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CC-Link Partner Association (CLPA)

## **CC-Link Partner Association Brings on Cisco As Board Member CLPA Continues To Drive Technology To Align With Industrial IoT Environments**

The CC-Link Partner Association (headquarters: Nagoya, Japan; hereafter CLPA), which exists for the purpose of promoting the widespread usage of the Ethernet-based industrial open network CC-Link IE, has announced that Cisco (headquarters: California, USA) will join the CLPA as a new Board member, and that they intend to collaborate on promotion of solutions based on CC-Link IE. Cisco will participate in the CLPA, helping drive technology and requirements in the greater Asia Pacific for industrial environments, such as manufacturing.

Digitization in factories is a recent trend, and large-capacity networks are coming into demand along with the increasing need for IoT (the Internet of Things). In order to meet these demands and survive harsh environments, CLPA technology is based on the fast and reliable, 1 GB bandwidth of CC-Link IE.

### **■ Background on Cisco-CLPA cooperation**

Cisco is a leader in Ethernet protocol and security technology, helping connect devices widely used in office automation and household appliances. In order to achieve greater efficiency and higher quality in manufacturing, IoE (Internet of Everything) by using data from connected things, will improve both business process and employee safety and decision making. Manufacturing industry is also trending toward the use of Ethernet. In particular, there are rising needs within factories for a flexible network infrastructure. An example is the preparation and maintenance of wireless environments through effective use of mobile terminals. This trend is also expanding into the collecting and organizing of useful data for safer operations and improved product tracking.

The CLPA provides "CC-Link IE", which uses Ethernet technology and has been widely adopted by manufacturing industries which require broadband performance and high reliability. While CC-Link IE has an original protocol architecture to secure communication determinism, as the terminals and networks used in the manufacturing industry have become more diverse, support for the use of TCP/IP technology was also added.

As a CLPA Board member, Cisco, provides expertise in Ethernet switches and wireless, TCP/IP and security technology and will help CLPA build a solid foundation of TCP/IP within a CC-Link IE network infrastructure. Manufacturing industry is now seeing a widespread demand for industrial networks that provide high security and determinism. CC-Link IE can answer these demands with gigabit performance while maintaining TCP/IP compatibility.

## **■ CLPA Board**

The CLPA Board takes a leadership position in decisions regarding CLPA activities. Aiming for acceptance of CC-Link IE at the global level, the Board is becoming an increasingly globalized management organization. The participation of Cisco as the tenth Board member, following the US-based Molex in November 2014, will further this trend.

## **■ CC-Link Partner Association (CLPA)**

The CC-Link Partner Association (CLPA) is an open network organization established in 2000 for the promotion of the widespread usage of CC-Link. CC-Link is the open fieldbus network standard originating in Japan, organized by leading industry members including Mitsubishi Electric Corporation. The year 2007 saw the release of CC-Link IE, integrating Ethernet, the de facto standard among computer networks into the industrial space. As well as achieving 1 Gbps bandwidth, it enables the use of industrial Ethernet Standard cables and connectors, dramatically increasing maintainability.

The main activities of the CLPA include the formulation of CC-Link IE technical specifications and conducting product conformance tests; development support for devices and equipment using CC-Link IE and providing user support for device selection and application. In addition, the CLPA provides public relations and promotional support for the wider acceptance of CC-Link IE. The CLPA, which began with 163 corporate members, has expanded yearly and, as of the end of April 2015, boasts 2,337 members, of which 1,674 are overseas corporations.

### Contact for inquiries

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