

IHE participation

Cerner® has been an active participant in the IHE patient care devices (PCD) domain for a number of years, where IHE profiles serve to provide interoperability across all medical devices.

Cerner's *CareAware*® device connectivity architecture has completed testing for several IHE profiles, using its vendor-agnostic platform to send communications from third party medical devices to third party clinical information systems.

Within the PCD domain, CareAware has been recognized as IHE-compliant within the following profiles:

- Device Enterprise Communication (DEC)
- Alarm Communication Management (ACM)
- Point-of-Care Infusion Verification (PIV)
- Consistent Time

Profiles and actors

The flexibility of the *CareAware* architecture has enabled IHE-compliance across a wide-range of PCD profiles, making CareAware a rich-featured device connectivity platform that can implement standards-based workflows such as Device Observation, Alarm Management, Pump Auto-Programming and Infusion Management.

[DEC] Device Enterprise Communication transmits information from medical devices at the point of care to enterprise applications.

Within the DEC profile, *CareAware* passed the IHE tests as a **Device Observation Reporter**, receiving data from a patient-care device and sending it to a clinical information system.

[ACM] Alert Communication Management communicates alerts (alarms - physiological or technical, or advisories), ensuring the right alert with the right priority gets to the right individuals with the right content.

Within the ACM profile, *CareAware* has passed the IHE tests as an **Alarm Manager**, receiving an alarm from an **Alarm Reporter**, analyzing the alarm, and dispatching the alarm to an end-user communication device. Additionally, *CareAware* has passed tests as an Alarm Reporter, which sources the alarm to the Alarm Manager.

[PIV] Point of Care Infusion Verification communicates medication orders to an infusion pump or pump management system.

Within the PIV profile, *CareAware* has passed the IHE tests as an **Infusion Order Programmer**, sending infusion order information to an infusion pump.

Interoperability testing

At the 2016 North American Connectathon, Cerner proved its ability to connect and communicate patient data with third party clinical information systems by passing IHE testing with Epic in the DEC profile. Additionally, in 2016 *CareAware* was used as a Device Observation Reporter to send PCD data to the clinical information systems of Epic, Surgical Information Systems and ALERT.

IHE N.A. Connectathon 2017		
Product name	Version	Owner
IBUS_6_X	6.0	Ali Nakoulima
This testing session was held from 1/23/17 through 1/27/17		

Integration profile	Results per integration profile/actor/option			
	Actor	Option	Type	Result
Device enterprise communication	Device observation consumer	None	S	Pass
Device enterprise communication	Device observation reporter	None	S	Pass
Infusion pump event communication	Device Observation consumer	None	T	Pass
Alert communication management	Alert manager	None	S	Pass
Point-of-care infusion verification	Infusion order programmer	None	S	Pass
Consistent time	Time client	None	T	Pass
T: thorough / S: supportive				