IHE USA Announces New Plug-a-thon Program

IHE North American Connectathon 2018
January 15-19, 2018

John Donnelly, Plug-a-thon Program Manager
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Email: jtdonnelly@intepro.biz
Thanks for joining us today

- Webinar will be recorded and posted online at www.iheusa.org/webinars-ihe-usa
- We will host a Q&A session at the end of the webinar
- Submit your questions in advance using the Q&A box on the lower left hand of your WebEx
Today’s Speakers

John D. Donnelly
IHE USA Program Manager, Plug-a-thons
Email: jtdonnelly@intepro.biz

Todd Cooper
Technical Project Manager, Devices on FHIR
Email: toddcooperafc@gmail.com
Today’s Speakers

Lisa Spellman
Technical Project Manager, Internet of Things - Medical
Email: lspellman@gmail.com

James St. Clair
Technical Project Manager, Blockchain - Healthcare
Email: jstclair@healthfintech.org
Today’s Agenda

- IHE NA Connectathon 2018 Venue
- IHE Plug-a-thon Track Introduction
- Highlights of Each Plug-a-thon Track
- New Sponsorship Opportunity
- Track Participant Registration Process
- On the Road to Plug-a-thon 2018
IHE North American Connectathon 2018
January 15-19, 2018

• Co-location of IHE USA’s new Plug-a-thon tracks
• Huntington Convention Center of Cleveland and HIMSS Innovation Center
• Downtown Cleveland, Ohio

Visit their websites to learn more at himssinnovationcenter.org and clevelandconventions.com
IHE USA Introduces Plug-a-thons

• Organized around specific Health IT topics in developmental stage of connectivity or interoperability maturity

• Provides a venue for connectivity options and opportunities to be discussed, presented, developed and tested by partner systems

• Test targeted use cases determined by participants and sponsors

• Two-day events focused on introductory presentations to increase awareness of potential health IT standards to leverage
Plug-a-thons...

- Earliest attention to the topic in the product testing continuum
  - Beneficial in informing the standards development process and priorities
- Plug-a-thon track will explore:
  - Problems or use cases in healthcare that can be addressed with this technology
  - How existing standards offerings and non-healthcare industry activities that use this technology could be leveraged
- Binding of different existing IT realms; e.g. Smartphone apps with legacy health IT realm
- Partnering opportunity for new health IT vendors to connect with current healthcare data sources and sponsoring stakeholders
- Successful Plug-a-thon will include education, coding, transaction testing and stakeholder networking
Health IT Testing Continuum

IHE Plug-a-thons
- Rigor: Low
- Iterative testing process based on use cases
- Similar to Hackathon
- Standards and code in development
- Code will change on-site

Connectathons
- Rigor: Medium
- Structured, Peer-to-Peer testing
- Conformance
- Multiple standards
- Established standards

Conformity Assessment
- Rigor: High
- Selected IHE Profiles in Final Text
- ISO accredited test labs
- Strict version controls
IHE USA’s Plug-a-thon Tracks

- Four Plug-a-thon tracks included at the IHE NA Connectathon 2018
  - mHealth
  - Devices on FHIR®
  - New! Internet of Things - Medical
  - New! Blockchain - Healthcare
- Each Track to be managed by a dedicated Technical Project Manager
- Track use cases to be explored and finalized by participants and industry stakeholders / sponsors during pre-event WebEx’s
mHealth Track

Exploration to connect the new, prolific generation of health IT participant; the smartphone app and internet cloud product developer, with the current keepers of healthcare data; the health systems, integrated delivery networks (IDNs), and Health Information Exchanges.

It is a collaborative effort between data “owner” organizations and new, innovative application developers.

Systems and Applications include:
- Smartphone app developers
- Patient & provider services in the Cloud, and Cloud Interface vendors
- FHIR® enabled apps (edge systems)
- Health system and Health Information Organization’s (with clinical data), FHIR® servers

mHealth Track: January 17-18, 2018
mHealth Track

Speaks to the advancement of innovation in healthcare by:

- Targets small, startup health IT companies to join the interoperability conversation
- Promoting patient-facing applications and Cloud services for new care paradigms
- Potential to “leap-frog” prior health IT standards and build on modern smartphone operating environments and platforms

Benefits to Participation:

- Low price of entry to be a part of the connectivity solution development
- Get your specific product offering or service and targeted use cases into the IHE standards development process
- Opportunity to share your successes in the topic and learn what pitfalls to avoid

mHealth Track:
January 17-18, 2018
mHealth Track

Explore, learn and gain hands-on experience with potential use case including:

• Patient identity management
• Multi-location care coordination
• Care protocols involving home-based and self-managed care
• Availability of FHIR®© resources & implementation guides patient-provider information exchange
• Real-world story scenarios that span hospital, home and mobile contexts

Technical Project Managers –
John Donnelly (jtdonnelly@intepro.biz) and Michael Gould (mjg6288@comcast.net)
Devices on FHIR®© Track

Leverages HL7 FHIR to exchange health device information: on-demand, real-time, granular. RESTful technology can simplify utilization of this content in knowledge-driven applications such as clinical decision support, care coordination, precision medicine and analytics (population health & predictive).

Devices on FHIR is a collaborative effort between three organizations: IHE USA, HL7 and Personal Connected Health Alliance

Systems and Applications include:
- Health Devices (personal health and acute / chronic care)
- Infrastructure systems (gateways, FHIR servers, identity managers)
- Applications and Services (Clinical Decision Support, care coordination, machine / deep-learning, CMMS, etc.)

Devices on FHIR Track: January 16-17, 2018
Postnatal Preeclampsia (P3E) Use Case:
Story line: Holly was monitored for preeclampsia (hypertension) during pregnancy; after delivery (postnatal) everyone expected her blood pressure to return to normal, but it didn’t. Luckily she was being monitored, the problems quickly identified, her caregivers alerted, and she returned to hospital before the condition progressed to eclampsia and seizures.

Use case includes:

- In-hospital and at home / mobile care contexts
- Acute point-of-care care devices and personal health devices
- May also include lab including Point of Care devices and transactions
- Location tracking and Device Identification / Association Management
- Cloud-based and “locally” networked systems & applications

Devices on FHIR Track: January 16-17, 2018
Devices on FHIR Track

Participants should have:

- HTTP and web application development tools & technologies experience
- Device or infrastructure or application that can be updated to support Devices on FHIR exchange
- Device simulators can be used, but real hands-on is preferred
- **Sample data sets** will be provided to facilitate parallel Plug-a-thon activities
- **Linkages** with main IHE Connectathon FHIR servers should also be available
- Goal is to have real-time exchange of data from device to server to applications

Technical Project Manager - Todd Cooper (toddcooperafc@gmail.com)
Internet of Things - Medical Track

Aimed to explore the new tier of connectivity grounded in the growing number of facility and resource management solutions, as well as medical technology that leverage pervasive sensor networks and control systems.

It is a collaborative effort between facility and resource management, information technology and biomed departments and the maturing sensor marketplace.

Systems and Applications include:

• Hospital facility management systems
• Hospital biomedical resource management systems
• Sensor manufactures/vendors
• Ambulatory care clinic facility management systems
• Home health care devices and applications

Internet of Things - Medical Track: January 16-17, 2018
Internet of Things – Medical Track

Speaks to the advancement of innovation in healthcare by:

- Targets small, startup sensor companies to join the healthcare interoperability conversation
- Explores national/ international initiatives and platforms that are incubators for this new “thin” connectivity option
- Identifying the necessary collaboration between standards offerings from multiple technology realms (ISO, IEEE, HI7, IHE, etc.)

Benefits to Participation:

- Low price of entry to be a part of the connectivity solution development
- Get your specific product offering or service and targeted use cases into the IHE standards development process
- Opportunity to share your successes in the topic and learn what pitfalls to avoid

mHealth Track: January 17-18, 2018
Internet of Things - Medical Track

Explore, learn and gain hands-on experience with potential use case including:

• Operations and energy management
• Room automation
• Medical resources tracking
• Post-acute and chronic care management

Technical Project Manager – Lisa Spellman (lspellman@gmail.com)
Aimed to explore and learn about this new type of trusted connectivity solution that is the technology underpinning the bitcoin phenomenon for creating continuous streams of healthcare information across the medical ecosystem.

It is a collaborative effort between financial, clinical management, and information technology departments to create a new trust community for securely sharing healthcare information across enterprises.

Blockchain technology has the potential to impact every aspect of health IT.
Blockchain Track

Systems and Applications that could be revolutionized include:

- Electronic Health Record systems
- Hospital supply chain management systems
- Hospital revenue cycle management systems
- Ambulatory practice management systems

Blockchain can directly impact the evolution of a number of healthcare processes and use cases to include:

- Patient Identity Management
- Payment Processes
- Medication Information
- Health Information Exchange

Blockchain Track: January 17-18, 2018
Blockchain Track

Explore, learn and gain hands-on experience with potential use case including:

- Tooling and open source that can be used for development and conformity assessment
- Terminology and information models for representing device content
- Implementation of blockchain systems
- Integration of blockchain with existing health IT systems
- Information from the ONC blockchain challenge in 2016

Technical Project Manager – James St Clair (jstclair@healthfintech.org)
New Plug-a-thon Sponsorship Available

Support vendor collaboration and innovation at the IHE NA Connectathon Plug-a-thons with the industry’s top engineers, architects and project managers.

• Open to all stakeholders for that Plug-a-thon topic including:
  o Healthcare industry associations and societies
  o Professional associations and colleges
  o Care provider organizations, regional/state Health Information Organizations and Networks
  o Health IT vendors and trade associations

• Multiple sponsors per track permissible and encouraged
• Open invitation to participate on all Plug-a-thon planning WebEx’s

Contact John Donnelly for more information.
Sponsorship Benefits

Marketing: Company name or logo displayed on:
• All communications promoting the testing track
• Displayed in prominent areas on-site at IHE USA Plug-a-thon
• Featured on IHE USA’s website
• Provide an overview of your organization during the Track educational sessions onsite
• Featured at IHE USA presentation at HIMSS18 Annual Conference & Exhibition

Value:
• Use of IHE USA Plug-a-thon sponsor designation on own marketing materials
• Daily badge fee waived for attendance at Plug-a-thon onsite
• Vendors zero charge to test 2nd system at the IHE NA Connectathon 2018 ($5,200+ value)*

Investment: $14,500 full track sponsorship or from $3,500 for shared track sponsorship

Contact John Donnelly for more information.
Participation Fees

<table>
<thead>
<tr>
<th>Number of Plug-a-thon Tracks</th>
<th>Pre-Register before December 1, 2017 at 11:59pm ET</th>
<th>Register after December 1, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$700</td>
<td>$1,135</td>
</tr>
<tr>
<td>2</td>
<td>$1,000</td>
<td>$1,435</td>
</tr>
<tr>
<td>3</td>
<td>$1,300</td>
<td>$1,735</td>
</tr>
<tr>
<td>4</td>
<td>$1,600</td>
<td>$2,035</td>
</tr>
</tbody>
</table>

• **Participation fee covers:** Two-day badge for the IHE NA Connectathon, participation at all track-specific and cross-track education and brainstorming sessions, intra and internet communications services, lunch on both days and a Plug-a-thon special networking event on Wednesday evening.

• $300 discount for 2\textsuperscript{nd} person from the same company participating in the same Plug-a-thon Track; contact John Donnelly for more information

• Fee waived for companies participating in the IHE NA Connectathon Classic
Participation Fees

• Companies can register to participate in more than one track, but are required to staff their testing table(s) with one person at all times of the event.

• Connectathon Classic Participants that register for the Plug-a-thon must have staff available to support testing and test partners in the Connectathon Classic and the Plug-a-thon track(s).

• Special Registration Considerations for Health Care Providers/ Health Information Organizations that bring their data to the mHealth Track. Contact jtdonnelly@intepro.biz for more information.
## Registration Steps

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>September 25 – December 15, 2017</td>
<td>Participant registration opens for all Plug-a-thon Tracks; visit <a href="http://www.iheusa.org/plug-a-thon">www.iheusa.org/plug-a-thon</a> to register online.</td>
</tr>
<tr>
<td></td>
<td>Technical Project Managers discuss use cases with track participants to finalize use cases.</td>
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<tr>
<td>December 2, 2017</td>
<td>Participation fees increase for all Plug-a-thon Tracks</td>
</tr>
<tr>
<td>November 6, 2017 – December 15, 2017</td>
<td>Participants can make payment for participation fees online</td>
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</tbody>
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Contact John Donnelly at [jtdonnelly@intepro.biz](mailto:jtdonnelly@intepro.biz) or your track technical project manager directly for more information.
## Plug-a-thon Key Activities & Dates

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<tr>
<td>November 6, 2017</td>
<td>Participants can make payment for participation fees online</td>
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<tr>
<td>November 6, 2017 – January 12, 2018</td>
<td>Participants attend track-specific WebEx meetings to introduce organizations/participants and complete basic network connectivity requirements</td>
</tr>
<tr>
<td>January 16-17, 2018</td>
<td>Devices on FHIR and Internet of Things - Medical Plug-a-thons</td>
</tr>
<tr>
<td>January 17-18, 2018</td>
<td>mHealth and Blockchain - Healthcare Plug-a-thons</td>
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## Contact Us with Your Questions

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<tr>
<td>IHE USA – General Event Questions</td>
<td><a href="mailto:Connectathon@ihe.net">Connectathon@ihe.net</a></td>
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Q&A Session

• Submit your questions in the Q&A box on the lower left hand of your WebEx now

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