


capsule
what it takes to connect.

Capsule: IHE compliant connectivity for any medical device

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What is device connectivity?

- ▶ Device connectivity: the integration of medical devices with information systems
- ▶ Related terms:
 - Device Data Integration
 - UMDB: Universal Medical Device Bus
 - EMR: Electronic Medical Record
 - CIS: Clinical Information System
 - HCIS: Healthcare Information System
 - HIS: Hospital Information System

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Why do hospitals need device connectivity?

- ▶ Improve Nursing Workflows
- ▶ Eliminate Transcription Errors
- ▶ Maximize the EMR Investment
- ▶ Improve Patient Care and Safety



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Market Challenges

- ▶ Lack of standards for medical device data
 - HL7 adoption growing... but which HL7?
 - Proprietary protocols & customization still the norm
- ▶ HIS and EMR vendors can not keep up with:
 - Developing a comprehensive library of device interfaces
 - Maintaining and updating the library of device interfaces as software protocols change
- ▶ Device integration is not the core competency or a top priority of most device or information system vendors

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The Solution to these challenges

- ▶ Open Architecture Connectivity that:
 - Supports any medical device required now and in the future
 - Is compatible with any HIS or EMR on the market
 - Provides all parameters available from the devices
 - Includes guaranteed upgrades

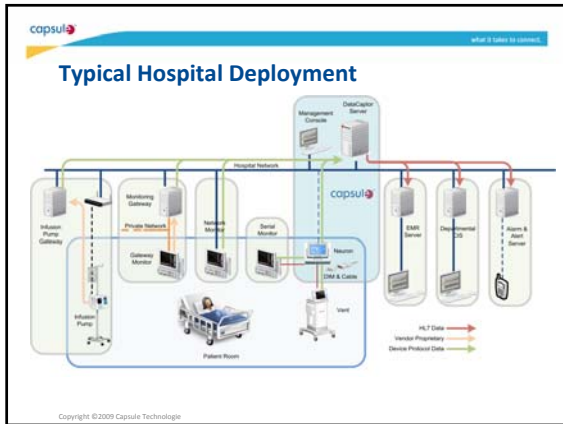
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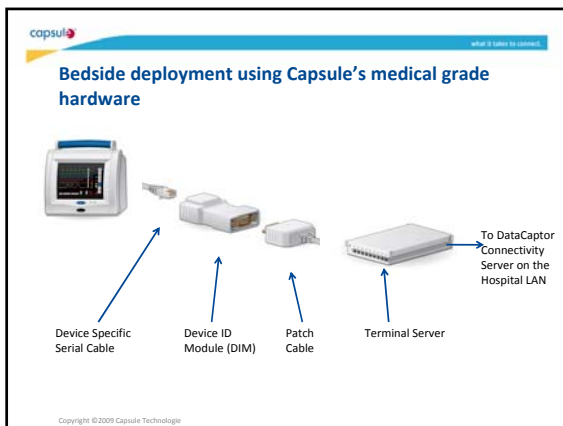
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How does Capsule's solution work?

The diagram illustrates the Capsule solution architecture. On the left, there are several medical devices (monitors, carts) connected to a central server rack. A blue line representing a network connects the server to a desktop workstation on the right. The workstation is labeled 'Hospital Workstation'. The server is labeled 'HL7 Server'. The network is labeled 'what it takes to connect.' The Capsule logo is positioned in the center of the network line.

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DataCaptor™ Server Capabilities

- DataCaptor Device Interface**
 - Implements the communication protocols for attached medical devices
- Data Filtering and Management**
 - Manages the medical device to HIS “impedance mismatch” including sampling, unit translation and variable mapping
- Data Queuing**
 - In the event of the CIS getting disconnected, DataCaptor queues the data until the CIS becomes available again
- EMR Connectivity**
 - Manages outbound connection to EMR or other HIS systems such as alarming and alerting (HL7, XML and SQL)

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Benefits for Device Vendors

- ▶ Low risk and low resource alternative to in-house interface development.
- ▶ Standards based solution that is proven to work with most CIS vendors. (IHE PCD-01, PCD-04 and HL7)
- ▶ Instant IHE compliance for supported devices.

Benefits for HIS and EMR vendors

- ▶ IHE PCD-01 & PCD-04 Profile compliant data source
- ▶ Standardized variable mapping
- ▶ Unified device interface without custom coding
- ▶ Support for all device vendors

IT Partner Applications

Medical Device Connectivity Powered by **capsule**

Automated critical care vital signs data collection. **Dräger medical**
A Dräger and Siemens Company

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Epic

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Why Capsule for device connectivity?

- Proven solution
 - Over 10 years of industry experience
 - Over 400 devices supported
 - Installed at over 350 facilities worldwide
 - Industry recognized
 - Only FDA 510(k) cleared medical grade solution
- Vendor neutral – connect any device to any HIS, EMR or alarm management systems; even add or change systems as needed
- Unmatched service & support
- Dedicated to connectivity
- Future proof

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Vendor Neutral: connect to *any* device

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Introducing Capsule's Next Generation Point of Care Connectivity Solution....

Enabled by Capsule Neuron™ and DataCaptor™ 6.0

Visit Capsule Booth #2212 for a demo and more information

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Q&A

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