



**PROFIBUS**  
PROCESS FIELD BUS

# Profibus Newsletter

August 2007

**After the excitement of the Process Show and PROFIBUS breakfasts held in Durban and Johannesburg, the August newsletter is dedicated to some international news and technology.**

## PROFIsafe goes wireless

PROFIBUS and PROFINET International (PI) has specified PROFIsafe for wireless networks. The new version of the PROFIsafe profile (Version 2.4) describes the conditions for the functionally safe transmission of data via WLAN and Bluetooth. The concept has been assessed and approved by the BGIA and TÜV.

The publication of the specification of PROFIsafe on PROFINET IO - and thus on Ethernet confirmed the compatibility, in principle, of PROFIsafe for wireless networks. It was then simply a case of defining the details in respect of the issue of security. The new PROFIsafe profile has accomplished this for secure cyclic data exchange. First applications are now being deployed.

PUG members can download the profile for free from the PI website <http://www.profibus.com/pall/meta/downloads/> (non-members pay a fee of 150 Euros).

## New white paper on PROFINET in process

PROFINET's value proposition lies in its ability to address the needs of multiple manufacturing domains, from bus power for field instruments to high speed deterministic control, all running on a common communication layer. So says ARC's new white paper, published April 2007.

The white paper goes on to say that the key success factor of Industrial Ethernet's introduction into process plants will be the availability of a migration path that lets users preserve their investments in legacy networks and devices by integrating existing networks into an Ethernet backbone," which is a perfect description of PROFINET!

Topics covered include business drivers, the acceptance of Industrial Ethernet, Ethernet in process plants and the recent Siemens and Emerson announcement about Fieldbus co-operation. Download the new white paper from <http://www.profibus.com/pall/events/news/article/01765/>.

## Integration of HART into PROFINET

Hanover, April 16, 2007: Having completed the integration of fieldbuses for factory automation into PROFINET, the PI working group 'Fieldbus Integration' started work on integrating the HART and Foundation Fieldbus communication systems for process automation. The draft specification for the integration of HART into PROFINET has just been released, appropriately in time for INTERKAMA 2007. The close collaboration with the HART Communication Foundation (HCF) was evidenced by the active role a representative of HCF Europe played in the working group.

The integration of HART into PROFINET is a compatible development of the HART on PROFIBUS profile. The communication services already defined for PROFIBUS were retained. Therefore, the primary task lay

in adapting these communication services to PROFINET communication objects.

The integration of HART into PROFINET supports HART Revision 6. As with PROFIBUS, all HART commands can be transferred over the PROFINET system with total transparency. This means that existing HART engineering systems can now offer under PROFINET all the performance features, too, which have already been established under PROFIBUS. Accordingly, HART devices can also be parameterised over PROFINET. With the successful conclusion of the project, the PROFINET concept has shown that it is a compatible platform for the integration of subordinate communication systems in process automation. This is the first significant step on the way to proving the feasibility of PROFINET in process automation.

## SHOW NEWS

### Hanover fair report

Visitors by the hundreds came to the PI booth at Hanover Fair to see the latest and best in PROFIBUS and PROFINET technology. The 220 m<sup>2</sup> booth shared a hospitality suite and a seminar theater with the Interbus Club based next door, where a forum themed on 'The Future of Automation' was held.

62 companies participated, while the now-famous PROFINET wall featured 91 Industrial Ethernet products from 22 companies, arranged from controllers on top, through drives in the middle to IO on the bottom. PROFIdrive, PROFIsafe, IO-Link, Tool Calling Interface (TCI) intelligent pumps, and of course PROFIBUS and PROFINET in process automation were also featured on the booth.

### Carl's blog

Carl Henning, deputy director of the PTO in North America, has been blogging for more than a year and commands a lot of interest globally amongst automation fans. He attended the fair and blogged about his experiences, providing a great, day by day overview. Videos, pictures and incisive commentary were all included!

Check out Carl's blog at [http://us.profibus.com/community/blogs/pto\\_profiblog/default.aspx](http://us.profibus.com/community/blogs/pto_profiblog/default.aspx)



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