

Message from the Secretary

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Dear all

Our commitment to excellence and innovation has seen the world's leading manufacturers tie up with us to represent their products and services in India. I am happy to bring out the first News Letter of Indian Profibus, Profinet Association (IPA).

This news letter is conceived to be the face of IPA in India & will showcase the details of the events that are worked out by IPA. I am glad to inform you all that we have currently 17 active members from various industry manufacturing sectors & an unique distinction is that we have the Institute 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

Secretary

IPA Team

IPA formation History

Ignition of thoughts at Automation 2008 Fair in Mumbai



During the Automation 2008 fair in Mumbai many of the Profibus partners of UL Group were part of the UL booth. It was during this time that the partners of UL discussed the need of the Profibus association in India, questions were raised why the association does not exist in India. UL discussed this with Siemens & also with the partners from Europe. When they returned back to their countries they put a word to the Chairman of the Profibus International, Mr Joerg Freitag about the need of the formation of Regional Profibus, Profinet association(RPA).



During the visit of UL partners to Europe in Nov 2008 a meeting was fixed by Profichip Germany with Mr Freitag where UL presented the activities being carried out in India on Profibus promotion. This meeting helped the Chairman to take a decision on plans to visit India to have a meeting with major manufacturing companies. He indicated that sometime in December 2008 he will plan the visit to India & will coordinate with Siemens in India to set the ball rolling



The PI chairman planned a visit in Feb 2009 to come over to India & a meeting was organized to get participants from various manufacturing, End users, OEM's companies. During this meeting the decision was taken to form the RPA in India & it will be called as Indian Profibus, Profinet Association (IPA). The modalities of the membership fees structure was discussed during the meeting. Subsequently Mr Freitag circulated a message to all the participants of Feb meeting about the intentions to become part from the members.



Members who participated in Feb meeting indicated their interest & the movements began to form the association. In the meantime in June the yearly PI chairman meeting was scheduled where IPA was invited. On behalf of IPA Mr Dileep Miskin attended this meeting & presented the scenario of India to the PI members from all the RPA's. During this PI meeting the PI Chairman agreed to take further step in IPA formation, subsequently Mr Prakash, Mr Milind from Siemens also met the PI Chairman the help of Mr Dolf who is the RPA chairman of Netherlands & Belgium associations. A visit of Mr Dolf was planned to India.

Mr Dolf visited India & held discussions with Siemens people for the legal constitution setup for the IPA organization. Then Mr Dolf visited Pune with UL Group we made joint visits to meet the prospective members namely Honeywell, Forbes Marshall end users like Alfa Laval, OEM THERMAX, Hindustan Unilever, University members, Tetra Pak, DEMAG, GUDDEL & many more. Everyone appreciated the move to have IPA in place. Legal consultant appointed during this visit to take up the Registration process at non Profit Organization & the registration papers were submitted in Dec 2009



IPA as an organization participated in IA2009 Dec Hannover fairs in Mumbai. IPA displayed a multivendor system connected on Profibus & Profinet. The member companies of IPA participated in the fair namely, Siemens, UL Group, Profichip, Turck, VIPA. We received a modest response to the first event of IPA.

IPA received the approval of Registration as NPO in April 2010

PI Support Organization worldwide

Over 37 Profibus International Competence Centre (PICC's) currently operate in 22 countries and in India UL Group has the unique distinction of bringing this seat of knowledge. They have the 1st PICC in India recognized by Profibus International (PI) Germany.

"We are and will remain the world's leading automation organization for communication solutions, serving our users, our members and the press with the best solutions, benefits and information.

We are committed to setting and protecting the standards for open communication and control in the automation and process market."

Within this dynamic scenario, PI (PROFIBUS&PROFINET International) is responding to end user's needs in many ways. PI will:

- 🚧 Remain committed to providing end users with timely, effective and relevant communication solutions.*
- 🚧 Remain the undisputed world market leader and maintain the largest installed base for industrial communications worldwide.*
- 🚧 Strengthen its position with interoperable, integrated automation solutions for plant-wide use.*
- 🚧 Extend automation solutions into new market areas.*

Any suggestions & feedbacks to improve the contents of this news letter are welcome.

We request all the members to send their success stories, technical write ups to publish in this news letter. Memembs can contact the secretary for the advertisements in the upcoming issues of the News letter.

The IPA Road shows of June in India are co-sponsored by:

- Siemens ,
- UL Group of Companies,
- FESTO,
- Hilscher,
- Turck,
- Wago Controls,
- Conserve Tech ,
- VIPA

The Dates of the events are:

- 16th June Delhi
- 18th June Mumbai
- 21st June Bangalore
- 23rd June Chennai
- 25th June Hyderabad

The IPA organizes events like "Sponsored 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, but can also be intended by members. During the meetings different technical aspects as well as practical applications of PROFIBUS & PROFINET are addressed. During these events it is possible for the members to present their company, their products and/or services through the use of a table-top (micro-fair). IPA has so far participated in the Hannover Fairs IA2009 in Dec 2009 at Mumbai. Here IPA had its own booth where the Multivendor Demo system was show cased with connectivity on Profibus & Profinet products. All the member companies participated in connecting their products to this system. Some of the member companies had their own table space to showcase their products. Visitors from wide spectrum of Industry applications attended this fair.

Brief Description on IPA Membership

In the field of Automation, be it Factory automation or Process Automation, there is a big challenge to upload the data effectively to IT Management System. This will help managers to make decisions effectively. IPA through its PROFIBUS and PROFINET promotion has been supporting the vision with the best automation technology available. In India PROFIBUS & PROFINET protocols are supported by IPA, founded in 2009 as the INDIAN PROFIBUS & PROFINET ASSOCIATION. IPA connects Indian industries to the world's most popular field bus; PROFIBUS, and to the technology-leading Industrial Ethernet, PROFINET. The IPA helps to educate various industries & Institutes through its website, training classes, seminars etc. There are four types of members in the IPA: Device Manufacturers, System Integrators, and End Users & Universities where each receives unique benefits.

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. Members can also, in addition to this, reserve their own individual presentation. The addition thereof however needs to be in tune with the theme of the stand and in accordance with the goal of the association. With participation to a fair you will automatically receive access to information about which visitors came to the stand.

Members List

1. SIEMENS Ltd (INDIA)
2. UL Group of Companies
3. Profichip Germany
4. Chemtrols Industries Ltd
5. L & T Limited
6. P&F (India) Pvt. Ltd
7. TURCK India Ltd
8. VIPA India Ltd
9. WAGO(India) Ltd
10. Conserve Tech Systems Pvt. Ltd
11. Deutschmann Automation Germany
12. AUMA
13. FESTO
14. College of Engineering – Pune
15. Hilscher India
16. PROCENTEC Singapore
17. BHEL

IPA Membership Benefits

IPA is a marketing organization which has as goal to, during its activities, organize a marketplace for its members. This marketplace is a location where suppliers and purchasing companies can meet each other. The association is established and has as goal to promote the PROFIBUS & PROFINET standard in India.

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 PROFI news, the international e-magazine. Besides that the organization regularly organizes info meetings which are specifically set up to keep the members up to date.

As a company, which develops its own products with a PROFIBUS-interface, you can have these products placed in the Online Product Guide and in the GSD-library. By placing your products here potential clients will find your company as a supplier of products which are as per the specifications of their individual expectations-package. Your market area contains in this way, in one single move, the entire world!

Authorized members can have many other benefits mentioned below:

- ✓ Participation to a collective stand for different trade fairs
- ✓ Participation to IPA events
- ✓ Presence on the PROFIBUS.COM-sites with a link to your own homepage
- ✓ International Promotion via "PROFI news"
- ✓ Free placements of member news (product- and service info)
- ✓ File listing of all the visitors to the stand after each trade fair
- ✓ Reference articles in trade journals
- ✓ Free access to all the PROFIBUS-standards, profiles and guidelines available at PROFIBUS.COM
- ✓ Participation to work groups for the purpose of future developments and additional functionalities
- ✓ Free use of the PROFIBUS & PROFINET logos and PROFIBUS International Membership button
- ✓ Placement in the mailing list for the updated/latest news
- ✓ Free placement of products in the Online Product Guide on the Internet
- ✓ Ident-numbers against member-price
- ✓ Exposure of the association
- ✓ Potential new customer meetings during activities of the IPA
- ✓ Getting to know various customers problems faced during the operation & solutions to these problems
- ✓ Getting customers for Profibus implementation on their items

News from IPA members

PICC centre at UL Group – The power of Knowledge



PI Competence Centers (PICC's) are centers of technical expertise that play an essential role in supporting first-time developers, users, Integrators, OEM's of PROFIBUS & PROFINET devices and systems. A PICC is governed by 'Quality of Services' Agreement that ensures technical excellence and non-partisan service. Learners avail of formalized training courses delivered by the PICC that will help them become knowledgeable engineers or installers of PROFIBUS and PROFINET equipment. The courses provide a mixture of theory and 'hands-on' problem-solving exercises. For the certified courses Attendees clearing the final tests receive an official PROFIBUS Certified Engineer or Certified Installer Certificate and permission

to utilize this certification that confirms their status. The PICC also provides the diagnostic services to the Profibus installations utilizing the latest Diagnostic tools. This will help the customers to locate the problem & then with involvement from the suppliers to close the calls

PICC also helps the local Regional Profibus association (RPA), in case of India its known as Indian Profibus, Profinet Association (IPA) for arranging the multivendor systems connectivity on Profibus & Profinet so that the customers will see the seamless integration of the various manufacturers systems to communicate on the Profinet & Profibus. PICC at UL Group in India is duly audited by another PICC & the certification has been completed.

Technical write ups

Maintenance of Profibus Installations

PROFIBUS is a proven standard in the industry. We see more and more plants completely equipped with this outstanding technology. The management of these enterprises is aware that the intelligence and diagnostics of the instruments contribute to costs savings and optimization of production automation. The grey area is the knowledge level of the maintenance technicians who need to work with this system. Frequently their know-how is relatively limited which leads to a point that they are going to look at the installation as a 'black-box'.

When a disturbance occurs, nobody knows what to do and where to start. The black-box effect costs enterprise enormous amounts of money. If disturbances are not solved quickly, the production line is on hold and that means profit loss. PROFIBUS is the backbone of the installation and must therefore be the most stable element.



This waste of finances does not need to occur. The situation is very simple; we should not forget the people on the maintenance floor. They have direct contact with this relatively new technology and must feel happy with it. This is a pure psychological matter. Many maintenance technicians have years of experience in conventional technology and are forced to step-over to PROFIBUS.

Conventional technology is relatively simple, because it only relates to voltages and currents. PROFIBUS is a high-speed digital system that has to comply with a lot of rules. Also test- and measurement tools are different. The multi-meter is not useable anymore and this was the tool these people have always worked with. This leads to negative thoughts and communication to the outside world. The situation will get worse when the technicians also do not have an electrical background.

To tackle the black-box effect, it is recommended to follow the points below.

- 1) Divide the installation in segments Use Profibus repeaters or Hubs to split the installation up in isolated segments. This guarantees that short circuits and wire breaks only have impact on 1 segment and not the entire installation. Segmentation also simplifies troubleshooting and maintenance. Because of cost issues these components are sometimes not implemented. This is a missed opportunity, because at the end the maintenance

costs were higher than the initial investment.

2) Include measurement connectors: Every segment has to be equipped with measurement connectors to hook-up measurement tools. When these facilities are not integrated, the installation has to be shut-down when a measurement has to be done.

3) Up-to-date installation drawing: An up-to-date installation drawing has to be available. In a lot of cases the installation drawings are still version 1 and have never been updated. Drawings are very important for troubleshooting and maintenance. Important points for a useable drawing: addresses, cable lengths, installation order and termination resistors.

4) Investment in test- and measurement tools: Invest in tools that are required for PROFIBUS measurements. 2 types of tools are essential:

A) The Profi trace Analyzer to verify if the communication is not showing deviations. With this tool we can detect; wrong addresses, cable breaks, instrument loss, diagnostic events, etc.

B) The oscilloscope to verify the electrical signals on the cable. With this tool we can detect; EMC, reflections, many/less termination, etc.

5) Training: The last step is the understanding of the installation rules and obtaining practical experience with the required tools. To achieve this we need training. The enterprise has to invest in the education of its technicians. This investment will pay itself back within a short time. We look forward to your enthusiastic participation in the PICC conducted courses. For course details and bookings please contact Mr.Dileep Miskin at +91-99700 06819 & email us at india@profibus.com or profibus@ulepl.com

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

With warm regards from

Indian PROFIBUS, PROFINET Association (IPA)

Profibus , Profinet website

www.profibus.com

www.Profinet.com

IPA website link :

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