

# MAKE THE MOST OF GARTNER'S TECH TRENDS HEALTHCARE

Within the healthcare industry, there's a tremendous opportunity to utilize technology to improve patient safety, streamline clinical workflow and deliver patient-centered care. Take a look at some of the tech trends Gartner has identified for 2016, and get Zebra's viewpoint on how they will impact the future of healthcare.

## GARTNER'S TREND: DEVICE MESH

### WHAT IS IT?

The device mesh brings together traditional desktop-centered computing, mobile computing, the IoT and cloud computing in a common, connected framework of endpoints and supporting services.

### ZEBRA'S POINT OF VIEW

When it comes to patient safety, ensuring correct patient identification is critical. With the device mesh, healthcare organizations can digitally link patients to their medication, lab results and providers. This real-time flow of information reduces the potential for identification errors, eliminates waste and rework, and improves the overall patient experience throughout the entire care continuum.

### USE-CASE SCENARIO

When a nurse enters a patient's room, a sensor on the patient's ID bracelet automatically links to her wireless mobile computing device and immediately informs the nurse of the latest patient care information such as new lab results, medication changes, or even the last time the patient left the bed. The nurse benefits from this real-time information flow and is able to confidently provide the appropriate patient care for that moment in time—all without disturbing the patient.



## GARTNER'S TREND: INFORMATION OF EVERYTHING

### WHAT IS IT?

Massive amounts of data from traditional systems, cloud sources and the IoT create an overload that must be addressed by more advanced analytics integrated into the fabric of applications, business processes and routine user activities.

### ZEBRA'S POINT OF VIEW

The Information of Everything can provide real-time information to and from anywhere, eliminating the need for outdated phones and pagers and consolidating data to a single dedicated device. It allows patient care teams to streamline communication, enhance decision making and bring more care to the bedside. Additionally, location information can be gathered on patients, staff and medical equipment, which leads to better clinical workflow and a reduction in misplaced or hard to locate supplies.

### USE-CASE SCENARIO

Just moments ago, the FDA announced a product recall for a commonly used item in your hospital. Since your facility has created Unique Device Identifier (UDI) labels on your medical devices, the charge nurse will receive a real-time alert notification about this and can quickly take the necessary steps to accurately locate the product and also ensure that it is not used during a patient procedure.



GARTNER'S TREND:

# ADAPTIVE SECURITY ARCHITECTURE

## WHAT IS IT?

Adaptive security architectures recognize that traditional access control and perimeter defense are insufficient, and we need a full range of tools. Security must start with application design, extend through robust application testing, and follow through with runtime application self-protection for operational systems.

### ▶ ZEBRA'S POINT OF VIEW

Unsecured data comes with a huge price tag in fines and potential litigation due to patient privacy breaches. Using the Information of Everything and adaptive security architecture, the activity on each device in the mesh can be observed and scrutinized to ensure that the staff throughout the organization are following patient privacy guidelines. Conversely, these devices can be monitored for outside threats.

### USE-CASE SCENARIO

Your hospital is seeking to create a single Healthcare Mobile computing platform for the purpose of achieving improved staff productivity and collaboration effectiveness. As part of this platform, it will be necessary to integrate data sources from numerous electronic systems, middleware software packages and medical device products. Voice, text and data security cannot be compromised, and hospital administrators have anxiety with this initiative. With smart planning and by selecting mobile computing devices that are purposely designed for the healthcare environment, your organization is able to execute this initiative flawlessly.



“ The new healthcare environment is very patient-centric and promises to deliver real-time, analytically driven patient care insights to the patient bedside and the caregiver.”

**CHRIS SULLIVAN**

Global Healthcare Leader, Zebra Technologies

## IMPROVING THE QUALITY AND EFFICIENCY OF PATIENT CARE

Need help implementing tomorrow's tech trends today? Zebra's innovative solutions help healthcare organizations achieve an unprecedented level of efficiency, as well improve quality of care. Learn more at [zebra.com/healthcare](http://zebra.com/healthcare).



### ENHANCED CARE THROUGH CLINICAL ACCURACY

Life-threatening mistakes can happen due to wrong medication delivery, wrong diagnosis and inaccurate patient identification. Zebra enables positive patient, specimen and medication identity throughout every point of care, from admissions to discharge. Patient safety improves, waste and rework is reduced and patients' rights are ensured.



### IMPROVED STAFF WORKFLOW AND PRODUCTIVITY

Outdated phones, pagers and scanners slow communications, disrupt data transmission and leave organizations vulnerable to security breaches. Zebra solutions enable real-time communication methods among staff, allowing them more efficient ways to collaborate and focus on patient care, as well as ensure HIPPA compliance.



### MAXIMIZED OPERATIONAL EFFICIENCIES

Real-time visibility and location information for staff, patients and supplies helps healthcare organizations achieve a level of unprecedented efficiency, reduce waste and lower costs. Zebra solutions can enable expense tracking by procedure, medical device tracking and workflow optimization.



**Get the full report.** [Click to access](#) Gartner's full report, *Top 10 Strategic Technology Trends for 2016: At a Glance.*