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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding	91177234
Party	Plaintiff Cardinal Health 303, Inc.
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Date	06/09/2009
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What can the data look like?

Excel, MS Access, Crystal Reports or any other data management tool can be used to view the data generated by the Guardrails® CQI Event Reporter.

Alerts Resulting in Reprogramming												
Serial #	Date	Time (hrs)	Pt. Weight	Initial Programming				Subsequent Programming				Time of Event
				Drop Intended	Initial Programmed Dose	GR Limit	Amount of	Time to the Limit	Rate	Final Intended Dose		
309479	11/21/01	7:50		Insulin, 50mg / 50mL	900 mg/hr	0.00	900.00	00.0	900 mL/hr	900 mg/hr	0.10	00:00
										0.5 mcg/kg/min	0.05	00:00
										50 mcg/kg/min	0.05	00:00
										0.2 mg/kg/hr	0.05	00:00
										7.06 mcg/kg/min	0.05	00:00
										900 mg/hr	0.05	00:00
										2 mg/hr	0.05	00:00
										0.11 mg/kg/hr	0.05	00:00
										5 mcg/min	0.05	00:00
										2.87 mcg/kg/hr	0.05	00:00

Guardrails® Event (11/21/2001)

4:38 AM insulin, regular (100u / 100mL)
 Programmed Dose = 7 unit/kg/hr
Dose Above Maximum Limit:
 Maximum Limit = 0.1 unit/kg/hr
Soft Guardrail Warning:
 Response = No (Do Not Proceed)

Subsequent Programming

4:39 AM insulin, regular (100u / 100mL)
 Dose = 0.10 unit/kg/hr
 Rate = 6.8mL/hr

Why is this data valuable?

The data showing reprogramming of the infusion device will show potential medication errors that have been avoided. Instead of relying solely on "self-reported" information, hospitals now have a practical tool that captures actual events that could have caused patient harm. The Guardrails® CQI Event Reporter provides monitoring of actual error avoidance in order to improve IV medication administration practices through education and refinement of hospital guidelines.

For more information, contact your ALARIS Medical Systems Sales Consultant at 1-800-482-4822, in Canada 1-800-387-8309, Fax 1-858-458-7760, or visit our web site at www.alarismed.com



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Alaris® IV-Right Application*

Coming soon



CardinalHealth

Setting a new standard for IV medication safety

“Technology can play a vital role in preventing and detecting errors in care. The joint solution is an important and natural evolution of the application of technology to ensure patient safety.”

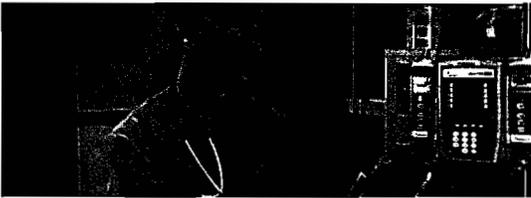
*Steve Rough, Director of Pharmacy for
University of Wisconsin Hospital and Clinics.*



Leaders in IV medication safety and bar code administration now bring you a solution to make your medication-management system even more comprehensive – and safer for your patients and clinicians.

- Automatic programming of the initial infusion
- Pharmacy work station with a real-time window to the point of care
- Electronic documentation of IV therapy

Providing a safety net for ALL medications



Step 1. Verify the right order

Clinician logs onto the McKesson Admin-Rx™ device and checks medications due to patient.



Step 2. Verify the right drug

Clinician uses Admin-Rx™ device to scan the appropriate medications.



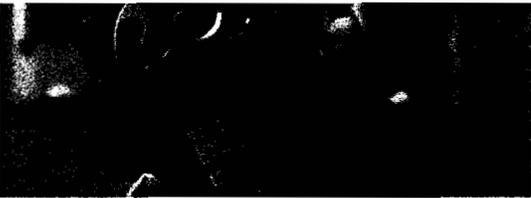
Step 3. Verify the right patient

The clinician scans the patient's ID badge.



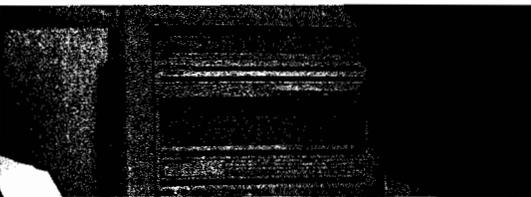
Step 4. Verify the right dose and the right time, start infusion

Programming information is wirelessly transmitted to the Alaris® System™. The nurse verifies programming and starts the infusion.



Step 5. Document infusion electronically

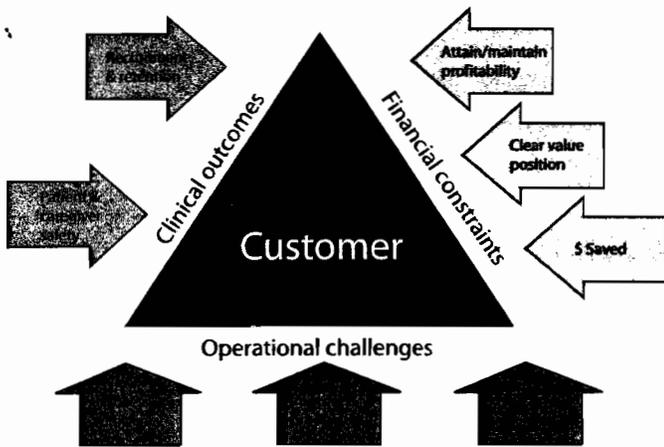
The Alaris® System returns an up-to-date infusion status to the McKesson Server, the electronic medication administration record (eMAR) updates automatically in real-time on the Admin-Rx™ device.



View window to the bedside

Pharmacists can view status of all infusions in real time, and know when infusions are due, almost completed or running outside of institution-defined limits.

Alaris® IV-Right Application



For more information, contact your Cardinal Health, Alaris® Products Sales Consultant at 1-800-482-4822, in Canada 1-800-387-8309, or visit our web site at www.cardinalhealth.com/alaris

Who is Cardinal Health?

The employees of Cardinal Health are passionately dedicated to being your performance partner for medication safety: Protecting patients and caregivers from IV medication harm in your community and worldwide. There are more than 18,000 nurses protected by the Guardrails® Suite of safety software today. As a performance partner, Cardinal Health provides you:

- Timelines that you can count on
- Measurable and actionable results: providing an immediate and measurable impact to your hospital on patient and caregiver safety
- Outcomes you will be proud to share with your community

**Cardinal Health may not make this product available for commercial sale.
**Alaris® System formerly known as the Medley® Medication Safety System.*

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Managing your infusion information system with enterprise-wide connectivity

Alaris® Gateway



The Alaris® gateway maximizes the efficiency and value of the data generated around the IV medication infusion process by providing interface capability to other hospital systems.

Improving enterprise performance

The increased use of advanced information technologies in the hospital environment promises improved access to and awareness of patient history and treatment plans at all levels of the patient care process. The skillful use of this data can provide an opportunity to improve an enterprise's clinical, operational and financial performance. In order to maximize the value of this data, however, it must be shared among multiple systems with little or no requirement for transaction-based staff interaction.



Sharing data access

The Alaris® gateway integrates with the existing hospital network via the Alaris® network using a standard wireless or Ethernet connection. The Alaris® gateway provides the necessary functionality for external systems to access data collected on Alaris® systems*. This functionality is exposed through two web services:

The **Publish/Subscribe Web Service** allows external systems to subscribe to special events that take place on the Alaris® PC point-of-care unit (Alaris® PC unit)*.

The **Request/Respond Web Service** provides external systems the necessary functionality to query the Alaris® PC unit for specific information.

Alaris® gateway interoperability

The Alaris® gateway can provide both solicited and unsolicited subscription services to a broad range of hospital applications, including Pharmacy, MAR, Clinical Information System, and other monitoring and patient tracking systems. The interfacing code required to support these information exchanges is documented in the Alaris® gateway Software Development Kit (SDK), available on request from your Cardinal Health representative.

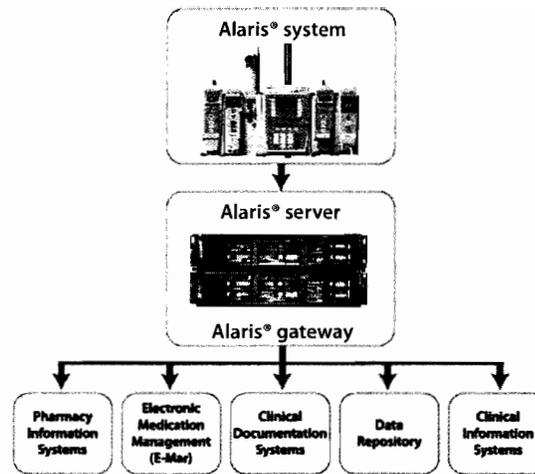
Alaris® gateway Software Development Kit

Cardinal Health can supply an SDK to third party vendors upon request. The SDK provides a blueprint for inter-server communications between the Alaris® gateway and external applications. Cardinal Health will also provide the same SDK information to hospital customers who have sufficient internal resources to write custom interfaces to various systems.

Alaris® gateway components

- **Alaris® gateway software** – package that provides access to the data elements loaded on the communications kernel server.
- **Communications socket** – Single communications connection to allow data transfer between the communications kernel server and one other third party application.
- **Additional communications sockets (Optional)** – Additional communications connection to allow data transfer between the communications kernel server and another third party application (one per socket).

For more information, contact your Cardinal Health, Alaris® Products Sales Consultant at 1.800.482.4822, or in Canada at 1.800.387.8309 or visit our website at www.cardinalhealth.com/alaris.



Integrating the Alaris® gateway

Cardinal Health will work with your internal IT staff or designated third party vendor to integrate the Alaris® gateway into your Hospital Information System.

- Cardinal Health is responsible for the Alaris® server's inbound and outbound connectivity.
- Inbound communications is specific to Patient ID.
- Outbound communications include infusion, alarms and monitoring data.
- The third party vendor (or hospital IT staff) must supply the other portion of the interface to complete the data transaction.

Your Cardinal Health representative will work with your IT and third party staff to analyze and define the requirements for integration of the Alaris® gateway with designated systems.

The Alaris® gateway requires that the standard Alaris® network package be installed.

Interface capability to external systems

- **Unsolicited subscription service to:**
 - Syringe and Pump module infusion data
 - Alarms and data associated with these alarms
 - Monitoring data
- **Solicited request for patient/device specific information:**
 - Syringe and Pump module infusion data
 - Alarms and data associated with these alarms
 - Monitoring data
- **Patient association:**
 - Ability to associate a patient with an Alaris® PC unit.

**Alaris® PC point-of-care unit and Alaris® system were formerly known as Medley® Point-of-Care Unit and Medley® System, respectively.*

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Offering a flexible and scalable approach to IV bar coding

Alaris® Auto-ID Module



The Alaris® Auto-ID module lets you incorporate bedside IV bar coding, independent of your broader bar coding or IT strategy. Designed to attach directly onto the Alaris® System, the Alaris® Auto-ID module helps simplify clinical workflow and provide additional safety at the point of care. This unique, highly scalable solution makes it easy for any hospital to gain the benefits of patient, clinician and IV drug recognition at the point of care, regardless of existing IT infrastructure.

"Once you use the Alaris® Auto-ID module, it goes really smoothly, it goes really double-check. It's also simpler, because I don't have to program and find the drug in there."

Charis Begley

Cancer Treatment Center Nurse, The Nebraska Medical Center



Alaris® Auto-ID Module

This unique bar coding device attaches directly onto our industry-leading Alaris® System, providing an additional safety net for all pump, syringe and PCA infusions. Based on years of experience developing products for the point of care, the Alaris® Auto-ID module helps streamline the clinical workflow by providing confirmation of patient, clinician and drug information via the same user interface used for programming infusions, without ever having to wait to establish a wireless connection.

Alaris® Auto-ID module, non-networked

Hospitals without a comprehensive wireless network can gain the safety benefits of IV bar coding, in addition to adding patient and clinician ID to Guardrails® CQI data captured at the point of care.



Alaris® Auto-ID module interfaced to eMAR

Using the Alaris® Server and Alaris® Gateway, hospitals can relay patient specific information to third-party eMAR systems to eliminate error-prone and time-consuming paperwork.



Alaris® Auto-ID module with eMAR and IV orders automation*

Our vision is to support the transfer of IV orders to the bedside via interfaces with third-party order management systems, enabling partially automated programming.



*Cardinal Health may not make this product available for commercial sale.

Designed around the clinical workflow

Step 1: Pharmacy enters medication order

Step 2: Clinician scans ID badge

Step 3: Clinician scans patient wristband

Step 4: Clinician scans medication

Step 5: System selects drug, concentration and verifies right patient

Step 6: Clinician starts infusion

Step 7: System relays documentation to eMAR

For more information call 800.482.4822 (800.387.8309 in Canada) or visit our website at www.cardinalhealth.com/alaris.

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Simplifying access to a wealth of IV medication data



Real-time data enabled prepared by a secure server
The data is stored in a secure server, which is then processed and distributed to the user. The data is then processed and distributed to the user. The data is then processed and distributed to the user.

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The diagram illustrates a secure server architecture. A central server is connected to various devices (laptop, tablet, smartphone) and a cloud icon. The server is labeled 'INTERPRET' and the devices are labeled 'Respond' and 'Correct'.

Facilitating rapid cycle improvements at the point of care
The data is stored in a secure server, which is then processed and distributed to the user. The data is then processed and distributed to the user. The data is then processed and distributed to the user.

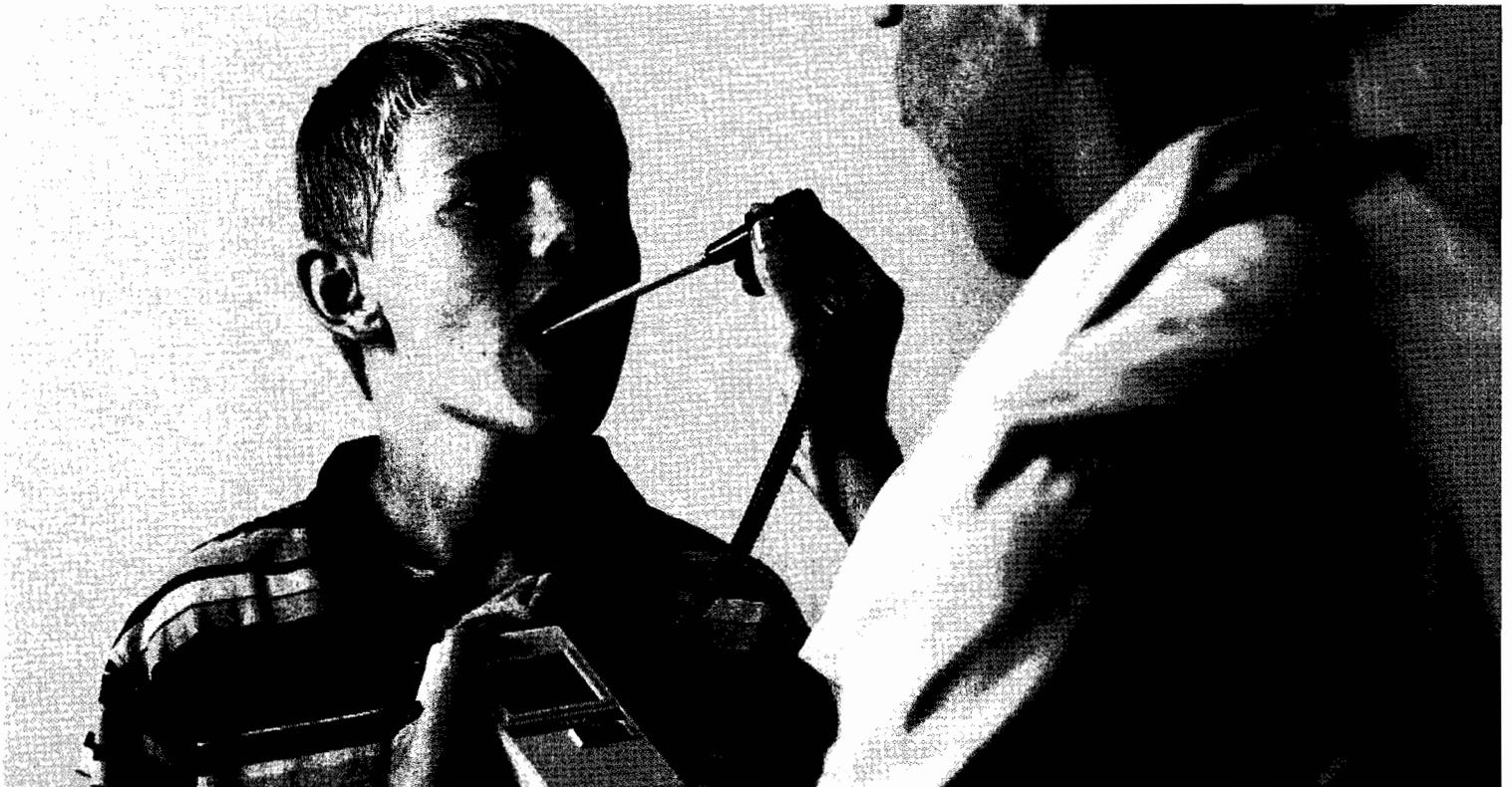
Securely linking IV systems
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Thermometer system developed for patient safety

Alaris® Products

Turbo Temp® Thermometer



CardinalHealth