



*Open access
to device intelligence*

Dow's Pilot Project Proves Cost-effectiveness of FDT/DTM

In extending its cracker at Tarragona in Spain, the largest chemical company in the world used FDT/DTM for device integration for the first time. Within the scope of a Quality Management project Dow meticulously documented all the costs and savings up to commissioning. The company discovered that the technology had virtually paid for itself by the start-up date, and that is just the beginning. Integration



Ernst W. Quelle

into the process control system creates many advantages when operations are running, generating cost-saving potential over the entire life cycle of a plant.

"You read plenty of articles about the advantages of a new technology," says Ernst W. Quelle, Technology Network Leader at Dow. "Normally, no one can produce any figures. With each project we are faced with a problem because we know how much it costs but not what we are going to get for it." This also applied to FDT/DTM. At the beginning the company attempted to estimate the cost-effectiveness of the technology theoretically on paper. But how reliable are such figures in light of the fact that Dow has made Six Sigma (6σ) top priority?



With this Quality Management methodology for process optimization and cost reduction there is no avoiding facts and figures. "That is why in Tarragona we were set about dealing with a specific plant and accurately recorded the costs incurred for investment, training and support, as well as the cost savings, up to the date of start-up," Quelle emphasizes.

DD Files Interpreted for FDT Tools

For certain devices "genuine" DTMs are still in short supply. Generic device drivers can only reflect the functions of complex devices to a limited extent. In the future, the solution could be provided, for example, by the EDD View DTM from ABB and Ifak or the so-called Interpreter DTM (iDTM) from Endress+Hauser and CodeWrights, which reads and interprets DD files.

As a result, all PROFIBUS and HART device descriptions can be used in FDT-based systems.

Plant-wide Device Access via Standardized Interface

Furthermore, a large database allows homogeneous data management including time stamping, of calibration data, for example. For asset management the relevant server can get the data from the devices – another advantage of neat integration without any trouble-prone interfaces.

Worthwhile Integration

"Operation is really user-friendly. The team in Spain is enthusiastic about the system," says Quelle. With an old-style system without FDT/DTM, in the event of a fault a staff member has to go into the plant with



Dear reader,

Please accept my best wishes for your health and success in the year 2009 for you and your family.

The coming year is full of challenges and promises for the FDT Group. Looking back at the accomplishments of 2008 we can only wish to maintain this momentum in 2009 and achieve corresponding success.

The year 2008 was a remarkable one with a series of highlights. Let me remind you of some major achievements.

The acceptance of FDT Technology is steadily growing in the market and our members enjoy the business benefits of a proven, mature and available technology that delivers value to the end users. Many automation projects have been won with FDT Technology and the feedback from the end users has confirmed the benefits in commissioning and asset management. The article on the front page of this Newsletter is one important example.

A major milestone was reached in the IEC standardization effort. In August the FDT specification (IEC 62453) passed the Committee Draft for Vote (CDV) and in December it was submitted as the Final Draft for International Standard (FDIS). The publication as an International Standard is scheduled for May 2009.

The membership growth in the FDT Group was again very positive in 2008. This fact reflects that FDT Technology is a factor in the market. Offering FDT Technology is a differentiator for automation suppliers. The request of end users for certified FDT products is steadily increasing. At the last count, there are over 1500 certified products available on our website, vividly showing the interest of the industry.

The FDT Group membership grew by 20% in one year, bringing the total number of members to 70. This includes major companies in process automation, factory automation and end users. Factory automation in particular experienced a surge of activity with several new members that enjoy market leading positions worldwide.

We will be facing challenges in the year 2009, but we are confident that we can meet them.



Enjoy reading this newsletter,
Hartmut Wallraf

*Chairman of the Board,
FDT Group*



his laptop as soon as possible and try to find the cause. To do that he requires a different program with a different interface for each device. "With an integrated system and FDT/DTM the analysis can be done immediately from the control room or even from a remote location. This saves a lot of time and effort. With FDT/DTM you can accomplish a lot but you have to know how to proceed. It can only get better, the more systems we install. The fact that for some instruments the device drivers were no longer available should be a thing of the past on completion of the first project," adds Quelle confidently. "In Tarragona we were still learning. Nevertheless, the payback on device integration was already 80%-90% by start-up. What more could we ask?" He is convinced that over the life cycle of a plant it will be possible to get plenty more out of the technology. In addition to the very obvious benefit on start-up, there are a whole host of advantages that are very difficult to quantify. After this project the chemical company can at least produce clear evidence of the initial phase up to start-up by producing figures. Quelle: "Thanks to DTM communication the instrument Commissioning time was reduced by more than 40% and the time spent on last-minute changes was cut by more than 80%. With a little more experience with the technology we may manage to bring start-up forward by another 1 to 2 days. That translates to real money." ■

Summary

- **FDIS is out for vote**
- **Sercos III**
- **New FDT website**
- **EtherCat Annex started**
- **New accredited test sites**
- **Technology Marketing PG**
- **New North American Chair**

Upcoming events

- **ARC 13. Annual Orlando Forum, FL**
(02.02.2009 - 05.02.2009)
- **ARC Process Management Academy, Düsseldorf, DE**
(02.03.2009 - 04.03.2009)
- **FDT and ISA Technical Seminar Baton Rouge, LA**
(09.04.2009)
- **Hanover Fair, DE**
(20.04.2009 - 24.04.2009)
- **FDT and ISA Technical Seminar Vallejo, CA**
(05.05.2009)
- **Achema 2009, Frankfurt, DE**
(11.05.2009-15.05.2009)

FDIS is out for vote

The FDIS (Final Draft International Standard) was issued in January 2009. It is the "Approval Stage" according to IEC Directives. It is intended to be finished March 2009.

At the approval stage, the final draft International Standard (FDIS) shall be distributed by the office of the CEO within 3 months to all national bodies for a 2 month

vote. National bodies shall be advised of the date by which ballots are to be received by the office of the CEO.

The secretariat of the technical committee or subcommittee has the responsibility of bringing any errors that may have been introduced in the preparation of the draft to the attention of the office of the CEO by the end of the voting period; further editorial or technical amendments are not acceptable at this stage.

If the final draft International Standard has been approved in accordance with the conditions, it shall proceed to the publication stage.

The approval stage ends with the circulation of the voting report stating that the FDIS has been approved for publication as an International Standard, with the publication of a Technical Specification, or with the document being referred back to the committee.

After a positive vote the next stage is the Publication Stage. It is intended to start April 2009 and will be finished May 2009.

Within 2 months in ISO and 1.5 months in IEC, the office of the CEO shall correct any errors indicated by the secretariat of the technical committee or subcommittee, and print and distribute the International Standard. The publication stage ends with the publication of the International Standard.

A 2/3 majority would mean 12 countries have to be in favor. ■

SERCOS and FDT working together for open systems

In November, the user organizations for the two open standards SERCOS III and FDT agreed to collaborate on drawing up an annex to the FDT specification for SERCOS III. SERCOS III will thus be the first high-performance real-time Ethernet communication standard to support FDT Technology, used by many manufacturers to connect field devices to a wide range of software environments. The extension of the FDT specification reinforces the flexibility of SERCOS III as a universal bus for real-time systems in the field of automation.



"The FDT Group's collaboration with SERCOS offers users the greatest possible transparency and freedom of choice" stresses Manfred Brill, Factory Automation Chairman of the FDT Group. "The combination of these two open standards, supported by many manufacturers, reduces start-up



Rockwell Automation

announces the PlantPax Process Automation System

At the annual Process Solutions User Group (PSUG), Rockwell Automation announced its roadmap for process automation that includes bringing together its end-to-end suite under a new name – Rockwell Automation PlantPax systems and solutions. Based upon the Inte-

PlantPax
Process Automation System

grated Architecture technologies, Logix platform and FactoryTalk suite, and those leveraged from co-investments with partners and acquired companies.

"This roadmap represents a culmination of the investments we've made to extend and enhance our process technologies, systems, solutions and services," said Steve Eisenbrown, senior vice president, Automation and Software, Rockwell Automation. "It also reflects tremendous progress in integrating our organic investments with our partner and acquisition investments. The Plant-

Pax portfolio is the next step in our commitment to help customers achieve process automation excellence. It unifies our core capabilities and technologies with those of our market leading partners, like OSIsoft and Endress+Hauser, and acquisitions, like Incuity, Pavilion Technologies, ICS Triplex and ProsCon, under a common systems and solutions umbrella to provide even greater market innovation and value to process industry customers." ■

Rockwell Automation



times and increases the security of investments." The collaboration agreement is to extend the range of SERCOS III applications beyond drive communication. Peter Lutz, Managing Director of SERCOS International e.V.: "The FDT/DTM specification is another important step on the way to making SERCOS III a universal real-time network for all automation applications."

Extending the FDT specification to SERCOS III will allow users to configure SERCOS III devices via FDT's powerful DTMs.

The collaboration between the FDT Group and SERCOS is promoting the trend towards open standards in factory automation from the field to machine control. Design engineers and developers are able to combine products from different manufacturers in their automation systems thanks to the clearly defined interfaces.

New FDT website

In January, the FDT Group launched a brand new website. It has a new and improved design allowing visitors to easily navigate and filter through information in such a way that it becomes child play to find what you're looking for.

A highlight is the new product catalog. This catalog will serve as a reliable tool containing the entire collection of certified products.

The FDT Group cordially invites you to visit the new website at www.fdtgroup.org.

Schneider Electric hosts Machine Builders in Monaco

A new automation platform featuring multiple hardware bases was among highlights of the company's European Initi@tive event for original equipment manufacturers.

"Make the most of your energy" was the theme of Schneider Electric OEM Initi@tive held in the principality of Monaco on Dec. 3-4. The company exceeded its anticipated total of 700 customers by more than 200 during the two-day event that included keynotes, classes and an exhibition. The key announcement was the unveiling of a new automation platform.

Executive Vice President and leader of the Automation Group Michel Crochon challenged attendees to "remove preconceived ideas about who we are and what we do." A single software application for programming and configuration called SoMachine that targets any of four hardware bases provides flexible machine control. SoMachine provides one tool, one connection, one project file and one download to develop, configure, program and commission the company's machine control system. It uses open standards such as IEC 61131 and the FDT technology.



Manufacturer	Device	DTM	DTM Version	Device Type	Protocol	Resolution	FDT Level	32	64	Control
ABB Automation Products GmbH	284BL-PA	Generic DTM	2.00.36	Pressure	PROFIBUS	1.6	1.2	XP	URL	
ABB Automation Products GmbH	F3E400-DE47-31	Generic DTM	2.00.36	Flow	HART	1.6	1.2	XP	URL	
ABB Automation Products GmbH	284CL-PA	Generic DTM	2.00.36	Pressure	PROFIBUS	1.6	1.2	XP	URL	
ABB Automation Products GmbH	284VF-PA	Generic DTM	2.00.36	Pressure	PROFIBUS	1.6	1.2	XP	URL	

ifak system: Product release isDTMcreator Base v4.0

The isDTMcreator Base eases the DTM development considerably according to time and costs for the developing process.

The isDTMcreator Base contains the following components:

- isFDT Wizard (a DTM Wizard)
- Template Library (open source)
- Object Library
- isFDT MiniFrame.
- PACTware

The isDTMcreator Base v4.0 aides the development Device DTMs according to FDT specification 1.2.1. The communication protocols HART, Profibus DPV1, Foundation Fieldbus, CanOpen and Modbus are supported.



Supported development environment is Visual Studio 2005. (VS 2008 is in preparation).

The wizard provides a step by step approach to the definition of the DTM functionality in Visual C++. The user is guided to the DTM by dialogs, which for instance offer the choice between different kinds of DTM types or between supported communication protocols. Finally a Visual C++ project is generated, which can be compiled into a DTM conforming to FDT specifications v1.2 and v1.2.1. ■

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New Project Group Technology Marketing

The FDT Technology has already been used very successfully for a long time. For maintenance issues and to keep up the FDT Technology with the technical progress, the management of technical requirements is a very important task.

FDT Technology has to evolve to new base technologies like .NET, always taking into account the compatibility with existing FDT frames and DTMs.



Requirements have to be collected, approved and transferred to technical working groups. Resulting specifications for developments have to be reviewed and approved. At the end new features have to be rolled out into the market and positioned towards vendors and end users. To execute these activities the Executive Committee has decided to install the new project group 'Technology Marketing', which will be headed by Friedrich Wegener from Phoenix Contact. ■

New Annex Working Group for EtherCAT

A new working group is starting in the FDT Group to define an annex for EtherCAT. EtherCAT is an open real-time Ethernet network for high-performance applications. The technology is supported and promoted by the EtherCAT Technology Group, an organization with several hundred members worldwide.



This annex is the next of a series of annexes supporting field buses for the factory automation market. The first draft is expected for mid of this year and the final release is planned in a year's time. The working group is lead by Dr. Florian Graetz from KUKA. ■

FDT Group Elects New Leader for FDT North America Marketing Activities

Shannon Foos from Rockwell Automation has been selected as Director of Marketing North America.

The FDT Group is pleased to announce that Shannon Foos of Rockwell Automation will lead the FDT North America Marketing Committee. The FDT North America Marketing Committee is a collaboration of industry professionals from the FDT Group membership which includes leading automation suppliers and users who support the development and adoption of FDT Technology through a variety of activities such as seminars and tradeshow for the end user and engineering procurement contractor community.

Flavio Tolfo comments: "We are very pleased with the choice of Shannon Foos for this challenging position. The FDT Group has been fast growing in the North American market, with significant increase in membership, end users references and technology acceptance. Shannon will bring to the function a solid technical background coupled with excellent communication skills and leadership. We wish Shannon success in her new role." ■

The FDT North America Marketing Committee consists of member companies including: Chair –Rockwell Automation, ABB, Dresser, Endress+Hauser, Flowserve, Honeywell, Invensys, MACTek, Metso, M&M Software, MTL, Pepperl+Fuchs, Phoenix Contact, Turck, and Yokogawa. For more information, please email: na.marketing@fdtgroup.org. ■

FDT Group registers strong membership growth in 2008

The FDT Group announces a membership growth of more than 20 per cent to 69 members in the past year.

12 international companies have joined the FDT Group in the last year. These companies are: Aplsens (Poland), AUMA (Germany), Baumer (Switzerland), Dresser Masoneilan (USA), Klay Instruments (Netherlands), KUKA Roboter (Germany), Larsen&Toubro Emsys Division (India), Mitsubishi Electric (Japan), Petronas (Malaysia), SSS-Smart Software Solutions (Germany), Technical University Dresden (Germany), Weidmüller (Germany).

This signifies a growth of membership of more than 20 per cent in one year. The new members range from Europe to USA and Asia, underlining the global appeal of the FDT Technology. Noteworthy is the addition of very large end user companies from the Oil & Gas industry and large manufacturers from the factory automation industry. This shows clearly the rising recognition of the FDT Group and the FDT Technology in the market worldwide.

"The additional support of these 12 companies increases the global presence of the FDT Group significantly, especially in the United States and in Asia. This shows that the FDT Technology is increasingly accepted worldwide and that the FDT Group is in a phase of growth and establishment" says Flavio Tolfo, Managing Director of the FDT Group.

BusCorp fieldbus consulting and training services strengthens FDT end user support around the globe.



Additionally, the FDT Group AISBL proudly welcomes BusCorp Inc, leaders in Fieldbus systems consultation and design, as its first member of 2009, bringing the total number of member companies at 70. This membership further strengthens the acceptance of FDT technology throughout the end-user community. Owner-operators are increasingly specifying that FDT technology be included within automation suppliers' own frame applications; this further amplifies the need to offer instrumentation



Michael Clark

and associated physical-layer products that are compliant with DTM capabilities. End-users understand the powerful correlation between device diagnostics and asset management systems; this is driving the need for migrating relevant information from devices to operations.

"We are very pleased with the addition of BusCorp as a new member and look forward to their active involvement in technology development and marketing activities as a committee member of the North American Marketing team," Flavio Tolfo, Managing Director of FDT Group declared.

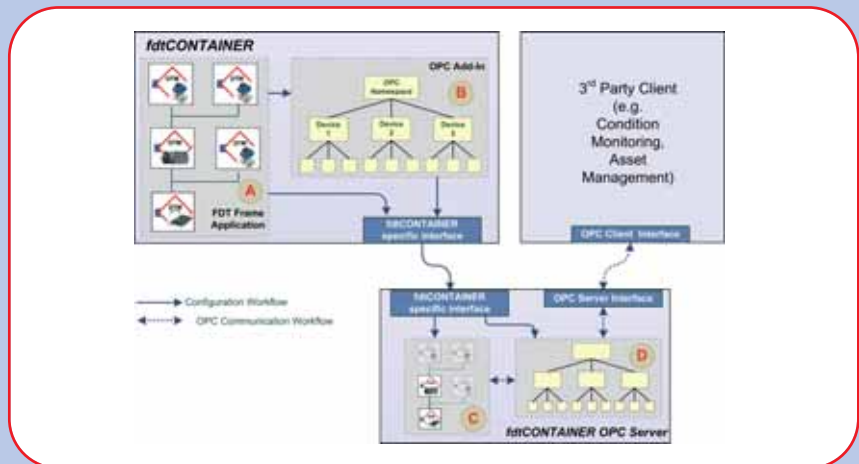
"By joining the FDT Group, BusCorp provides a channel of reciprocity wherein end-users can offer application feedback to product manufacturers," said Michael Clark, Director of BusCorp, "In turn, vendors can be more nimble in providing relevant enhancements to existing tools and create new product offerings." ■

fdtCONTAINER application

with OPC add-in to configure a FDT-based OPC server.

OPC is a recognized standard for making information from field devices accessible. An OPC server can itself use DTMs to obtain relevant data from the field devices. The namespace of the

OPC server is configured automatically with the help of the FDT topology. The DTMs provide information for the configuration of the OPC server via standard software interfaces and permit the communication with the devices and the data access.



The above graphic illustration shows the OPC add-in of the fdtCONTAINER application. The various functional blocks are explicitly marked:

- The engineering takes place with the respective DTMs (A)
- The configuration of the OPC server is based on DTM information (B)

- In operation, the server runs a service in the background (C)
- A condition monitoring application (D) retrieves data ■



FDT Seminar Series Stops in Greenville and Sugarland

The FDT Group recently held two FDT Technical seminars in Greenville, SC on October 28th at the Greenville Marriott and in Sugarland, TX on November 13th, at Chevron. With nearly 125 in attendance from these recent events, the seminars attracted end users, engineering procurement contractors, integrators, consultants, manufacturers, and others interested in the technology. Both seminars included FDT technical presentations and live demonstrations showcasing the technology across multiple protocols allowing attendees to see firsthand how the technology works.

Highlighting the Sugarland seminar was Vincent Palughi from Chevron with a presentation on how Chevron utilizes FDT



Vincent Palughi

Technology allowing attendees to hear how a large oil and gas company takes advantage of the technology's offerings such as improvement in reliability through diagnostics. Mike Clark from Bus Corp, a consultant in the industry also provided an

exciting view on how his clients are utilizing FDT Technology to maximize their bottom line. In addition to the presentations and demonstrations, attendees received the chance to network with FDT technical experts and visit with leading vendors in the market that offer FDT DTM based products.

The seminar series is sponsored by leading automation companies including: ABB, Dresser, Endress+Hauser, Flowserve, Honeywell, Invensys, Mactek Corporation, Metso, MTL, Pepperl+Fuchs, Rockwell Automation, Turck, VEGA, Yokogawa.

The FDT North America Marketing Committee will continue educating the automation industry in 2009. Stay tuned to the FDT website for North America seminar locations and dates. ■

For questions, please email: na.marketing@fdtgroup.org.



VEGA's new DTM Collection

The new DTM Collection 10/2008 from VEGA Grieshaber KG is immediately available.

Beside enhancements in the area of signal conditioning instrument DTMs, the user surface of PACTware 3.6 has been optimised. PACTware 3.6 as well as all VEGA DTMs of DTM Collection 10/2008 are now also executable under Microsoft VISTA. Moreover, the standardised TCI interface (Tool Calling Interface) has been implemented under PACTware 3.6. This simplifies the planning of big projects and the running of applications in engineering systems that are not directly equipped with a FDT interface. With TCI it is possible to call

up the proven FDT-based parameter tool PACTware directly from a superordinate engineering system without having to bother about the actual physical access to the bus and the station address.

The new DTM Collection as a whole or as individual software components can be downloaded free of charge from the download area of our website at www.vega.com. A detailed description of the new functions as well as the version history can also be found in this directory. ■

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Three New accredited Test sites

The FDT Group has accredited three new test sites in Germany and China: Dietz Automation, Neukirchen, DE; M&M China; and Schneider Electric, Seligenstadt, DE. With these new laboratories, the FDT Group counts eight official labs for DTM conformance testing worldwide. The accreditation is given to the test site after an audit of the lab by Mr. Martin Wollschlaeger of the Technical University in Dresden and grants the rights to perform certification testing until the end of 2010.

All companies developing DTMs are free to contract one of these labs to perform an objective certification test. This test checks the conformance of the software against the FDT Specification. When the test is completed successfully, the company can ask for an official certificate at the FDT Certification Office.

Five prerequisites are audited for the accreditation of a test laboratory :

- Independence and impartiality of the test laboratory.
This is especially important since the test results have to be free of any commercial influence and have to be treated strictly confidential.
- Establishment of a quality management system.
- Test procedures ensuring reproducibility and detailed documentation of the test results.
- Outstanding technical expertise.
- Provision of adequate space, equipment and test tools. ■

For a complete list of all accredited test labs, please consult the FDT Group website.

Central access to all instruments at Nedmag Clever xEPI gateway allows FDT configuration via Ethernet

For the Dutch chemical corporation Nedmag it was a real challenge to enable vertical integration for their complex automation mix that had evolved over time. With the clever xEPI gateway from Trebing & Himstedt and the Yokogawa frame application FieldMate they found an integrated solution which saves money throughout the complete plant life cycle and opens up the way to efficient Asset Management.

"The big idea was to make all devices accessible from one central point," says Wim Zomer, Head of Technical Automation at Nedmag. "We decided to use FDT mainly because it is far easier to use and operate and we can increase availability and reduce the number of downtime periods."

FieldMate from Yokogawa was chosen as device management tool as it is able to communicate with all devices of all protocols and integration technologies. Through Trebing & Himstedt's ETHERNET-PROFIBUS-INTERFACE xEPI, Nedmag staff can access FieldMate via an Ethernet network.

"The brilliant thing about the concept is that we can use the infrastructure already existing in each room," says Zomer. "Via secure internet connection, members of his team can even connect and act at night or during weekends from home if necessary."

In combination with Trebing & Himstedt's certified DTM for the ET 200M Siemens Remote I/O, HART over PROFIBUS is available and accessible independently of the system provider.

The complete application report will be published in the CHEManager Europe magazine 01/2009. ■

Please read below the German version (CHEManager 22/2008):

http://www.t-h.de/fileadmin/inhalt/IC/downloads/Nedmag_Anwenderbericht_FDT_08_CHEManager.pdf

xEPI 2 - Diagnostic Unit and Configuration Access Point

<http://www.t-h.de/en/trebing-himstedt/industrial-communication/products/xepi-2.html>

TH DTM Library

<http://www.t-h.de/en/trebing-himstedt/industrial-communication/products/th-dtm-library.html>

www.t-h.de



TREBING + HIMSTEDT



YOKOGAWA



As every year, the FDT Group participated at the SPS/IPC/Drives Fair, held in Nürnberg, Germany from November 25 to 27, 2008.

Eight members companies were present in our booth: Bosch Rexroth, KW-Software, Omron, Pepperl+Fuchs, Phoenix Contact, Schneider Electric, Sick, and Turck.

The theme for the FDT booth was interoperability between devices and systems of different suppliers.

Interoperability was demonstrated by live multi-vendor applications with 21 devices for Factory Automation connected to 4 PLC Systems of Bosch Rexroth, Omron, Phoenix Contact and Schneider Electric.



Individual systems could access the devices online, display the same native graphic interfaces, change parameters, or acquire data. Our participation was very successful as demonstrated by the many visitors and the level of their questions, which shows also an increasing knowledge of FDT in the Factory Automation market. So, we're looking forward seeing you back next year. ■

ISA Sections to Host FDT Group at evening events across North America in 2009 to learn more about ISA103

Events will focus on educating automation professionals on FDT Technology

The FDT Group is pleased to announce that they have teamed with local sections of the International Society for Automation, ISA, to directly engage automation professionals in discussing FDT Technology. These sessions are in demand in the process and factory automation community as FDT Technology, the subject of IEC 62453, undergoes standardization as ISA 103. The FDT North American Marketing Committee has renovated the technical seminar format to be present at local ISA section evening meetings, to better serve the busy end user community. In addition, lunch and learns will be presented onsite

Endress+Hauser: FieldCare goes one step ahead for Plant Asset Management

The latest FieldCare version 2.05.00 was released last autumn, providing improved Asset Management functionality. It combines device management with web-enabled asset management, i.e. the W@M concept of Endress+Hauser.

FieldCare now allows simple connection of smart field devices to the life-cycle management platform W@M. This offers full access to a device specific database, containing all relevant production information of the device, such as device specific information, e.g. manual, spare parts and customer-specific information, e.g. calibration certificates. The database can be assessed 24 hours a day and helps to reduce the workload for maintaining device information - the majority of the information required by the user is already on offer and stored in a secure way.



For those wanting to get the first time experience with FieldCare, a Device Setup version is available free-of-charge. This comes with a full set of Endress+Hauser Device DTMs and allows a point-to-point configuration of a device. ■

For more information please contact klaus.korsten@solutions.endress.com



at end user facilities on dates surrounding the evening events.





Meeting events will take place in Baton Rouge on April 9, 2009; Vallejo, CA on May 5, 2009 in conjunction with NorCal Technical Day; Calgary, Alberta on Oct. 26, 2009; and Edmonton, Al-berta on Oct. 27, 2009.

A typical event evening will begin with cocktails, table tops, and an end user application story. This will be followed by dinner and a technical overview. Next, live demonstrations, utilizing popular communication protocols: HART, FOUNDATION fieldbus and Profibus, with a variety of Frame Applications will illustrate how FDT supports the entire life cycle of the plant. The evening will conclude with a question and answer session. FDT member sponsors will be socializing with attendees throughout the evening with table tops displaying the latest FDT compliant products available. ■

If you are interested in additional information about these events or would like to register, please contact Maggie Carlson at: na.marketing@fdtgroup.org or phone: +1 512.428.4979. Please visit www.fdtgroup.org for more information and for other event listings.

FDT Group activities in the Asia Pacific Region

FDT Seminar in TAPPI Japan



FDT Group Japan organized a seminar with demonstrations on December 4 at Funabori, Tokyo, in parallel with TAPPI Japan.

TAPPI is the major event for pulp & paper market. It informs customers about publications of new technologies, success stories in paper plants presented by plant engineers and equipment suppliers.

With an extended time slot and a first place on the agenda, FDT was positioned as the most important technology in this event.

Mr. Fukui from OMRON presented the FDT Technology, the group activities and some case studies. His presentation was entitled: "The Trend of Industrial Instruments to Open Network Architecture".

Over 200 paper plant engineers and equipment suppliers attended the event.

The FDT group also exhibited and demonstrated 3 multi vendor systems: 3 host systems connected to more than 20 devices through 4 different protocols (HART, PROFIBUS-DP, -PA, Foundation Fieldbus).

The usefulness and the benefits of the FDT Technology were highlighted in this event in a very correct way through demos and case studies.

FDT End User Event in Thailand

In September, the FDT Group has conducted two End-User seminars in Bangkok and Rayong, Thailand. A total of 45 participants attended the End-User event in Bangkok while 35 attended the End-User event in Rayong. Large end user companies



Flowserve Launches ValveSight

Maintenance only when and where it is needed, saving time and money

The ValveSight Diagnostic solution (www.valvesight.com) significantly reduces unexpected plant or process downtime by predicting potential failure modes and prioritizing condition-based maintenance before the performance of the working process can degrade. ValveSight reduces maintenance costs associated with preventative and break-fix activities by ensuring that actions are focused on solving root causes and not just symptoms.

ValveSight can be connected to a Host DCS, workstations, or any system that supports FDT/DTM open architecture. The intelligent diagnostic software continuously captures diagnostic data from the valve, actuator, positioner, and control signal while the process is running.

Data is displayed via DTM technology



with a user friendly and intuitive GUI allowing users to view different alarms and data points in a simple, at-a-glance, color-coded health monitoring dashboard. The diagnostic algorithms within ValveSight are based on Flowserve's decades of

knowledge and expertise in design, manufacturing and servicing of valves and automation solutions.





attended, i.e. Toyo-Thai Corporation, The Siam Cement, Thai Plastic and Chemical, PTT Chemical Public Company and Thai Polyethylene.

These events further increase the recognition and acceptance of FDT Technology in Thailand.

FDT End User Event in Indonesia

An End User Event was held at the hotel Burobudor in Jakarta, Indonesia, on November 6, 2008. A total 50 participants attended the End-User event in Indonesia. Companies attending are, ie, Pertamina, Chevron Geothermal, Total E&P Indonesia and PT TIFICO.

FDT in OSEA 2008, Singapore

FDT Marketing Society participated with a booth at the 17th OSEA International Oil and Gas Industry exhibition at SUNTEC City, Singapore, from December 2 to 5, 2008. This trade show drew a total of over 20,000 attendees. FDT Marketing Society Singapore was present and collected a total of about 1,000 contacts. Visitors were many, asking detailed technical questions. This clearly shows the interest of the visitors in the FDT Technology. This exhibition is so far the best for the group in the region. ■



New FDT based FlexProgrammer 9701

Baumer has developed a new FDT based configuration unit.

The FlexProgram System is a unique software and hardware solution which makes programming of Baumer Process Instrumentation programmable transmitters easy and intuitive.

The FlexProgram System is FDT based and DTM drivers are provided for the FlexProgrammer 9701 as well as all Baumer Process Instrumentation programmable transmitters including Devices with 4-20 mA output signal. This enables our customers to

programme all our programmable transmitters, including transmitters with 4...20 mA output signal, using a third party FDT software programs such as Pactware™.

The FlexProgrammer 9701 offers flexibility for customers, who have transmitters from various different suppliers as well as simplicity for customers, who only need to program Baumer transmitters. Via USB interface cable data can be stored on PC/laptop to Flex-Programmer 9701 for off-line storage to transmitter. The rechargeable battery is charged by USB connection.

The FlexProgram software is available free of charge on our website: www.baumergroup.com



New PACTware Release

PACTware 3.6. with Windows Vista Support

The universal PACTware operating software is now available in version 3.6 and ready for free-of-charge download from the websites of the PACTware member companies.

The main highlights of the new release are the support of Microsoft Windows Vista and the improvements of the user interface. An intuitive device catalog

management, better DTM identification and improved settings of the print functionalities make device operation even quicker and easier. Furthermore, user guidance for download functions has been improved and facilitated.

With its new release, PACTware now supports the TCI (Tool calling interface) at level 3 and can thus be implemented in engineering systems such as SIMATIC STEP 7.

Also the enhancements of the FDT Specification 1.2.1 have been fully integrated in the latest version of the most used FDT frame application.

Further information: www.pactware.com



The first TÜV-certified FOUNDATION fieldbus safety-valve controller supports FDT/DTM technology



Neles ValvGuard™ VG9000F is the latest addition to Metso's successful range of valve controllers working in the FDT/DTM environment.

Plant safety is increased due to automatic Partial Stroke Testing (PST) and improved diagnostics data. Because VG9000F features a high pneumatic capacity and internal limit switches, extra instrumentation and parallel limit switch mounting are unnecessary. The system features a standard safety system Digital Output (DO) interface and is TÜV-certified up to SIL3.

FOUNDATION-based emergency-valve controllers give faster response times for status information and easier integration of higher tier diagnostic information into the host system, when compared to the parallel HART network. The safety part is isolated from the fieldbus part and powered by a separate 24 V DC signal. FDT/DTM technology helps to maximize the availability of safety valves because emergency-valve-related on-line diagnostics can be easily interpreted.



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