

ISA100 Wireless Development and Certification Process

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FORMAT

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ABSTRACT

While ISA100 committee finishing its work to define the ISA100.11a wireless sensor network standard for Industrial application, the ISA100 Wireless Compliance Institute (WCI) has been formed to take over the compliance test and certification in order to ensure interoperability. Since the establishment of ISA100 Wireless Compliance Institute, WCI has under taken multiple tasks to help vendors on ISA100.11a wireless standard deployment. Most important, WCI has defined the certification process for ISA100.11a devices. Today hundreds and thousands of certified ISA100.11a devices have been deployed all over the world. It has been running at industry plant over years.

Over pass two years, WCI has conducted multiple “Wireless Plugfest” as one of the major step to ensure ISA100.11a device interoperability. WCI has also become one of the major players in the industry especially wireless market. Also WCI has become the best communicate for ISA100.11a vendors and developers to share their experience and thoughts.

This paper is going to introduce WCI, its functions, tasks, responsibilities, vision and how the certification process works. Especially, how could industry players such as vendors and users to benefits and influence from WCI certification process. Furthermore, some successful deployment of certified ISA100.11a solution will be introduced.

About the Author:



Dr. Penny Chen is a Principal Systems Architect at Yokogawa Industry Automation Global Strategic Technology Marketing Center in US (USMK). She is responsible for technology standardization and marketing strategy focusing on wireless, networking and related security.

Penny is actively involving in ISA100 (Wireless Systems for Automation) and ISA Wireless Compliance Institute (WCI). She is currently the Vice-Chairman of WCI and Co-Chair of the ISA100.15 Wireless Backhaul Network Working Group. Over the past 13 years, Penny focused on wireless networking technologies and security solutions for a variety of wireless technologies include Bluetooth, Wi-Fi, and Mobile technologies. Penny received a Ph.D. in Electrical Engineering from Northwestern University. Contact: penny.chen@us.yokogawa.com.