throughout the show on two key stands at the exhibition, we were able to reach an audience of about 50 end users. Visitors welcomed the flexibility of choosing a time to suit their schedules and also appreciated the flexible approach of the presenters to suit the audience."

The NEFTEGAZ/MIOGE exhibition attracts participation of leading manufacturers of oil and gas production equipment and oil refining equipment from across the globe. More than 900 exhibitors and 32,000 visitors registered for the event.

For more information, [email the FFCIS&B MC](#).

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### Fieldbus technology seminar draws attention in France

The Fieldbus Foundation's French Marketing Committee (FF FMC) hosted a successful end user seminar and demonstration at L'Hostellerie du Lac Bleu in Cabriès, nr, Martigues, France, on June 12, 2008. The half-day seminar covered FOUNDATION fieldbus configuration, addressing, and design; FOUNDATION fieldbus topology; integration in the ATEX world; and trunk cabling, as well as the advantages of FOUNDATION technology to business intelligence, process integrity, and open, scalable integration.



Claudie Damade, French Marketing Committee chair, said she was pleased with the number of end users attending the event. "We are pleased to have been able to take the benefits of FOUNDATION technology straight to the heart of the Martigues, Fos sur Mer, and Marseille region with its high concentration of oil, gas, refining, and chemical sites," said Damade. "This event offered attendees the opportunity to gain hands-on practical experience using live fieldbus demonstration systems during the workshops. Our plans for the next seminar and demonstration in France will be announced in due course."

Host systems from ABB, Emerson Process Management, Honeywell, Invensys, Schneider, and Yokogawa were configured with field devices from diverse suppliers to give attendees practical insights into:

- Physical diagnostics and physical segment integrity/system diagnostics, operator, and instrument profiles;
- New equipment adding and automatic addressing;
- Predictive maintenance;
- Network interfacing and Modbus Ethernet gateway;
- Non-FOUNDATION instrument integration to a FOUNDATION fieldbus network; and
- Security and availability: FOUNDATION fieldbus, ATEX, and redundancy

Attendees were invited to attend a complimentary buffet lunch following the final Q&A and wrap-up sessions to continue their discussions with presenters and FF FMC members.

More information is available by [emailing the FF FMC](#).

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## Europe, Middle East, Africa

### 'Study Day' in Sicily meets with great success!

A The Fieldbus Foundation Italian Marketing Committee, Consorzio Fieldbus Foundation-Italia, welcomed some 50 area participants to a FOUNDATION fieldbus "Study Day" this summer. The group met June 12, 2008, at the

Brucoli Hotel Venus in Priolo, Sicily in the heart of the country's oil and gas, petrochemical, chemical, power, and industrial region.



Study Day used the theme "FOUNDATION Technology in Process Automation—Protecting Your Investment and Process Integrity" to update current and prospective users of FOUNDATION technology on the developments and application of FOUNDATION fieldbus. Presentations included an introduction to FOUNDATION technology, including H1, High Speed Ethernet (HSE), and the role of function blocks and diagnostics; current developments, including remote I/O, wireless and FOUNDATION fieldbus for safety integrated functions (SIF); and the benefits to end users in terms of increased business intelligence, process integrity, and open, scalable integration. A multi-vendor live demonstration and a "frequently asked questions" session helped attendees obtain a practical appreciation for applying FOUNDATION technology in diverse installations.

Consorzio FF-Italia Chairman Massimo Guidi said he is looking forward to an increased number of training days and seminars throughout the Italian region over the next year. "The Fieldbus Foundation's commitment to developments of FOUNDATION technology and its future in a constantly changing market are clear," said Guidi. "In turn, the Italian Marketing Committee is committed to supporting its current and potential end users throughout the Italian region before, during, and after they implement FOUNDATION technology into their own processes."

For more information, [email Consorzio Fieldbus Foundation-Italia](mailto:email@Consorzio Fieldbus Foundation-Italia).

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### Fieldbus technology events planned around the world

The Fieldbus Foundation offers many informational and educational events around the globe. Make plans now to attend an event in your area.

| LOCATION                    | DATE          | EVENT and CONTACT INFORMATION   |
|-----------------------------|---------------|---|
| Pleasanton, California, USA | Oct. 2, 2008  | FOUNDATION Fieldbus End User Seminar<br><a href="#">Click here for more information</a> |
| Guangzhou, China            | Nov. 6, 2008  | FOUNDATION Fieldbus End User Seminar<br>More information to come                        |
| Savannah, Georgia, USA      | Nov. 6, 2008  | FOUNDATION Fieldbus End User Seminar<br><a href="#">Click here for more information</a> |
| Chicago, Illinois, USA      | Nov. 20, 2008 | FOUNDATION Fieldbus End User Seminar<br><a href="#">Click here for more information</a> |
|                             |               |   |

|   |                  |  |
|---|------------------|--|
| Suntec, Singapore   | Dec. 2-5, 2008   | OSEA Exhibition<br>More information to come  |
| Basle, Switzerland  | Dec. 3, 2008     | FOUNDATION Fieldbus End User Seminar<br><a href="#">Click here to email for more information</a> |
| Kuwait  | Mid-Dec., 2008   | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| Doha, Qatar   | Mid-Dec., 2008   | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| <b>FUTURE SEMINARS TO BE SCHEDULED IN SOUTH EAST ASIA</b> |                  |  |
| Thailand  | To be determined | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| Malaysia  | To be determined | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| Jakarta, Indonesia  | To be determined | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| <b>FUTURE SEMINARS TO BE SCHEDULED IN INDIA</b>           |                  |  |
| North India   | To be determined | To be determined   |
| South India   | To be determined | To be determined   |
| <b>FUTURE SEMINARS TO BE SCHEDULED IN EAST ASIA</b>       |                  |  |
| Osaka, Japan  | To be determined | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| Tokyo, Japan  | To be determined | FOUNDATION Fieldbus End User Seminar<br>More information to come                                 |
| Korea   | To be determined | To be determined   |

Click [here](#) for a complete list of events.

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### UK marketing committee announces latest road show

The next UK end-user seminar will be held in London later this month, the Fieldbus Foundation UK Marketing Committee (FF UK MC) has announced.

The latest venue in this series of end-user events will be Wembley Stadium. The seminar will take place from 9:30 am to 4:30 pm, Thursday, Sept. 25, 2008, and will follow a similar format to previous road shows, which were held at such other famous sporting locations across the UK as Madejski Football Stadium, Reading; the City of Manchester football stadium; and the Riverside Stadium, Middlesbrough.



The free seminar targets current and prospective end users, contractors, specifiers, and implementers of FOUNDATION fieldbus. Based on the theme "Fieldbus Comes Alive," the seminar will explain how FOUNDATION technology unifies process integrity, business intelligence, and open, scalable integration as part of a single, plant-wide solution. Widely used in the process industries, FOUNDATION technology provides an automation infrastructure for operational excellence.

Practical demonstrations on working fieldbus systems from a wide range of suppliers will follow brief presentations on:

- Business Intelligence: FOUNDATION technology provides a high degree of business intelligence at the infrastructural level through client/server technology and supports business processes such as production management, asset management, and enterprise-level applications. It also provides extensive diagnostics and enhanced capabilities for tracking, tracing, validation, and regulatory compliance.
- Process Integrity and Reliability: FOUNDATION technology ensures that the network

remains operational. Control in the field is enabled through the use of its extensive function block structure. The new FOUNDATION safety instrumented functions (SIF) solution is expected to revolutionize safety and critical control systems.

- Open Scalable Integration: FOUNDATION technology offers unlimited scalability and can be implemented on all process automation systems, from the smallest to the largest. Its openness and non-reliance on a particular operating system or supplier platform makes new standards easy to adopt.
- Practical Systems Implementation: How to build, maintain, and modify a segment.

Following the sessions, attendees are invited to stay for a complimentary buffet lunch and tour of the stadium facilities.

John S. Hartley, chairman of the Fieldbus Foundation UK Marketing Committee, expressed pleasure at being able to add Wembley Stadium to the list of UK seminar venues. "The UK Marketing Committee enjoys hosting its Fieldbus Foundation end-user events at some of the major sports venues across the UK," he said. "To deliver such a clear and focused message for today's enterprise in such a unique venue is very satisfying and makes for a very beneficial and memorable day."

The practical demonstrations will feature working host systems provided by ABB, Emerson Process Management, Honeywell, and Yokogawa, with devices from BEKA, Endress+Hauser, Smar, Krohne, Invensys, Topworx, and VEGA, and physical layer interfaces from MTL, MooreHawke, Pepperl+Fuchs, R. Stahl, and Turck.

To register for the Wembley end-user seminar, contact event organizer [Chris Warren](#) by email; telephone at +44 161 286 5096; or fax at +44 161 286 5093; or [email the FFUKMC](#).

For more information about activities in the UK and Ireland regions, [email the UK Marketing Committee](#) or visit the [Fieldbus Foundation Website](#).

Learn more about the [EMEA End User Council](#) by emailing the group.

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## Rockwell Automation readies for 2008 PSUG, Automation Fair

Preparations are underway for two major Rockwell Automation events, set for Nashville, Tennessee in November. The Annual Process Solutions User Group (PSUG) will take place Nov. 17-18, 2008, followed by Automation Fair 2008 on Nov. 19-20. The events, both held at the Gaylord Opryland Complex, are well known for providing "a great process learning experience in one city during the same week."



PSUG 2008, an annual process event, will facilitate peer-to-peer exchange and provide an environment where attendees can hear innovative ideas, learn about best practices, and seek solutions. Customers from diverse industries will discuss their applications. PSUG 2008 is directed especially at plant managers and information managers, process control engineers, production operations personnel, vice presidents of operations and engineering, and quality and reliability directors.

Automation Fair, called a premier industry event by many, will focus on advanced process automation products, integrated control and information architectures, and valued-add services and solutions. It includes targeted process industry forums and labs designed to provide an educational experience for professionals at all levels. The program includes more than 50 technical sessions, 20 hands-on labs, and 6 focused industry forums. More than 100 Rockwell Automation partner companies are expected to display their latest innovations and products.

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

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**TECHNOLOGY NEWS****Latest device description enhancements available**

New updates to FOUNDATION fieldbus Device Description (DD) tools and specifications are now available, the Fieldbus Foundation has announced. The releases for DD technology, which is fully compliant with IEC 61804 and the ISA104 Electronic Device Description Language (EDDL) profile, include enhanced versions of: DD Services (Version 5.1.0), DD Integrated Development Environment (Version 1.1.0), Device Description Language Interoperability Specification (FF-901), Device Description Language Specification (FF-900), and DD Library (Version 3.2).



According to Stephen Mitschke, Fieldbus Foundation's manager-fieldbus products, "The updated DD solutions build upon the robust functionality of the previous DD 5.0 release, and are intended to help device developers, system suppliers, and end users advance the performance of their FOUNDATION fieldbus products."

Mitschke indicated that the latest DD enhancements support Unicode, providing FOUNDATION fieldbus device and system suppliers with an expanded ability to write and visualize DDs using local (including Asian) languages. The enhancements also allow developers to build device-level menus to enable visualization of multiple blocks and significantly improve the device integration experience. In addition, support for new parameter attributes will ensure an enhanced user interface for accessing devices.

Support for device-level menus will become mandatory as part of the Fieldbus Foundation's host profile test and registration program, added Mitschke. Like the current device registration process, host registration will strengthen fieldbus interoperability and system integration. Hosts successfully completing registration testing will be authorized to use the foundation's official product registration symbol.

Both DD technical documents (FF-900 and FF-901) describe the new enhancements, and are included in the FOUNDATION fieldbus technical specification. The documents are available for download to all foundation members with a specification maintenance agreement from [Fieldbus Forums](#).

FOUNDATION fieldbus DD Services is a versatile development resource that makes it easier for host applications to access FOUNDATION device information and work with DDs more efficiently. Operating much like a query server for a database management system, DD Services frees hosts from the burden of decoding DD binary files. The host application constructs a request to access specific information about a device, and DD Services extracts the information from the DD binary file. The host application does not have to know the format of the DD binary file and then search the file for the information it needs.

DD Services Version 5.1.0 delivers an integrated view of fieldbus devices through DD Menus. The new release is backward-compatible with all existing DD implementations, yet offers the new features required for device registration, such as support for device-level menus and Unicode.

Device Description Integrated Development Environment (DD-IDE) provides an easy-to-use application for developing, testing, and debugging DD files. It is designed for fast, automatic code completion as the developer enters code into DD project files. The application includes an online method debugger with watch window; an integrated text editor with customizable syntax highlighting and color-coding; an output window to display progress and errors during tokenizing; customizable project settings; a global file search tool; customizable tag files; and a project resource tree for management and development.

DD-IDE Version 1.1.0 provides enhanced support for visualization and grid interface. Like DD Services, this new release is backward-compatible with all existing DD implementations, while offering new features required for device registration, such as support for device-level menus and Unicode.

DD Library provides standardized source code for all FOUNDATION fieldbus blocks and parameters, making it easy for developers to build DDs for fieldbus instrumentation. Suppliers need only implement custom blocks and other manufacturer-specific parameters. The DD Library promotes a standardized view of field-device information across manufacturers, enabling consistent configuration by users. The library is maintained to describe the most recent FOUNDATION specification.

DD Library Version 3.2 includes code for the Standard Temperature with Calibration Two Sensor block. It also provides new manufacturer names and IDs. Some unit codes have been added in response to action requests submitted for DD Library Version 3.1.

For more information about the latest DD releases, visit the [Fieldbus Foundation Website](#).

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### Final device coupler test specification released

The final FOUNDATION Device Coupler Test Specification (FF- 846 FS 1.0) has been released, the Fieldbus Foundation has announced. This specification is designed for coupler manufacturers to perform a standard set of tests against their implementation. The test cases were developed by a team of volunteers from among current foundation members that manufacture coupler products and end users interested in the availability of registered couplers.



The FOUNDATION Device Coupler Test Specification includes criteria from IEC 61158-2:2003 and additional functional tests such as input impedance, short-circuit reaction time, and bus voltage consumption.

According to Stephen Mitschke, Fieldbus Foundation manager-fieldbus products, "The foundation is one of the only automation industry organizations with a host and device registration program requiring mandatory testing of critical elements of its technology. This effort now encompasses FOUNDATION fieldbus host systems and field devices, as well as physical layer components such as power supplies and device couplers."

The Fieldbus Foundation is committed to developing more test processes for devices and components, Mitschke noted. "The device coupler specification builds upon the existing power supply specification and registration procedure," he continued, "and is intended to provide even greater robustness in FOUNDATION fieldbus systems. The resulting registered products will be tested to perform optimally with registered power supplies and conditioners, as well as registered H1 cable."

Mitschke indicated that the scope of the device coupler test specification includes wiring blocks and couplers that may support short-circuit protection. The foundation, he added, has an active working group developing Phase Two of the test specification, expected to be released in 2009, that supports couplers with electrical isolation.

A copy of the FOUNDATION Device Coupler Test Specification is available to Fieldbus Foundation members on [Fieldbus Forums](#) under "Member Forums—New Specification Forum."

For more information, call the Fieldbus Foundation at 512-794-8890 or [email member services](#).

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## END USER INFORMATION

### Emerson automation project boosts refinery performance

A digital automation project recently completed by Emerson Process Management substantially increased the reliability and performance of a Louisiana refinery.



Motiva Norco, Motiva Enterprises LLC's refinery in Norco, LA, processes 225,000 barrels a day of crude oil, making it among the largest refineries in the world. Its daily production includes about 10 million gallons of gasoline and about 7 million gallons of jet fuel.

As the [main automation contractor](#) for the project, Emerson performed engineering, project management, and installation of its [PlantWeb](#) digital architecture. At the Motiva refinery, PlantWeb uses FOUNDATION fieldbus to network Emerson's [DeltaV](#) digital systems; [Rosemount](#) flow, level, pressure, and temperature instruments; and [Fisher](#) valves with Fisher Fieldvue digital valve controllers. Predictive diagnostics information is collected by [AMS Suite: Intelligent Device Manager](#), which delivers alarms and data to operations and maintenance personnel.

The project already has yielded solid results for the facility, including its best-ever reliability utilization year on record, and increased output without the addition of new units and the huge

investment and lead time that would have been required.

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

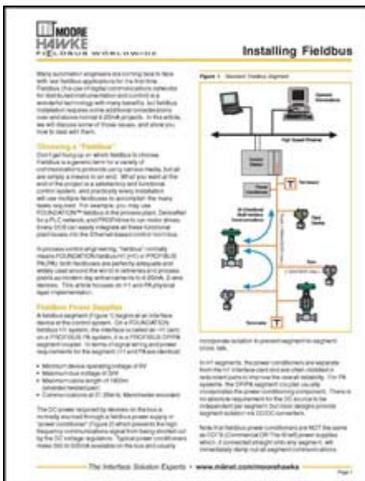
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## PRODUCTS & SOLUTIONS

### Fieldbus, instrumentation whitepapers available from MooreHawke

Moore Industries, and its fieldbus division MooreHawke, are making available an extensive selection of fieldbus and instrumentation whitepapers and articles on their Website. Among the dozens of titles offered are:

- Installing Fieldbus in Real Life Applications**  
 For the first time, automation engineers are coming face-to-face with real fieldbus applications. Although fieldbus is a wonderful technology with many benefits, its installation requires considerations over and above typical 4-20 mA projects. This article focuses on 17 real life project examples.
- Intrinsically-Safe Fieldbus for Hydrocarbon Processing Plants**  
 For about 30 years, it has been a given within the oil and gas industry that intrinsic safety (IS) is the natural technique for explosion-proof protection of electronic instruments. Fieldbus users now want complex processing and digital communications to and from many devices in intrinsically safe applications. The key is delivering enough power to a large number of field devices.
- Implementing FOUNDATION Fieldbus Networks in Hazardous Areas**  
 Many engineers today find themselves questioning which bus technology to implement in their facility. As if that topic isn't difficult enough to resolve, the subject is further complicated by implementing your chosen bus in a hazardous area.

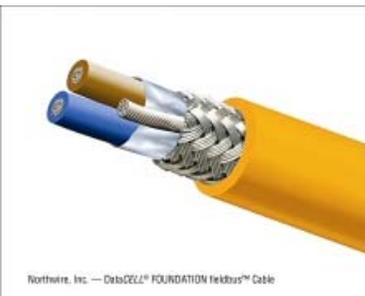


For more information on these and other articles, visit the [Moore Industries/MooreHawke Website](#).

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### Northwire introduces fieldbus cable for rugged networks

NGraphic: Northwire Product Image Caption: DataCELL FOUNDATION fieldbus cable—the most complete line. DataCELL FOUNDATION fieldbus cable for H1 networks in rugged plant environments using networked process automation and control is now available from Northwire Inc., a leading manufacturer of cable for industrial networking.



The FOUNDATION fieldbus network cables are easy to strip. They also are rated for ITC/PLTC Exposed Run (ER) applications as standard, which allows users to eliminate conduit when the cable is installed in accordance with recent National Electrical Code (NEC) amendments. The NEC was amended to permit exposed-runs of certain ITC/PLTC. Metal-clad cable or conduit is no longer required, resulting in significant material and installation cost savings.

*DataCELL FOUNDATION fieldbus cable—the most complete line.*

Northwire's line of FOUNDATION fieldbus cable includes Marine-Shipboard and Arctic Grade Extreme—suitable for applications to -60C. The cables meet or exceed the new FF-844 specifications for Type A and are approved for use in Classes I & II, Div. 2 hazardous locations. They are also UL listed ITC/PLTC-ER and CSA CMX-Outdoor-CMG.

DataCELL is available in 16- and 18-AWG single- and multi-pair cables with alternate color, shielding, and grounding options. Single-pair cables ship in 15 days from stock direct from the factory with no minimums. Complimentary samples are available.

To learn more, visit the [Northwire Website](#) or call 877-210-9945.

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### Softing releases firmware upgrade for popular linking device

A new firmware version of its powerful FG-100 FF/HSE Linking Device is being offered by Softing. With the release of the latest firmware version (V1.59), Softing is boosting this mature and high performance device.

The product provides transparent access to field devices connected to H1 networks from supervisory control systems and management systems connected to High Speed Ethernet (HSE). The FG-100 FF/HSE represents a highly compact gateway between four H1 networks and HSE. For each H1 channel, the Linking Device can be configured to take on the role of Link Master and/or Time Manager.



Anticipating an increased need for additional diagnostic information, Softing also has enhanced the diagnostic capabilities of the Linking Device. For example, the FG-100 FF/HSE analyzes the actual network load (cyclic and acyclic data exchange) for each client/server connection separately. The user can access this information via the embedded Web server and use the information to eliminate bottlenecks in the network design. Further, the new firmware includes additional network security measures that include, but are not limited to, locking down TCP ports used for Telnet and FTP.

The certified FG-100 H1/HSE complies with Class 42c of the HSE profile specification FF-941 1.3, eliminating the need to configure field devices locally and allowing a user to perform all configuration settings through HSE. The integrated Web server provides HTML pages that display diagnostic information and enable a user to field-upgrade the FG-100 FF/HSE-firmware.

For more information, contact: Softing North America Inc., 29 Water St., Suite 301, Newburyport, MA 01950; Tel: 978-499-9650; Fax: 978-499-9654. Or email [Ken Hoover](#) or visit the [Softing Website](#).

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