

Healthcare

Medication Tracking Solution

Achieve CLMA with RFID-Based Technology

Solution
Ready
Package



ADVANTECH

Enabling an Intelligent Planet



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Enhance CLMA Efficiency with **RFID** Tracking Technology

Closed-Loop Medication Administration (**CLMA**)



Advantech's intelligent medication solution, known as medTRx, enables every hospital to achieve closed-loop medication administration (CLMA). medTRx comprises two medical carts, one dispensing cabinet, and a medication management system.

Integrated with RFID-based tracking technology, medTRx provides a hospital-wide interface for medicine/patient information exchanges, streamlining medication inventory and dispensing, as well as bin exchanges at hospital pharmacies, nursing stations, and patient wards.

Solution Offerings



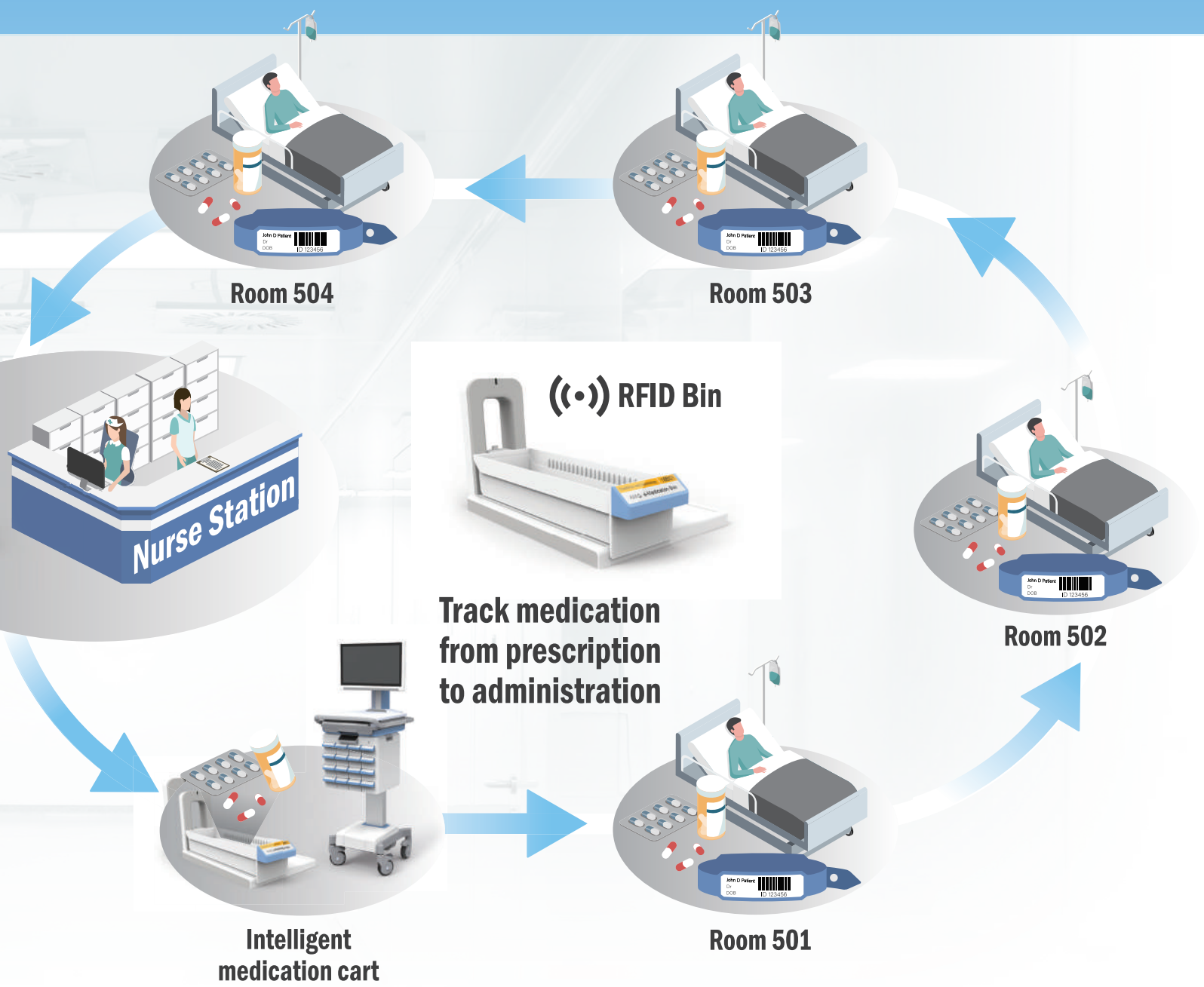
AMiS-830
General UD cart



AMiS-850
Intelligent medication cart



AMiS-870
Automated dispensing cabinet



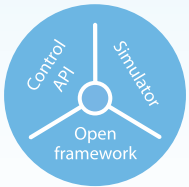
Key Features



RFID-based medication bins with individual locking mechanism



Supports centralized, decentralized, and hybrid medication management



Medication API and demo program can be integrated with EMRs



Offers secure access and control of all medications

Enabling Medication Safety With medTRx

medTRx_Lite



Lite Medicine cabinet control intermediary

- Default application to manage the medication box and cabinets
- Built-in Lite control software for the AMiS cart touchscreen user interface.

medTRx_Basic



Basic Integrated workflow

- Basic client and server structure supports management of multiple devices
- Users can electronically assign bins using the computer keyboard to input data
- Streamlines the medication administration workflow and reduces medication errors

medTRx_Pro



Pro Comprehensive platform for CLMA

- Fully integrated with hospital information systems
- Enables HL7 integration and utilizes the ADT feed to link real-time patient information to individual bins
- Supports nurse work shift durations
- All-in-one solution for hospital CLMA management

medTRx Software Solution

	Function	Lite	Basic	Pro
Operation	RFID bin setting (assign patient/assign medication)	●	●	● Automatically integrated with HIS
	Control UI	●	●	●
	Scan barcode to access the system		●	●
Integration	Basic access log		●	●
	Centralized database for management			●
	HL7 interfaces (HIS/ADT)			●
	Discharge/transfer integration		●	●
	Assign bins with barcodes to patients	●	●	●
System Client/Server	Client application only	●		
	Client/Server architecture		●	●

Intelligent Medication Dispensing Made Easy



STAGE	HIMSS Analytics EMRAM EMR Adoption Model Cumulative Capabilities
7	Complete EMR; External HIE; Data Analytics, Governance, Disaster Recovery, Privacy and Security
6	Technology Enabled Medication, Blood Products, and Human Milk Administration; Risk Reporting; Full CDS
5	Physician documentation using structured templates; Intrusion/Device Protection
4	CPOE with CDS; Nursing and Allied Health Documentation; Basic Business Continuity

According to the HIMSS Analytics' Electronic Medical Record Adoption Model (EMRAM), technology-enabled medication dispensing is a key Stage 6 requirement for enabling the adoption and utilization of electronic medical records (EMRs) in hospitals. Advantech's intelligent medication administration solution streamlines medication inventory and dispensing at hospital pharmacies, nursing stations, and patient wards.

By utilizing RFID technology and an individual bin locking mechanism, the solution reduces errors and ensures secure medication exchanges during the dispensing process. Moreover, to support all existing medication management processes and ensure the correct medication is provided to the correct patient, Advantech's intelligent medication dispensing solution is compatible with centralized, decentralized, and hybrid medication distribution models.



RFID-Based Medication Bin Setting Station

AMiS-810

The RFID-based medication bin setting station uses RFID scanning to match each medication bin with the correct medication and patient for automated medication bin management. With this station, RFID tags are encoded with the patient ID and medication information and then affixed to a specific medication bin for subsequent administration.



General UD Cart

AMiS-830

A computerized unit dose (UD) cart with integrated touch computer and barcode reader is used to transfer RFID-tagged medication bins from the pharmacy to the nursing station or patient wards. The interchangeable design of the electronic medication boxes allows them to be easily exchanged at the pharmacy, saving time.



Intelligent Medication Cart

AMiS-850

Equipped with an electronic medication box, the AMiS-850 cart is ideal for patient medication administration in hospital wards. With the individual bin locking mechanism, nurses can use the barcode reader to scan patient wristbands and unlock the correct medication bin for increased medication control and safety. This cart optimizes patient care by providing a mobile point-of-care workstation seamlessly integrated with a first-class medication cart.



Automated Dispensing Cabinet

AMiS-870

The AMiS-870 automated dispensing cabinet improves medication management by capturing medication data to streamline dispensing and reduce inventory holding costs. By enabling inventory tracking and automated data collection, this cabinet offers clinicians enhanced control over the medication dispensing process while freeing up more time for patient care.

Join Our Developer Community



If you are interested in becoming an Advantech medication dispensing solution partner or developer, please contact us at amis.sales@advantech.com.

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