SDC: a new era in clinical care

Medical devices and systems that enable multi-vendor data sharing open up new possibilities for clinical applications in a secure IT environment. This will be demonstrated by the “ICU Patient Care in an Isolation Room” showcase exhibit at the HIMSS' Global Health Conference in Orlando, Florida, from March 14 to 18, 2022. The SDC interoperability standard plays a key role in overcoming obstacles in patient care.

- Remote monitoring of patients in isolation and documenting care
- Monitoring and alarm management outside the patient’s room
- ISO/IEEE 11073 Service-oriented Device Connectivity (SDC) enables interoperable data sharing

“Our showcase exhibit will demonstrate how ventilated patients in ICU can continue to receive the same level of treatment with less effort and disruption while at the same time increasing protection for medical staff. Connected medical technology based on interoperability principles and the internationally recognized SDC standard provides the foundation for a new era in care quality,” says Daniel Fuckert, Director Product Management, Acute Care Interoperability at Dräger. The simulation shows how a patient in isolation can be properly treated while effectively protecting staff from infection. ICU staff can fully monitor infectious patients on breathing support from outside the room: An Arcomed Syramed µSP6000 infusion pump in combination with Dräger’s Savina 300 ventilator and Infinity M540 patient monitor send aggregated data to a point-of-care cockpit where staff members can operate specified functions for patient monitoring remotely. The connected system also securely sends patient alarm alerts to ICU staff on their Ascom Myco mobile devices or via the Ascom Digistat Smart Central mobile workflow solution.

Safe alarm distribution and efficient patient data recording

“SDC allows alarms to be distributed reliably and effectively. Medical staff receive notifications about their patients on the mobile devices. Non-critical alarms can be acknowledged after a

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quick look through the window into the isolation room. This workflow allows staff to intervene right on time and it also reduces the burden for medical staff, since they no longer have to put on and remove protective equipment as often,” says Britta Hanley, Head of Strategic Healthcare Partners at Ascom.

Study results show that data records of isolated patients are significantly lower compared to non-isolated patients. The showcase exhibit demonstrates how accurate data is automatically recorded in real time from devices around the patient’s bed using the Health Level 7 (HL7) protocol. Integrating this data into the Epic electronic medical record (EMR) helps medical staff keep an eye on the patient and record their vital signs without having to enter the isolation room and risk contamination. SDC is compatible with the widely recognized HL7 clinical standard, which means Epic’s software can process and automatically document data very efficiently.

Sharing data in line with SDC standards
The non-profit organization OR.NET developed the SDC infrastructure to enable data to be shared seamlessly. It is an organization that encourages networking between industry specialists, doctors, and researchers.

“The ISO/IEEE 11073 family of standards has closed the gap in data transfer between medical devices. This dynamic, multi-vendor network offers entirely new features and facilitates use cases that are of great value in a medical setting, as the showcase exhibit demonstrates," says Dr. Martin Kasparick from the IMC Institute at the University of Rostock and member of the board of OR.NET e.V.

More about the HIMSS interoperability showcase exhibits
The HIMSS interoperability showcase exhibits are interactive demonstrations that “display the exchange, access, and use of healthcare data through profiles and standards in real time.”

Market participants, such as medical system manufacturers, healthcare providers, and

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organizations responsible for developing standards are working together to demonstrate the power of standards-based healthcare interoperability. The program features systems that exchange and use data in real time to improve care, outcomes, and user experience. The demonstrated solutions include prototypes, approved products, or a mix of both.

**Legal note:** Information about the solution at the showcase demonstration is provisional. The solution is under development and is being used for demonstration purposes only. It is not intended for medical use and is not commercially available. Future availability cannot be guaranteed. This solution has not been authorized or approved by the FDA and has not been submitted for FDA 510(k) clearance.

Drägerwerk AG & Co. KGaA is the manufacturer of the Savina 300 and Andover, MA-based Draeger Medical Systems, Inc. manufactures the Infinity M540.

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The foundation for a new level of care quality, even during a pandemic: Service-oriented Device Connectivity (SDC) makes it possible to treat ventilated patients in ICU with less effort and disruption while at the same time offering medical staff higher levels of protection.

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