

IHE compliance and participation

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

Cerner *CareAware*[®] completes testing to gain compliance on established profiles and support vendors in their pursuit of compliance. *CareAware* serves as an intelligent middleware interface between medical device systems and clinical information systems, such as electronic health records (EHR) and electronic medical records (EMR).

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 feature-rich device connectivity platform that can implement standards-based workflows, such as Device Observation, Alarm Management, Pump Auto-Programming and Infusion Management.

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

By meeting the IHE standard, *CareAware*, as a **Device Observation Reporter** brokers medical device data such as discrete, spot check or waveforms, to one or more enterprise applications or systems. Also, by enabling its **Device Observation Consumer** capabilities *CareAware* plays an important supportive role for integration efforts of medical device systems that are either seeking or maintaining compliance with the IHE standard.

Alert Communication Management (ACM) – communicates alerts (physiological or technical or advisories) to ensure 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.

Point-of-Care Infusion Verification (PIV) – 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. Within the PIV, PCA, PUMP profile, CareAware passes the IHE test as an **Infusion Order Programmer**.

Interoperability testing

IHE N.A. Connectathon 2020		
Product name	Version	Owner
CareAware iBus	6.X	Cerner
This testing session was held from 2/2/2020 through 2/6/2020		

Results per integration profile/actor/option				
Integration profile	Actor	Option	Type	Result
Device enterprise communication	Device observation consumer	None	S	Pass
Device enterprise communication	Device observation reporter	None	T	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	Default	T	Pass
Point-of-care infusion verification	Infusion order programmer	PIV-PCA-PUMP	T	Pass
<p>T: (Thorough): Candidate system must undergo, at least twice over time, a more permuted series of tests to prove compliance.</p> <p>S: (Supportive): Candidate system has reached a graduated state from thorough and plays more a role to help other systems reach compliance.</p>				