GE Healthcare

Connectivity Solutions for the CARESCAPE VC150 Vital Signs Monitor

Connecting intelligence and care.

Accurate and reliable vital signs data – straight to your EMR.

The CARESCAPE* VC150 vital signs monitor sends accurate patient data directly and wirelessly to your EMR system. Data can be sent whether measurements were taken during spot-check mode or continuous monitoring. You can also transfer PDF reports to a PC via a USB cable.

EMR connectivity offers clinical benefits that count. It helps support timely and confident treatment decisions based on accurate vital signs data, by eliminating the delay caused by manual data entry and helping to eliminate the risk of erroneous manual charting.[1,2]

The connectivity feature of the vital signs monitor also helps U.S. care providers attest to the Meaningful Use provisions of the Healthcare IT for Economic and Clinical health (HITECH) Act and potentially receive related incentives.

The CARESCAPE VC150 monitor, building on the legacy of DINAMAP* excellence, combines excellent measurements with proven connectivity in a durable device designed for a general-care workflow.

Reliable connectivity on proven pathways.

The CARESCAPE VC150 monitor can connect to an EMR via two reliable routes, providing flexible solutions that can scale from a small clinic or office to a multi-hospital campus:

• To any HL7® compliant EMR through the HL7 interface engine.

• To any EMR or interfacing solution complying with IHE profiles patient demographic query (PDQ) and PCD-01 transaction (HL7 V2.6, IEEE 11073 nomenclature and IHE PCD Rosetta Terminology Mapping (RTM) Content Profile).

The CARESCAPE VC150 monitor also provides backward compatibility via USB with serial-based connectivity employed on legacy GE vital signs monitors.

(1) Gearing, P. *et al.*, Connected Care Reducing Errors Through Automated Vital Signs Data Upload. *Comput Inform* Nurs 27(5), 318-23(Sep-Oct 2009).

(2) Meccariello, M. *et al.*, Vital Time Savings – Evaluating the Use of an Automated Vital Signs Documentation System on a Medical/Surgical Unit. *JHIM* 24(4), 26-51 (Fall 2010).

Other optional connectivity features include:

- LDAP access to the hospital network for clinician user ID and password data. This enables the caregiver to quickly associate themselves with a monitor which, in turn, can be automatically documented in the electronic patient record.

- Compatibility with a network time protocol (NTP) for device clock synchronization, helping ensure data accuracy.

- Alarm connectivity with central nurse stations by way of remote call systems.

- Remote serviceability through Wi-Fi to check monitor information update software, upload settings, view and export logs, upload license files and view license information, view and change preventative maintenance settings.

More about connectivity through the gateway.

There is a point at which it becomes more economical and efficient to aggregate the individual HL7 feeds from the vital signs monitors into a single outbound feed to the EMR. This is due to two factors. First, many EMR vendors charge per inbound feed, often on the order of thousands to tens of thousands of dollars. Second, each feed must be documented, configured, and tested in order for the data to be received by the EMR.

The HL7 interface engine can acquire the trended vitals directly from the monitors and output a single HL7 feed to the EMR.
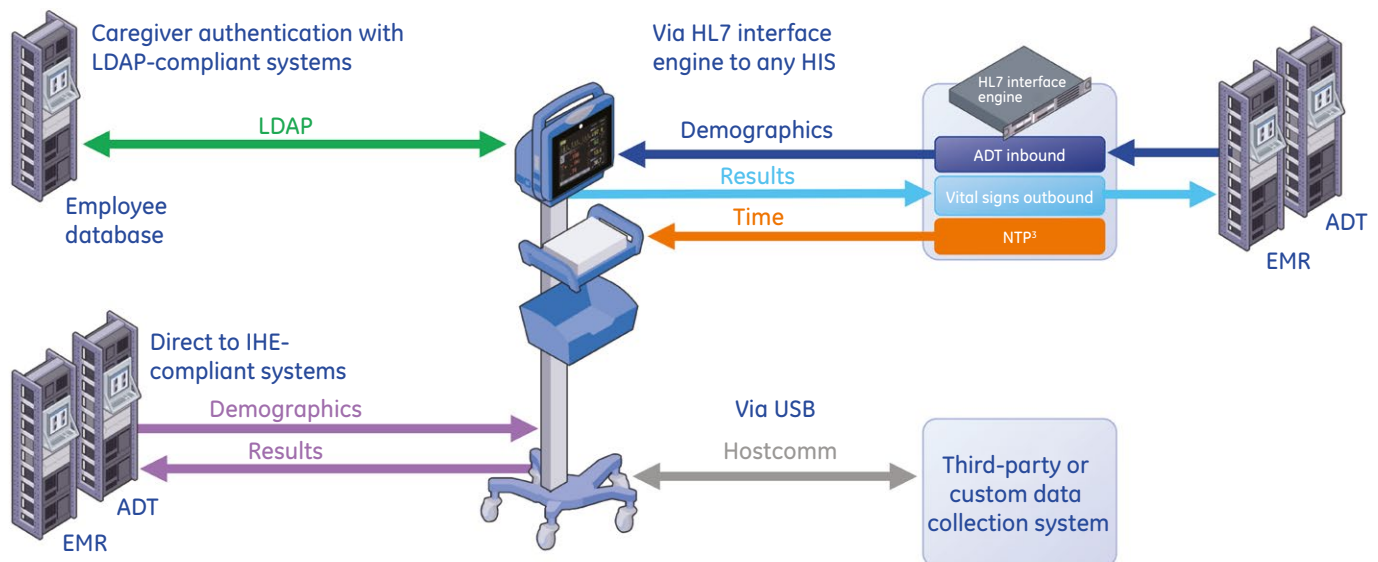
(3) NTP can also reside on an independent server.

Imagination at work

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JB26455US 12/14