Streamlining Medication Administration

Omnicell’s Mobile Medication System*, based on the Intel® Core™2 Duo processor, provides safe and secure transportation of medications from the automated medication dispensing cabinet to the patient’s bedside.

Enhancing many aspects of medication distribution, automated dispensing cabinets can improve patient safety, increase control over drug inventory, and simplify billing processes, among other benefits. “As automated dispensing cabinets have become the cornerstone of many hospital medication distribution processes, new workflow challenges have arisen,” says Bobbi Jamriska, senior product manager at Omnicell. Often nurses may have to wait for access to the medication dispensing cabinet to review and remove their patients’ medications, resulting in a pressured environment.

The Omnicell Mobile Medication System* is a fully integrated solution that streamlines administrative processes related to medication administration, providing nurses more time for patient care. The solution features Omnicell’s Anywhere RN* software and a wireless mobile medication cart based on the Intel® Core™2 Duo processor. The medical-grade system allows clinicians to select patient medications quickly and securely from any location at any time, thus reducing transaction time at the cabinet. This integrated system gives nurses an easy-to-use, intuitive solution that simplifies tedious processes related to medication management while ensuring secure transport of medications right up to the patient’s bedside.

Highly Integrated

Clinicians can increase workflow efficiencies and reduce the risk of medication errors by using a fully integrated, transportable solution that supports bar code medication administration (BCMA) at the bedside. Omnicell automated dispensing cabinets and mobile medication systems aid in ensuring that the five rights of medication administration are verified: right medication, right dose, right time, right route, and right patient.

Versatility and Mobility

Omnicell’s wireless mobile medication solution serves as a workstation for clinicians and adds the functionality of a point-of-care medication cart, improving clinician efficiency and ultimately enhancing patient safety. The small and highly maneuverable design makes it easy to roll the mobile medication system to the patient’s bedside and run BCMA applications. Equipped with hot swappable lithium-ion batteries and a power-efficient Intel® processor, the mobile medication system runs up to 18 hours on a full charge (two batteries) and may be recharged while in use. This ensures that the nurse can focus on the patient without worrying about running out of power at a critical time. The mobile medication system sends both on-screen and e-mail alerts when the long-lasting rechargeable battery runs low on power.

Built to Perform

The all-in-one computer, based on the Intel Core 2 Duo processor, delivers the computing performance needed for demanding clinical and medical imaging applications. Healthcare providers can run any hospital information systems’
Table 1. Features and Benefits of Intel® Active Management Technology

<table>
<thead>
<tr>
<th>Capabilities</th>
<th>Results</th>
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<tbody>
<tr>
<td>Remote Power State Control</td>
<td>Securely and reliably wake systems for software update and patching. Remotely reboot hung systems.</td>
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<tr>
<td>Remotely diagnose and repair using IDE-R, and SOL</td>
<td>Remotely diagnose hardware and software issues and fix most software issues using remote boot to a diagnostic image at the management console.</td>
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<tr>
<td>Hardware-based security features</td>
<td>Protect the system utilizing system defense filters and network isolation. Monitor execution of critical security agents for continued system protection.</td>
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<td>Out-of-band discovery and inventory reports</td>
<td>Remotely access hardware and software inventory information stored in protected non-volatile memory in all system/OS power/health states.</td>
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<tr>
<td>Events and Alerts</td>
<td>Use Events and Alerts functionality to detect system tampering by sending a message to the remote console if anybody opens up the device.</td>
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- **Improved Availability**

An integral part of Omnicell’s wireless mobile medication system is Intel® Active Management Technology (Intel® AMT),¹ which helps to increase system uptime and save on costly technical service calls. This technology enables IT personnel to quickly fix many types of system problems remotely, which increases system availability and clinical efficiency. In addition, Intel AMT allows IT administrators to manage systems when they are turned off, or when the operating system is unresponsive, by making use of the manageability capabilities built into Intel® silicon components. Table 1 lists some of the capabilities of Intel AMT and how they can benefit IT administrators.

**Streamlined Processes**

Omnicell’s integrated solution shortens time at the automated dispensing cabinet and streamlines the processes related to medication administration for nurses. Nurse productivity and efficiency are improved in the medication administration process by:

- Eliminating waiting at the cabinet, saving time and frustration, thereby increasing nurse satisfaction.
- Enabling quick retrieval of scheduled and “as-needed” medications, because they are queued up at the cabinet in response to nurses’ remote requests.
- Reducing trips back to the cabinet to record medication waste, which can now be done remotely.
- Providing an efficient workflow option of a single trip to the cabinet to remove medications for multiple patients at one time from the automated dispensing cabinet and securing them in patient-specific drawers on the mobile medication system.
- Transporting the medications safely and securely to the patient’s bedside for administration.
- Eliminating the manual process of labeling drawers, as patient-specific drawers are automatically assigned via software.

To learn more about medication and supply automation solutions from Omnicell, please visit [www.omnicell.com](http://www.omnicell.com).

To learn more about solutions for medical embedded computing solutions from Intel, please visit [www.intel.com/go/medical](http://www.intel.com/go/medical).

¹ Intel® Active Management Technology (Intel® AMT) requires the computer system to have an Intel AMT-enabled chipset, network hardware, and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating, or powered off. For more information, see [www.intel.com/technology/platform-technology/intel-amt/](http://www.intel.com/technology/platform-technology/intel-amt/).

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