

ISA100 Wireless Compliance Institute

ISA100 Wireless[®]

Universal Industrial Wireless Standard

IEC 62734

Penny Chen, Ph.D.

Chairman of ISA100 Wireless Compliance Institute

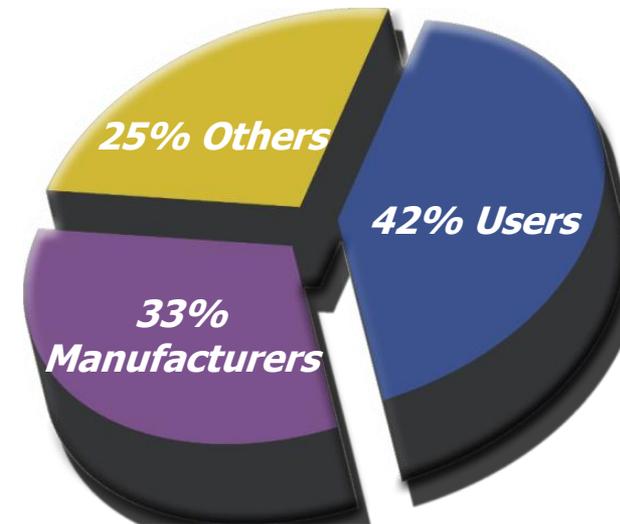
ISA100 Wireless Compliance Institute Mission

- Provides compliance testing to assure interoperability and integration
- Provides a single location to implement the family of ISA100 technologies
- Provides the essential implementation specifications that vendors need to develop product and that users want
- Advocacy for end-user needs through industry collaboration and growing the technology ecosystem

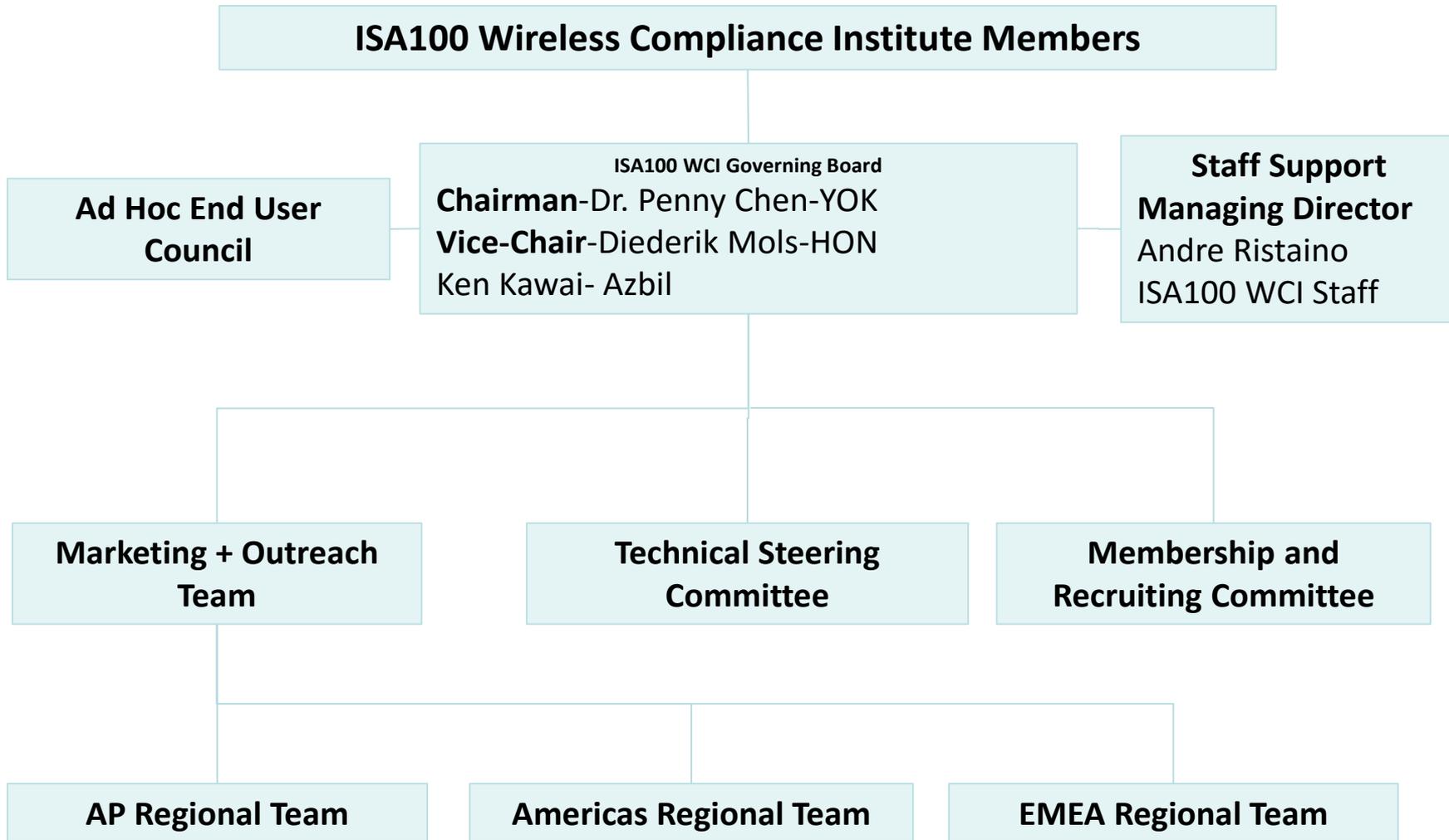
ISA100 Wireless – The Confident Choice for the End User

- Designed with and for the end user
- Single platform for best-in-class of devices
- One infrastructure ensure lower the cost of installation, operation and maintenance throughout lifecycle
- Supports legacy applications plus beyond the traditional industrial
- Open consensus international standard to ensure long stability

ISA100 voters



ISA100 WCI Organization Structure



ISA100 Wireless Fast Facts

- International standard IEC 62734 since 2014
- Complies with ETSI EN 300 320 v1.8.1 (LBT)
- Native IPv6 to the device
- ISA100 Wireless Device Portfolio - 52 devices
- Certified ISA100 Wireless Devices – 30 devices
- April 2015 GasSecure GS-01 gas detector achieves a world first with SIL-2 Certification in Wireless Gas Detection; total of 3 SIL certified devices today
- Focus on Certification to ensure Interoperability and best-in-class solutions
- Availability of ISA100 Wireless Modules / Stacks (see contact details on www.isa100wci.org)
 1. CDS (formerly Nivis)
 2. Murata
 3. Yokogawa (2 stacks)
 4. Honeywell

ISA100 Wireless Certificate



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P.O. Box 12217
Research Triangle Park, NC 27709

CERTIFICATE OF CONFORMANCE

Manufacturer:	Armstrong International, Inc.
Model Number:	AIM Model ST6700
Name/Description:	Steam Trap Monitor
Stack Version:	V N310-I/02.09
Hardware Revision:	1.4
Application Firmware:	01.00
Test Kit Version:	DTK 1.14
Certification Type:	Device
Test Profiles:	Analog Input / Application Firmware Download
Test Lab/Site:	ISA100 Wireless Compliance Institute
Test Date:	4/6/2015
Registration Date:	4/7/2015
Registration Listing:	www.isa100WCI.org

Andre Ristaino
Managing Director, ASCI



Recent ISA100 Devices Added

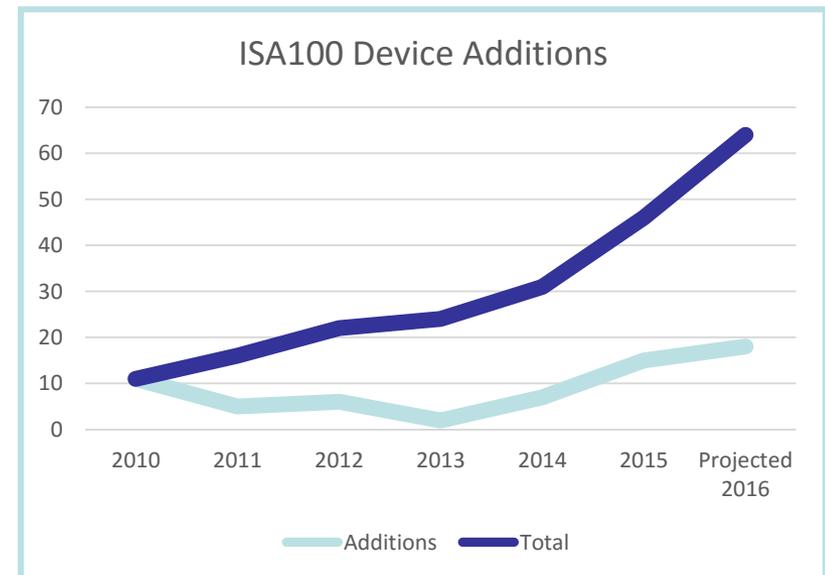
There are 15 certified devices added in CY 2015

Certified devices added in 2016

	Device Type / Manufacturer	Certified
1	Yokogawa Advanced Communication Module / Stack	Yes
2	Riken Keiki Gas Detector	Yes
3	Murata Communication Module / Stack	Yes
4	SKF Vibration Sensor	Yes

Total ISA100 Wireless device portfolio = 52

Total Certified ISA1000 Wireless Devices = 30



ISA 100 Wireless Product Portfolio

Infrastructure

Measurement & Control

HSE + Life cycle



Independent Gateway

- Yokogawa, Honeywell



Temperature

- Yokogawa, Honeywell



Corrosion

- RCS , Honeywell



Access Point (AP)

- Yokogawa, Honeywell



Presser / Flow

- Yokogawa, Honeywell



Steam Trap

- Armstrong, Bitherm, Spirax Sarco, TLV



Integrated Gateway/AP

- Yokogawa, Honeywell, CDS, Apprion, Nexcom



Level

- Yokogawa, Honeywell



Vibration

- GE, SKF, Honeywell



GW/AP + Recorder

- Yokogawa



DI/DO, AI

- Yokogawa, Honeywell



Gas

- Gas Secure, Scott Safety, New Cosmos, Riken Keiki



Adapter (HART, etc.)

- Yokogawa, Honeywell



Valve Position

- Eltav, Flowserve, Honeywell



pH

- Yokogawa, Honeywell

Visit the ISA100 Wireless Website

- White Papers
 1. ISA100 Wireless Whitepaper available for download from website -- *authored by Jay Werb, Technical Director*
 2. Stability and Reliability of ISA100 Wireless -- *authored by Nippon Steel and Sumikin Engineering, Ltd.*
 3. Improving Asset Management and Safety of an Offshore Platform – *Petronas Wireless for Safety Research Study (February 2016)*
- Event / News
 1. Petronas receives Excellence in Automation award February 2016
 2. Murata wireless communication module certified
 3. 3rd WCI User Conference in Rotterdam on September 27th 2016, the topic will be: ISA100 Wireless For Safety
- Full list of certified/registered ISA100 Wireless devices
- Over 40 variety of use cases and customer stories

Interest is Growing for ISA100 Wireless

Website Traffic

	2014 EOY	2015 EOY	Average thru May 2016
Visitors/month	15,000	17,293	20,050
Page Views/month	20,000	27,091	29,579

Visit the ISA100 WCI website www.isa100wci.org

ISA100 Wireless added to FDI Platform

ISA100 WCI has been collaborating with the FieldComm Group's technical team on the Field Device Integration (FDI) project.

- FDI Version 1.2 will include support for ISA100 Wireless sensor networks and devices.
- Provides end-users more choices for technology selection and system architecture.

<https://www.fieldcommgroup.org/posts/leading-global-automation-technology-foundations-band-together-support-fdi-technology>

ISA100 Wireless Global Installation Map

Many Billions of Operation Hours

