Medical Device Connectivity

Leveraging current approaches, developing new capabilities.

Join the College of Biomedical Engineers to explore Service-Orientated Device Connectivity.

10am–4pm, Saturday 10 August 2019

Engineers Australia
Level 31, 600 Bourke Street, Melbourne

Medical device connectivity is a key component of health informatics, biomedical engineering and health information systems management. The role of medical devices is rapidly progressing from patient physiological monitoring and care delivery via drug and fluid delivery systems to include specialist anaesthesia, operating theatre, intensive care and emergency department systems.

"Devices" increasingly include health Software as a Medical Device (SAMD) and patient-connected systems leveraging AI/machine learning powered technologies. Alongside this has been the widespread adoption of specialist and general EMR (electronic medical records) systems. These systems no longer can operate as independent entities glued together by clinicians transferring and interpreting data.

Facilitated by US based biomedical engineer Todd Cooper, this workshop will explore Service-oriented Device Connectivity (SDC), an emerging standard for integrating devices from the device interface to connected point-of-care systems to remote applications including EHRs.

Todd Cooper is one of the pioneers of standards-based medical device interoperability. He is a member of the FHIR Foundation, a board member of IHE and co-founder of IHE Patient Care Devices working group.

TICKETS

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MORE INFORMATION

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REGISTRATION

www.hisa.org.au/hic/workshop-mdc
How will service oriented device connectivity impact on hospitals, healthcare delivery, and the medical device industry and regulators?

Register now to learn about this emerging approach to device communication.

How will service oriented device connectivity impact on hospitals, healthcare delivery and the medical device industry and regulators? This workshop will cover specific issues, challenges, and opportunities with a focus on understanding Australian and Asia-Pacific viewpoint, including usability, integration challenges in acute care, regulatory approaches, Artificial Intelligence (AI) and Machine Learning (ML), Software as a Medical Device (SAMD), closed-loop control across multiple devices, automation of medical procedures, and remote control.

SDC device-to-device interoperability technology is optimized for high-acuity environments such as operating rooms, intensive care units, or emergency departments. Connecting device-sourced information in diverse ways is not new with standards such as HL7v2 messaging and IEEE 11073 semantic content standards through a gateway to EHRs and other enterprise systems and applications. These standards have already been integrated into device connectivity profiles by IHE Patient Care Devices (PCD) covering physiological and vital signs monitors and infusion pumps.

SDC is designed to integrate a much broader set of medical equipment, resulting in the need to integrate with interoperability technologies that are established for those systems such as imaging (DICOM) and operating theatre systems.

Join us at this workshop to learn about this emerging approach to device communication and have our local experience added to the development of the SDC@IHE program proposals, roadmap and timeline.

Who should attend:
- Those involved in the development, integration and use of connected medical technology for hospitals and acute care environments
- Clinical technologists / biomedical engineers ("users") & system implementers / integrators / clinicians
- Medical technology developers and vendors (especially for acute care environments)
- Regulatory and governmental agencies and public policy makers
- Enterprise IT system developers and integrators of device-based content and services
- Researchers and Medical Device Informatics SMEs.