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4 Ways a Secure Cloud Platform May Simplify ADC Fleet Management for IT Teams^{1, 2}

From electronic health records (EHRs) and telemedicine to advanced imaging systems and predictive artificial intelligence (AI), digital technologies are deeply embedded in modern healthcare delivery. As a result, IT professionals play an increasingly critical role in ensuring that these systems operate reliably, securely, and in harmony with one another.

However, as healthcare environments grow more complex, so can the burden on IT teams. Managing a growing ecosystem of interconnected technologies may strain resources, especially when systems are difficult to maintain or lack integration. We believe simplifying infrastructure and improving manageability is essential to maintaining operational efficiency and supporting high-quality patient care.

Cloud-based platforms have become a proven approach for reducing IT complexity while enhancing scalability, data accessibility, and security. Automated Dispensing Cabinets (ADCs) – used in approximately 97% of U.S. hospitals³ – are a vital component of the medication distribution process, yet historically they have functioned as largely siloed systems, adding to IT management challenges.

Modern ADC innovation, such as Omnicell's Titan XT Automated Dispensing System powered by Omnicell's OmniSphere secure cloud platform, is designed to transform how IT teams manage these critical devices. By leveraging cloud technology, ADCs have the ability to deliver the same operational advantages typically seen in other healthcare IT systems.

Here are four ways a secure cloud platform can potentially simplify ADC fleet management for IT teams:

1

Faster, More Efficient Software Updates

Traditional ADC environments often require manual updates, which may create operational disruptions and increase the risk of inconsistencies across devices. A cloud-enabled platform is designed to allow software updates and patches to be deployed automatically and simultaneously across the entire fleet.



This streamlined approach is expected to not only reduce maintenance effort but also to ensure systems remain current with the latest features, performance improvements, and security enhancements – without burdening IT staff.

2

Centralized Monitoring and Real-Time Visibility

Cloud connectivity aims to provide IT teams with a centralized dashboard for monitoring device performance, health, and operational metrics across all ADCs within a health system.

This real-time visibility should enable faster identification of issues, improved troubleshooting, and more proactive maintenance. It also is engineered to support regulatory compliance efforts by offering clearer insights into system performance and audit readiness.



3

Scalable Infrastructure to Support Growth

Healthcare organizations frequently expand through new facilities, service lines, or patient volume growth. A cloud-based ADC platform is designed to simplify scaling by allowing new devices to be integrated quickly and managed within the same unified environment.

This flexibility is intended to reduce the complexity traditionally associated with infrastructure expansion, and to enable IT teams to support organizational growth without significantly increasing operational overhead.



By reducing the complexity of ADC maintenance and management, secure cloud platforms are designed to empower IT departments to operate more efficiently.

Built-In Security and Compliance Support

Security remains a top priority in healthcare IT. Cloud-enabled ADC platforms are engineered to meet robust security frameworks that align with industry standards and regulatory requirements, such as HITRUST.

By centralizing security controls and automating updates, cloud platforms are meant to help ensure that ADC systems stay protected against emerging threats, which should reduce risk while easing the burden on IT teams.

By reducing the complexity of ADC maintenance and management, secure cloud platforms are designed to empower IT departments to operate more efficiently. Instead of spending valuable time on routine upkeep and troubleshooting, IT teams should be able to focus on higher-value initiatives such as driving innovation and improving patient care.

We believe that solutions like the Omnicell Titan XT Automated Dispensing System demonstrate how cloud technology can modernize even the most essential clinical infrastructure – built to bring greater simplicity, control, and confidence to healthcare IT operations.



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1. Omnicell Titan XT and OmniSphere are under development and not yet generally available to Omnicell customers. Omnicell makes no commitment with regard to this technology or its development, features or availability, and it remains subject to change at Omnicell's discretion.
2. Discussion of potential benefits or expected outcomes does not imply, and Omnicell does not guarantee, that any specific impact or improvement will be achieved. Customer outcomes are dependent upon many different factors and individual results may vary.
3. ASHP national survey of pharmacy practice in hospital settings: Dispensing and administration--2014. Am J Health-System Pharm 2015; 72: 1119-37. doi: 10.2146/ajhp150032