



INTEROP 1451 @

**IEEE 1451 SMART TRANSDUCER INTERFACES
INTEROPERABILITY TESTING**

**October 21-23, 2018, Diplomat Ballroom,
Omni Shoreham Hotel, Washington, DC**

WHAT:

IEEE 1451 Standards *Plugfest*,

plus

Technical working sessions on IEEE 1451 Standards development @ IECON 2018

OBJECTIVES:

- Provide the IEEE 1451/21451 standards community with verification and validation platforms for the standards so the community can test their development of their applications to these benchmarks, ensuring compliance and interoperability to their systems.
- The standards and platforms will provide compliance and interoperability to the IoT applications and its industrial components (IIoT)
- Encourage industry partners to make sure of the verification and validation platforms for IEEE Standards compliance in the industry context.
- Verification and developing platforms are being implemented following several different approaches, allowing coverage of specific sensor transducer applications conforming to the IEEE P1451 standards.
- Goal of these platforms is to support users with “turn-key” approaches for their applications, by providing relatively easy initial start-up processes, allowing easy installation and configuration.

BENEFITS TO IECON, IES, IMS

Introduce and provide IECON 2018 conference participants with exposure to standards development efforts in IES, in collaboration with IEEE IMS, and to show and propagate the IEEE 1451 Sensor Networks Standards family and the progress in IoT/IIoT/CPS harmonization. Invite and encourage IECON 2018 attendees interested in smart sensor and sensor network standards to attend INTEROP 1451.



Sponsors:

IES Standards TC

IMS TC-9 Sensor Technology



PROGRAM

The 44th Annual Conference of the
IEEE Industrial Electronics Society

(3 DAY)

Washington D.C., USA | October 21-23, 2018

	INTEROP 1451 @ Diplomat Ballroom					
	SUNDAY Oct. 21		MONDAY Oct. 22		TUESDAY Oct. 23	
8 am	Plugfest Opening Session (8:30am – 10am)	Plugfest Demo Preparation & testing	IES Stds TC (Diplomat Ballroom)	Plugfest Demos (All*)	Standards F2F Sessions	Plugfest Demos (All*)
9 am			Stds F2F Sessions 1451.0		1451.001	
10 am			F2F WG Meeting P1451.002		1451.002	
11 am IECON Keynotes					1451.5 BT	
11:45 am – 1 pm	Keynote Lunch					
1 pm	Industry Forums @ Regency Ballroom	Plugfest Demo Preparation & testing 	1451.1.5	Plugfest Demos (All*)	1451.5 NB- IOT	Plugfest Demos (All*)
2 pm			1451.2		1451.5 WiFi	
3 pm			1451.1.6		1451.99 INDIA	
4 pm			F2F WG Meeting 1451.1.6		IEEE 1451 General Discussions (All)	
5 pm		Preliminary Live Demos	1451.4		IEEE 1451 Gen. Disc- ussions & Plan next Plugfest/F2F meetings (All)	
6 pm						



***All Plugfest Demos**

1451.002 Low Power TIM (Esprito-Santo)

1451.001 Signal Treatment (Monte, Stemp)

1451.1 Common Network Services (Schmalzel, Trafford)

1451.1.4 XMPP (Waher, Schmalzel, Trafford)

1451.1.5 SNMP (Wu)

1451.1.6 MQTT (Nishi)

1451.5 NB-IoT (Tsang)

1451.5 Wifi Smart Grid (Lee, Hall)

1451.99 India (remote online) (Kuppa)

STWS- Web Service Interface Gateway/NCAP (Song)

IEEE 1451 Standards:

Participating

1. P1451.0 Core functions, TEDS	Session discussion (SS)
2. P1451.1 Common Network Services	SS, Demo/Plugfest
3. P1451.2 Serial Interface	SS?
4. P1451.4 mixed mode, Appended TEDS, with API	SS?
5. P1451.5 wireless – NB-IoT	SS, Demo/Plugfest
6. P1451.7 sensor RFID	SS?
7. P1451.8 wind turbine	SS?
8. P1451.1.4 XMPP	SS Demo/Plugfest
9. P1451.1.5 SNMP	SS, Demo/Plugfest
10. P1451.1.6 MQTT	SS, Demo/Plugfest
11. 1451-001-2017 Signal treatment	SS, Demo/Plugfest
12. P1451-002 Low Power sensor apps	SS, Demo/Plugfest
13. P1451-99 Harmonization	SS, Demo/Plugfest?
14. P1451-99 India	Demo/Plugfest (remote)

Note:

1. Items with '?' indicates commitment pending



PROGRAM ORGANIZERS:

V. Huang IES Standards TC (STC)

Allen Chen IES Standards TC (STC)

Kang Lee IMS TC-9 (TC9)

DEMO ORGANIZERS:

John Schmalzel TC9

Russell Trafford TC9

Antonio Espirito-Santo STC

STDS SESSION ORGANIZERS:

Kang Lee TC9

Eugene Song TC9

REGISTRATION:

1. INTEROP 1451 Plugfest Only (Demos, F2F STDS sessions) : USD\$400 **INTEROP Rate**
2. Full IECON Conference (includes INTEROP 1451 Plugfest) : Full regular IECON fee

Note: items 1, 2 include lunch, coffee breaks, reception, and conference access. No Banquet.

Register as IEEE/IES Member/non-Member and use the INTEROP Code

Conference banquet tickets can be purchased separately at the Registration Desk.