

## IHE 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 EHRs and EMRs.

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.

### **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), 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.

**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 2019		
Product name	Version	Owner
CareAware iBus	6.X	Cerner
This testing session was held from 1/21/19 through 1/25/19		

Results per integration profile/actor/option				
Integration profile	Actor	Option	Type	Result
Device enterprise communication	Device observation consumer	Default	S	Pass
Device enterprise communication	Device observation consumer reporter	Default	S	Pass
Medical equipment management location services	Location observation consumer	Default	T	Pass
Infusion pump event communication	Device observation consumer	Default	T	Pass
Alert communication management	Alert manager	Default	S	Pass
Point-of-Care infusion verification	Infusion order programmer	Default	S	Pass
Consistent time	Time client	Default	T	Pass

<b>Point-of-Care infusion verification</b>	<b>Infusion order programmer</b>	<b>PIV-PCA-PUMP</b>	<b>T</b>	<b>Pass</b>
<b>Device enterprise communication</b>	<b>Device observation reporter</b>	<b>Waveform content module</b>	<b>T</b>	<b>Pass</b>

**T: (Thorough):** Candidate system must undergo, at least twice over time, a more permutated series of tests to prove compliance.  
**S: (Supportive):** Candidate system has reached a graduated state from Thorough and plays more a role to help other systems reach compliance.