



CC-Link NEWS

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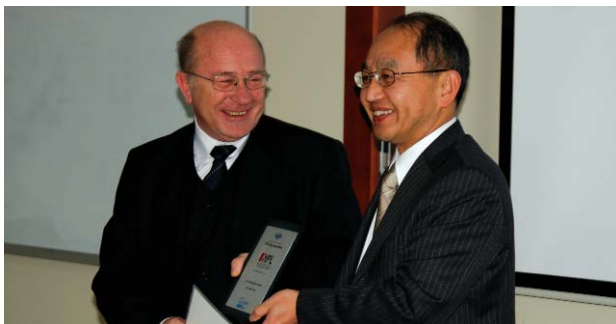
Something or other!

CLPA expands into Eastern Europe

CLPA-Europe is continuing to expand its European localisation programme by opening 2 further regional CLPA centres called Promotion Partners within Europe, in partnership with MPL Technology, Poland and CSC Automation in Kiev, Ukraine.

CLPA Promotion Partner in Europe

Due to increasing requests from local companies the CC-Link Partner Association (CLPA) has opened up a new branch office in Poland. This new sub office of CLPA-Europe is known as the CLPA Promotion Partner in Poland and has been developed in co-operation with leading Polish automation supplier MPL Technology. Andrey Barylko CEO of MPL who are renown in Poland for their technical expertise and knowledge of automation technologies states "CC-Link is a world class global fieldbus network. Here in Poland we are having more and more requests to support this technology and it is a great opportunity and compliment that this is the first country in Europe where CLPA has started this localised activity".



The key objective for the CLPA in Poland is to inform fieldbus users in a local orientation about CC-Link and CLPA and help with dissemination of information and marketing activities to promote new CC-Link activities such as the new CC-Link safety protocol.



The new centre was officially opened on the 25th of January 2007 by Mr Tanaka from CLPA Headquarters in Japan. The event was attended by a host of automation journalists, local companies and interested parties, including deputations from the main Technical universities in Poland including professors from Gliwice, Warsaw and Krakow. *Continued on page 2 >*

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CLPA Promotion Partner in Ukraine

The new CLPA centre was officially announced and opened at the Elcom 2007 exhibition at the Kiev Expo Plaza, with a presentation from David Folley of the CLPA-Europe who outlined CLPA's visions for the future. Steve Jones, Vice President of Mitsubishi Electric Europe which is a major backer of CLPA also presented information to the invited guests explaining the importance of CC-Link as a global networking strategy for companies like Mitsubishi.

Elcom is the largest automation exhibition in Ukraine and the timing of the CLPA Promotion Partner opening was planned to maximise exposure and to coincide with visits to the fair by trade journalists and major automation end users, and CLPA were rewarded by having over 30 people attend the opening presentation.

Michael Bubnov, Sales and Marketing Director of CSC said "We are very pleased to be able to be a Promotion Partner of the CLPA and open this local centre. Ukraine is a very dynamic marketplace and customers are demanding increased information on global automation technologies and the services we will offer on a local level will help meet this need regarding open fieldbus". He continues "Ukraine sits in the middle between Asian and Western European technologies and does not have any dominant domestic supplier like in the German marketplace, which makes the technology important not the company who developed it.

We believe that CC-Link will give a major benefit to automation customers in Ukraine as it is a technically superior product and is much more tolerant to application environments than most other fieldbus solutions".



This new regional CLPA centre, which is the first local representation of its kind from any Open network association or organisation in Ukraine, is now able to inform customers and potential vendors about CC-Link in their local language and also in a cultural business manner that they understand. The centre is able to offer commercial and technical advice on CC-Link, offer support to automation product manufacturers on how they can implement CC-Link connectivity, co-ordinate local CLPA member activities, work closely with local universities to inform technology students about fieldbus trends in automation, and conduct localised CC-Link marketing activities such as PR, advertising, roadshows and exhibitions in this diverse and geographically large country.

Network product of the year

CC-Link was awarded 'Network Product of the Year' after being submitted for the competition in the magazine and was shown to readers alongside other network technologies in the November and December 2006 editions.

The entrants were also placed onto the magazines website and readers voted for their choice either by reader cards in the magazine or on-line.



This award was decided on from a panel of illustrious leaders in the field of automation technology in Poland and the panel included professors from the best technical universities in Poland, the magazines technical editor, and also by a poll of magazine readers.

For CC-Link to enter the award the nomination had to fulfil the following criteria:

- 1) Based on new technologies, which it does with its latest CC-Link Safety protocol release.
- 2) Functionality and usability, again no problem as CC-Link is of a very high specification and very easy to use.
- 3) Possibility of creating material and energy saving, which is easily achieved due to CC-Links low energy usage
- 4) Quality which CC-Link as a network technology is second to none

CC-Link is backbone for printing press control

CC-Link provides the “open” network backbone for the control of 32 Tensor printing press units at Engle Printing in Lancaster, PA. It is also the network controlling 2 four-color presses at Press Enterprise in Bloomsburg, PA.

These systems were designed and installed by Computer Integrated Automation, Inc. of Carol Stream, Illinois. CC-Link is used for remote interface, integrating third party equipment devices, data collection, information handling, and the exchange of control signals between PLCs and the presses.

Benefits Provided by CC-Link

Substantial cost savings are realized through the use of CC-Link networking. The amount of wiring in a 24 unit non-networked press is typically 150,000 feet. This included hundreds of digital and analog I/O that would need to be individually wired back to a central controller. The use of CC-Link has drastically reduced the amount of wiring to approximately 10,000 feet for a dramatic savings of approximately 140,000 feet of wire. Not only is the cost of the wire itself reduced but the labor to install, route and terminate this 140,000 feet of wire is saved.

As with other CC-Link installations, this network approach eliminates the wiring mistakes so common with non-networked systems. Thus, field installation requires far less time and system start-up is considerably more efficient with less downtime for the end-user.



The speed of the CC-Link network (10Mbps) and the fast update time allows quick response in the control of the ink and water motors thus reducing the paperwaste that would occur during start-up and after plate changes. Also, the fast speed of CC-Link enables quick system response in the event of a web break or when a paper jam is detected. The effectiveness of CC-Link accuracy, speed and durability provides conditions that reduce paper waste, offers safer operating conditions and reduces damage to the press units and folders due to paper wrap-ups.



The open-technology aspect of CC-Link allows a wide variety of automation equipment from numerous manufacturers to be integrated for fast and effective control. PLCs, Motion Controllers, Pneumatic valve manifolds, Variable Frequency Drives (VFDs), Digital I/O, and Analog I/O are all connected via CC-Link for reliable control of the printing process.

Description of the CC-Link Based Printing Press

The press units are designed with a separate CC-Link network for each press unit for a modular, expandable design concept. Each press unit produces a single color. Four individual press units may be connected together to operate as a four-color press. The separate network feature allows the separate startup of each unit, and thus a separate startup of each color. An additional advantage of the separate network design is that it allows for easy expansion of the press in the field.

A series of stacked 4 unit presses are in operation as part of a 32 press unit system at Engle Printing in Lancaster PA. The original installation consisted of 24 units (4 four-color presses and 8 single color presses). Engle Printing was very satisfied with the presses and the performance of the CC-Link network and decided to expand their printing capacity by adding 8 more press units. The new presses were installed and commissioning was accomplished through the use of a modem connection. CIA was able to perform the startup from an off-site location without the need to travel to the Engle Printing. This accomplishment demonstrates the ease of expanding CC-Link based systems.

A similar installation of these same presses can be seen at Press Enterprise in Bloomsburg, PA. This installation consists of 2 four-color presses, each with a two console control unit. The two control consoles contain various operator interfaces and the CC-Link Slave and Master devices for communication to the individual press units.

New OEM slave module for CC-Link

Woodhead Industries, a division of Molex Incorporated, (NASDAQ: MOLX and MOLXA), a global developer, manufacturer and marketer of automation and electrical products for industrial environments, announces the availability of a new BradCommunications™ SST™-DC100CCS OEM slave module for the CC-Link® fieldbus.

The SST-DC100 product family is a range of OEM modules characterized by its small size (90 X 40mm) providing a powerful connection to a choice of fieldbuses (CC-Link, Profibus®-DP, DeviceNet™). The SST-DC100 modules are designed for machine builders, system designers, and operator interface manufacturers who want to implement a fieldbus connection in their products quickly and at a lower cost.

The modules of the SST-DC100 family are interchangeable, interfacing with the host system through a 60-point connector. Its pinout is identical regardless of the type of module used, requiring minimum effort by system designers to integrate the whole range of DC100 modules. The data exchanges and the various network services (configuration, diagnostic, etc) are carried out directly through dual port memory (DP-Ram), reachable via a generic library of functions.

The SST-DC100 module includes 128kbytes flash memory for storing configuration data and a dedicated processor for managing communication protocols. This embedded architecture provides optimal performance in data acquisition without overloading the host system.



More importantly, the SST-DC100CCS module is a slave module compatible with CC-Link v1.10 certified by CLPA (CC-Link Partner Association). The connection to the CC-Link network is made through a screwed 5 pin connector (COMBICON model) or by an optional HE13 male 2x5 pin connector (for remote connection using ribbon cable).

For easier integration, Woodhead Industries has made available, a development kit (part number SST-CCS-USB-KIT) including a USB v2 High Speed adapter (embedding the SST-DC100 module), a software suite (driver, API library, test tools including source code), and electronic documentations. The development kit is "ready-to-use" for Windows environments or can be deployed on any type of target system.

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