

**Office Bearers:**

**Chairman:** Mr. Kishore Karandikar

**Deputy Chairman:** Mr. Lalit Sahani

**Secretary:** Mr. Dileep Miskin



**IPA Address:**

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IPA Newsletter – Edition 7

September-2012

**Dear All**

IPA has been working on the commitment to excellence and innovation to bring the world's leading manufacturers tie up with Indian companies to represent their products and services in India. We are happy to bring out the sixth News Letter of Indian Profibus, Profinet Association (IPA).

This news letter is face of IPA in India & will showcase the details of the events that are worked out by IPA. IPA is participating in Automation Fairs since 2010 as a part of it.

I am glad to inform you all that we have currently 23 active members from various industry manufacturing sectors & a unique distinction is that we have the Institutes to be part of this organization. We will publish this news letter every quarter & request all the members to contribute with Technical articles so that these can be included in the news letter.

***Happy reading  
from - IPA Secretary***

**OVERVIEW OF IPA ACTIVITIES**



**IPA AGM 2012**

**IPA Promotional Events**

IPA with the help from PICC at UL Group conducted 2 promotional events at L&T facilities in Ahmednagar and Coimbatore. The engineers were apprised of PROFIBUS on following topics:

- Technology
- Benefits
- Usage
- Its advantages in the Industry

About 25 to 30 Engineers were benefitted from this event. IPA proposes to expand this to many more end users in coming months.

## IPA AGM 2012

IPA AGM was held on 4th February 2012 at Le Meridain Hotel, Pune. IPA AGM was attended by the persons representing from various member Companies & Educational Institutes.

The members discussed on various possibilities of tax exemptions. Subsequently it was agreed as follows:

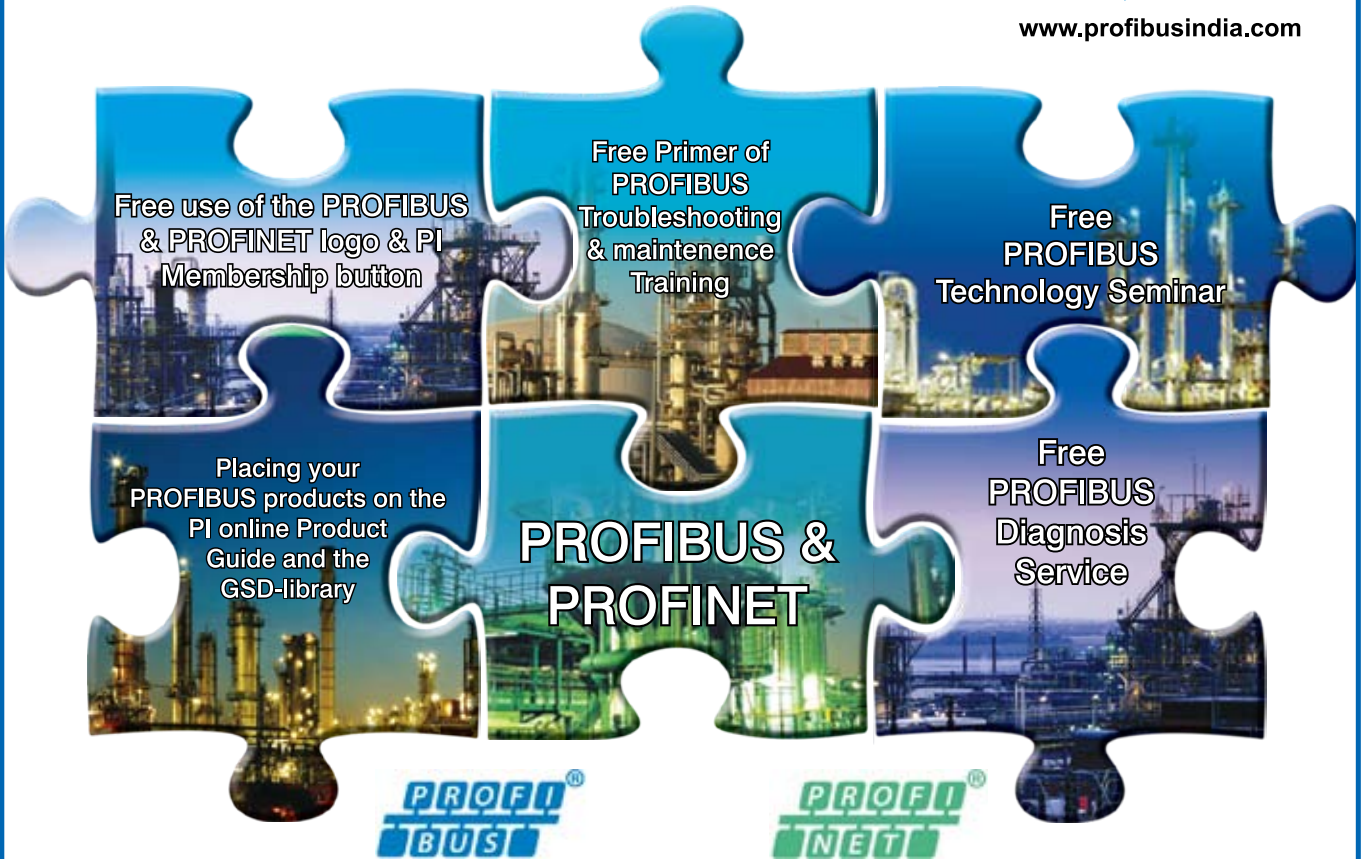


- That IPA is not a Profit making organization hence whatever is collected is to be spent for the promotion of technology. Number of activities in line with the objective of IPA must be increased with more active participation from all the members, all members have agreed to send their suggestions by email to the Secretary, IPA on priority platforms in various working areas.
- IPA will venture in some survey of Profibus / Profinet node population in India which will be in line with PI figures of number of nodes.

Then the secretary briefed the members on the IPA activity and the award won by IPA at Automation 2011. In his presentation he updated on;

- IPA activities since inception
- Update & closure of all open points of last year AGM
- Participation in ARC Forum meet at Pune in August 2011
- IPA Road shows on Profinet technology at Baroda & Pune in Sept 2011
- With very enthusiastic efforts from Mr. Dhamankar we conducted IPA seminars in Institutes on Profibus technology at Cummins college, D Y Patil college, Ahire Engg college Karad, RIT Islampur
- Participation in Automation 2011 fair inaugurated by PI director Dr Peter Wenzel for regarding mass marketing & promotion
- Profibus, Profinet Seminar on Innovation of Profinet at Automation 2011 conference
- Release of the IPA quarterly news letters
- Printing & circulation of 1000 copies of 5th edition, 10000 copies of 6th Edition of IPA news letters
- Releasing advertisements in Technical magazines
- Invited the technical articles for the forthcoming News letters that will be released every quarter
- Updates on the IPA Website & inviting company profiles & the advertisements for promotion of the individual companies
- Updated members the reasons for withdrawing from Hannover fair 2011 in Bangalore & Eleccrama in 2012 Jan in Mumbai due to lack of participation from members at the booth in Automation 2011

# FREE! FREE!! FREE!!! for end users... JOIN IPA & REEP THE BENEFITS



## ➤ **Participation in trade fairs:**

IPA strives to participate to the most important industry fairs in India. The association participates, in the name of its members, in these fairs by way of a collective stand.

## ➤ **Participation in events:**

The PROFIBUS & PROFINET association organizes events like "Talks" (2-3 hour events) or Road-shows (half or full day events). These events are specifically intended for end users, machine-builders and system-integrators.

## ➤ **Up-to-date with PROFIBUS & PROFINET information:**

The association makes sure that the members are always supplied with the most up to date information in relation to PROFIBUS & PROFINET. This occurs by way of PROFInews, IPA News letter the international e-magazine. Besides that the organization regularly organizes info meetings which are specifically set up to keep the members up to date.

**Come & join Indian Profibus Profinet Association to promote technology:**

For Membership of IPA please contact: Mr. Dileep Miskin

**Indian Profibus Profinet Association (IPA)**

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### IPA Participating in AUTOMATION 2012

Automation 2011 was Asia's major event for Industrial Automation Business community. IPA is participating in Automation 2012 after winning 'Best Stall Award' in the Automation 2009 & 2011. The Association will also conduct a conference on the Profibus, Profinet technology, which supposed to attend by manufacturers, entrepreneurs, system integrators, etc. IPA will also conducting roadshows at different cities all over the India where we promote the Profibus –Profinet Technology.



### IPA Participation in Manufacturing Summit 2012

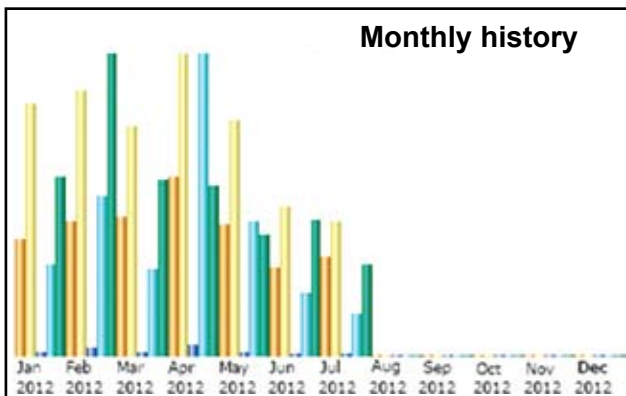
IPA participated in the Manufacturing Summit 2012 which was organised in Pune. IPA was invited in the event for the Technology Seminar and IPA Secretary Mr. Dileep Miskin addressed event. The benefits of the usage of PROFIBUS – PROFINET technology were apprised to the delegates present in the summit.

### Profibus, Profinet Technology Spreads in Academic Institutions

IPA's work of spreading the technology in the Institutional sector was highly appreciated. For academic institutions, charged with equipping graduates to compete in today's knowledge economy, technology exposure plays a major role. This is exactly one of the main objectives IPA

works with. IPA is planning to conduct PROFIBUS-PROFINET Technology seminar at various Educational Institutes. IPA now looks forward to march towards the other member educational institutes to gear up the Institutes for the industry needs.

### IPA Website Statistics



The increasing response received for the technology, as seen in the Website hits statistics, marks the success of the IPA in Spreading the Profibus and Profinet Technology throughout the year. The response received for the technology, as seen in the Website hits statistics, marks the success of the IPA in spreading the Profibus and Profinet Technology.



## REX 300 – Now with UMTS!

The REX 300 industrial router provides you with maximum flexibility and greatest possible security. With the router, you can remotely establish simple and secure communication with your plants.

- Teleservice of Ethernet devices
- S7 connection via MPI/PROFIBUS and Ethernet
- Analog, ISDN, GSM/EDGE/UMTS and access via WAN
- Load configuration via USB
- myREX24.net
- I/O manager for data logging
- Fallback functionality

We at UL group are driven by curiosity. Our values and work culture encourage looking beyond immediate needs and gains. So before suggesting Industrial Teleservice Products, a UL representative looks at the big picture. He analyses routes that help to achieve faster optimization. Thus providing solution that are smarter and hassle free.

Ask for **B to Y** solutions from your UL representative.

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**UL GROUP**  
*Nothing's Complex*

In our 7th Edition, we take this opportunity to bring forth  
a few Case studies to share our vision for

## Automation using Profibus, Profinet Technology

### Potatoes & Profinet

#### Project

In a Potato industry a potato washing machine supply the potatoes for processing into fries and chips. The plant is operated 365 days a year, 24 hours a day in a 4-shift working cycle so reliability and availability were top priorities. Different protocols and numerous participants made networking the washing machine a challenge. There are around 210 devices in the network, including operating panels, visualization, drives and I/O systems.



#### Solution

Schulz Systemtechnik, an automation solutions provider, uses managed PROFINET switches to provide reliable communications between machine segments, plant parts and higher-level office networks in their systems. “As the market is orienting itself towards PROFINET, we have involved ourselves in an intensive way,” explained Stephanus Trenkamp, master electrician at Schulz Systemtechnik. “PROFINET means that we have more freedom and flexibility when building our structured networks.”



“The challenge in our first PROFINET project – a high-shelf warehouse – was to find suitable components,” he recalled. More recently, Schulz has installed Profinet switches in a potato washing machine supplying potatoes for processing into fries and chips. Today, the potato washing machine is running for a second period without interruption.

#### Conclusion

Today, the potato washing machine is running for a second period without interruption. Trenkamp summarized: “Managed switches are the ideal solution for PROFINET networks. With them we have a simple way of building complex network configurations to exactly suit customers’ needs.”

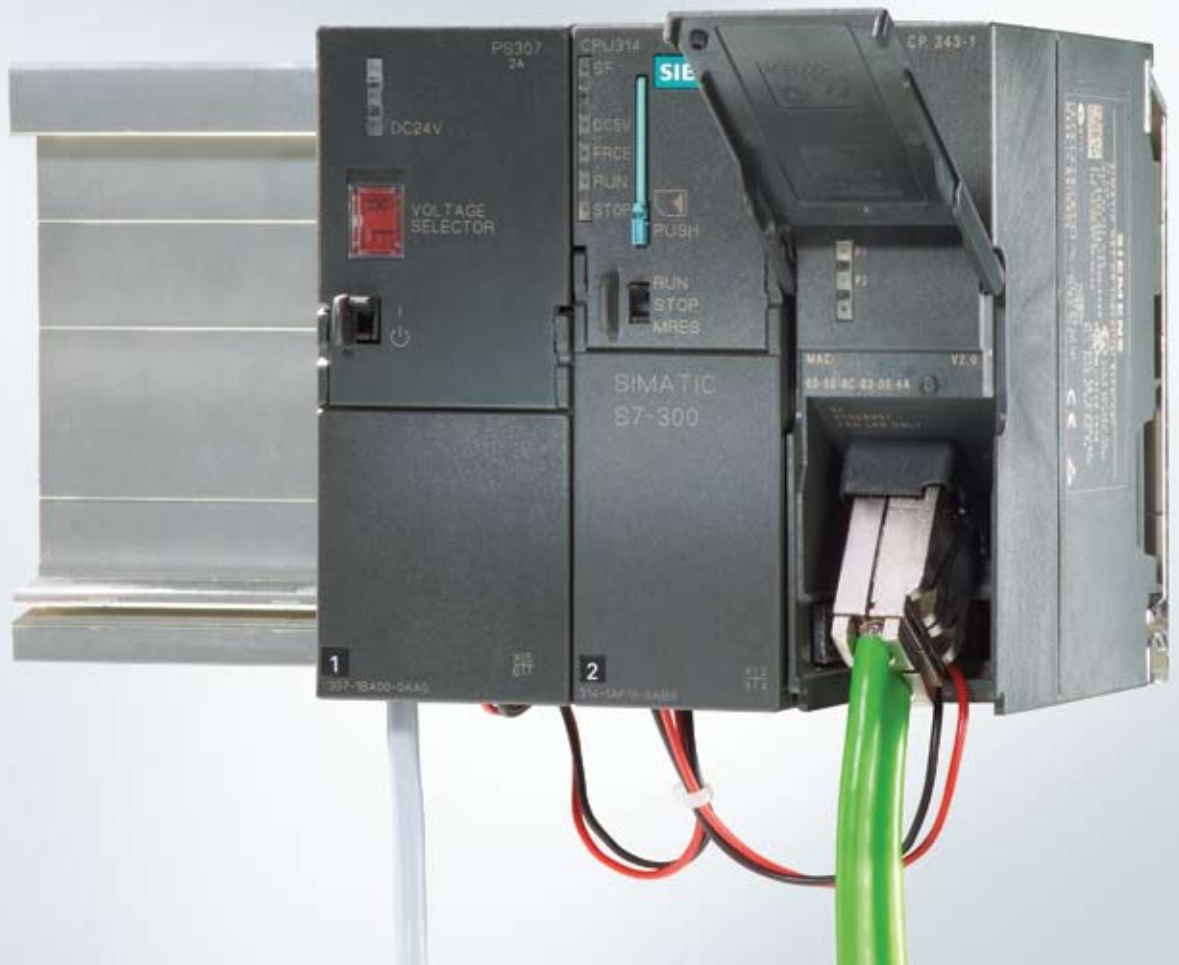


### Volkswagen and Mercedes-Benz with PROFlenergy

#### Project

During the 17th Annual PI North America General Assembly Meeting in Phoenix, AZ on October 4-6, 2011, Dr. Frithjof Klasen, professor from the Institute for Automation & Industrial IT at Cologne University made a presentation describing results of a study at a Volkswagen and a Mercedes-Benz plant focused on PROFlenergy. He noted that PROFlenergy was developed in response to calls from the AIDA (Automation Initiative of German Automobile Manufacturers) Group (members include Audi, BMW, Daimler, Porsche and Volkswagen) to reduce energy consumption.





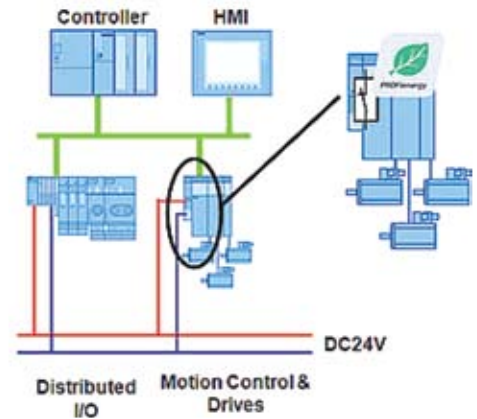
## PROFINET – It is Profit Net One Field bus for all the tasks!!

- Connect any automation device to any point
- All automation applications communicate via just one cable; Isochronous, Real-time and TCP/IP
- Standard and failsafe communication via one cable
- Profinet on Wireless – As secure as Wire!!

## Volkswagen and Mercedes-Benz with PROFlenergy

### Solution

PROFlenergy is a profile of the PROFINET communications protocol that allows the power consumption of automation equipment to be managed over a PROFINET network. The PROFlenergy profile was published in 2010 with a key concept of enabling energy consuming devices to go into sleep-modes during non-productive periods. PROFlenergy enables centrally controlled switchover of individual devices or portions of a production plant to energy-saving modes. The profile then allows a coordinated restart behavior from energy saving modes. PROFlenergy also defines models for monitoring energy consumption data to normalize data at the unit level that is either monitored directly (by instrumentation) or calculated (by knowing the electrical parameters).



### Conclusion

Qualitative and quantitative analysis of operating modes and the associated energy consumption of plant units was derived from the data including energy consumption of individual plant units, reduction of energy consumption during idle times, duration of idle times, and pauses (planned, unplanned, operational, model-related). Based on this information potential savings were determined. For example one of the production lines had average power consumption during production of 32.62 kW and during idle time 17.74 kW. The study calculated a 33% potential energy savings per year for the production line using PROFlenergy based on a 2-shift operation, 5 work days + 2 weekend days. The potential savings per work cell results in savings of 5,700 euro and 33.250 kg of CO<sub>2</sub> emissions per year. Typical plants have over 100 cells which would yield a savings of more than 500,000 euro per year.

## Profibus Professional Courses

Indian PI Competence Centre (PICC), hosted by the UL Group of Companies conducts Courses for training in Profibus.

**For registration please contact [profibus@ulepl.com](mailto:profibus@ulepl.com)**

**Contact no.: +91 9970006819**

## Suggestions & feedback

Any suggestions & feedback to improve this quarterly news letter from IPA are welcome. Members are requested to share their success stories or advertisements for future articles of IPA News letter

**With warm regards from Indian PROFIBUS, PROFINET Association (IPA)**

**<http://www.profibus.com/community/regional-pi-associations/india/>**

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