

The Device Data Problem

In far too many hospitals today, data from medical devices must pass through a narrow bottleneck before it gets into the electronic medical record (EMR). The bottleneck is the process of manually transcribing and hand-keying data.

Because all the data passes through the hands of busy nurses, it is frequently delayed for hours, often until the end of the shift. Worse, errors inevitably creep in: studies have found faulty data in as many as 15% of all records. And perhaps worst of all, nurses typically spend several hours per shift on documentation, and that time is then unavailable for patient care.

The DeviceConX Solution

DeviceConX is a complete solution for collecting, managing and transmitting data from the device to the EMR. DeviceConX users report that data is available immediately, records are accurate, and the nurse's documentation workload is dramatically cut, often by as much as an hour per shift.

DeviceConX Design Principles

VENDOR NEUTRALITY

DeviceConX is vendor-neutral, meaning it can collect data from any device, regardless of manufacturer. If the device is new, iSirona can typically develop a new driver in less than 12 weeks. DeviceConX even collects data from stand-alone devices, via iSirona's Connectivity Software.

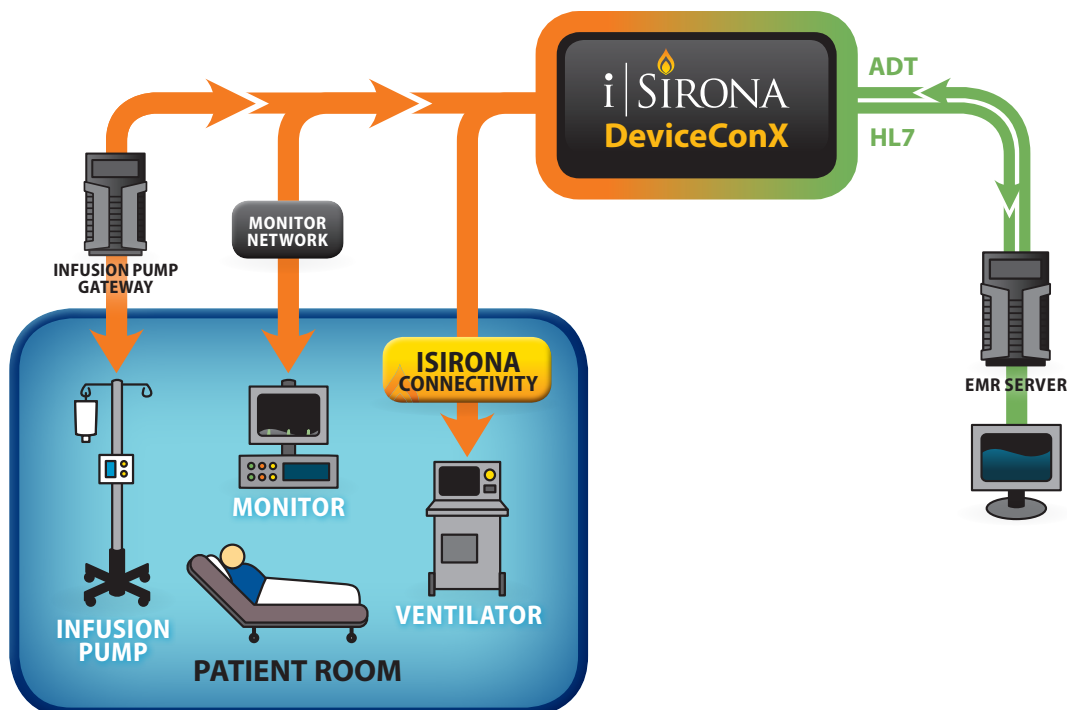
DeviceConX can deliver data to any CIS system, including Epic, MEDITECH, CPSI, Siemens, HMS and Allscripts. Best of all, it works with your existing hardware and network: no proprietary hardware is required.

FULL COVERAGE

DeviceConX collects data wherever patient care is delivered. It is equally suitable for high-acuity environments, such as intensive care, and for low-acuity environments where clinicians travel from patient to patient with mobile devices. It can be configured for use in a single hospital facility as well as scale to support multi-facility healthcare organizations with a shared database.

RAPID IMPLEMENTATION

Because DeviceConX is primarily a software solution, it can be easily and rapidly implemented. Startup times can be as short as a few weeks, and very little clinical end-user training is needed.



Data Path:

From the Device to the Medical Record

Patient Identification

DeviceConX provides multiple options for performing positive patient identification. iSirona uses a patient-specific model to ensure each device is correctly associated with the intended patient and data is documented to the correct patient.



Data Collection

To ensure that all data is collected and none is lost, iSirona's Connectivity Software queues data in local memory when the network is not available or out of range. In addition, connectivity failures are proactively reported via the system's Enterprise Management Console.



Ensured Delivery

DeviceConX ensures that data is successfully delivered by maintaining it until a positive acknowledgement is received. DeviceConX maintains a history file so transactions can be recovered in the event of data loss to systems such as the EMR.



Filtering and Data Management

DeviceConX manages and filters device data so the hospital can chart just the parameters it wants, out of what may be hundreds of parameters per device. Also, DeviceConX normalizes data so parameters are named and reported consistently, regardless of differences between various device manufacturers. In addition, it can route selected parameters to one or multiple flowsheets within the EMR.



Charting, Review and Authentication

DeviceConX populates device data to the appropriate flowsheets within the clinical system. Alternatively, using iSirona's DataAuthenticator, the clinician can review the data and make changes or notes if necessary as well as authenticate the data for entry into the EMR.

What happens when an integrated device goes offline?

Typically, clinicians are often the first to know when a device goes offline. Now, thanks to iSirona's Enterprise Management Console, IT and biomed are proactively notified.

Here's how it works: when a device goes offline, DeviceConX sends an automated, descriptive alert (via email or page) to the appropriate IT or biomed professional. That person can then log in to the Enterprise Management Console to see details and troubleshoot the connectivity issue.

In addition to troubleshooting connectivity issues, IT and biomed can use the Enterprise Management Console to manage software updates, view all the connected devices and systems, and monitor system-wide connectivity.

To learn more, please visit our web site at isirona.com