

Solution overview

Transform healthcare

HP Digital Hospital Solution



Digital hospitals integrate technologies to improve hospitals. By uniting people, processes, and technology, you get a more productive, secure, and safe environment for patients and staff.

Review the situation

MayLing is ready for discharge. Her discharge plan—generated by the digital hospital's massive database and rules-based decision-making intelligence—is available to her doctor, who reviews it on his tablet, makes a few changes, and certifies it.

The system notifies transportation to be ready, uploads after-care instructions and patient education modules onto MayLing's bedside device, and informs her primary care doctor—through her smart device—including all records, test results, and the after-care plan.

The system notifies MayLing's nurse that the discharge plan is confirmed and advises transportation to pick her up at 10:45 a.m. She goes to MayLing's room, reviews the entire plan with her on the bedside device. Once MayLing's questions are answered and entered into the system, it transmits the plan, education modules, and follow-up appointment reminders to MayLing's smartphone. Her husband is notified through his desktop computer that she will be at the entrance at 11 a.m.

The system sends an e-prescription to her pharmacy and calls transportation. Her husband's car pulls up to the entrance identified by smart signage, picks up MayLing, and they head home. All of this is possible in a digital hospital.

Populations are aging and patient numbers are increasing, resulting in a dramatic rise in demand for healthcare services. At the same time, costs are escalating, personnel are increasingly difficult to retain, budgets are limited, and patient safety and quality of care are subjected to continuous improvement. Patient and staff satisfaction requires regular attention.

With healthcare rapidly moving toward patient-centric care, where patients are viewed as customers—your organization needs to solve these problems while doing more with less. The answer: efficiency and productivity. By streamlining and integrating information, you enable your medical, ancillary, and support staff to access the right information, at the right time, in the right way—all with enhanced security, greater satisfaction, and improved quality.

Read how technology brings new opportunities

To tackle these challenges, healthcare organizations are turning to technology convergence and integration to bring new opportunities for automating hospital processes, increasing efficiency, reducing costs, improving quality of care, and increasing satisfaction. This is a digital hospital.

Gain flexibility to fit your needs

With the HP Digital Hospital Solution, advanced technologies—critical mobile medical devices, intelligent information systems, facility control systems, and communication tools—are integrated to improve hospital operations and processes. People, processes, and technology are united into a coherent whole—creating a more productive, secure, and safe environment.

A digital hospital is a real-time, pervasive information management environment. Whether built from the ground up or implemented with a modular stepped approach within established facilities, the HP Digital Hospital Solution makes technology integral to healthcare delivery.

Connect it all

The HP Digital Hospital integration engine connects every aspect of the hospital. It links systems so staff members have simple, fast access—with enhanced security features—to all of the information they need, when and where they need it. Productivity is improved, medical equipment is better utilized, and treatment times are shortened, resulting in better patient outcomes.

In short, it delivers technology innovation so your healthcare organization can be more efficient, reduce costs, and support process improvements. With a return on investment (ROI) methodology and studies specifically tailored to a digital hospital, HP is in a position to clearly establish the potential returns.

Unify everything

HP Digital Hospital Solution's robust, highly available integration platform unifies communications and information flow across internal and external subsystems. It delivers:

- Better and more responsive patient care and experience

“I now have greater freedom to deliver on core services and spend more time with my patients, which I use to spend filling out forms, making endless phone calls, chasing relevant patient information and test results, and tracking down people.”

Aud Olsen, Head Nurse, St. Olav's Hospital

- Cost reductions through efficiency and reduced administration requirements
- Reduced operational risk and true integration with the wider environment
- Unified information and communications technology across internal and external systems

HP Digital Hospital Solution integrates everything using:

- An interoperable software layer across a common IP net that eliminates silos
- Facilities process automation
- Built-in intelligence

Get support for your digital journey

To help your organization on its digital hospital journey, HP offers a framework of hardware, software, services, solutions, consulting services, and operational services to lay the foundation.

Figure 1. HP Digital Hospital Solution—the real-time healthcare system

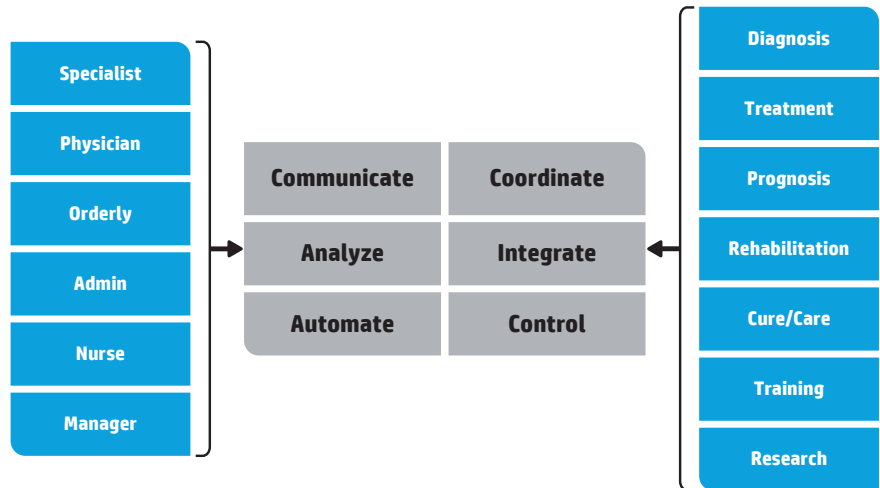
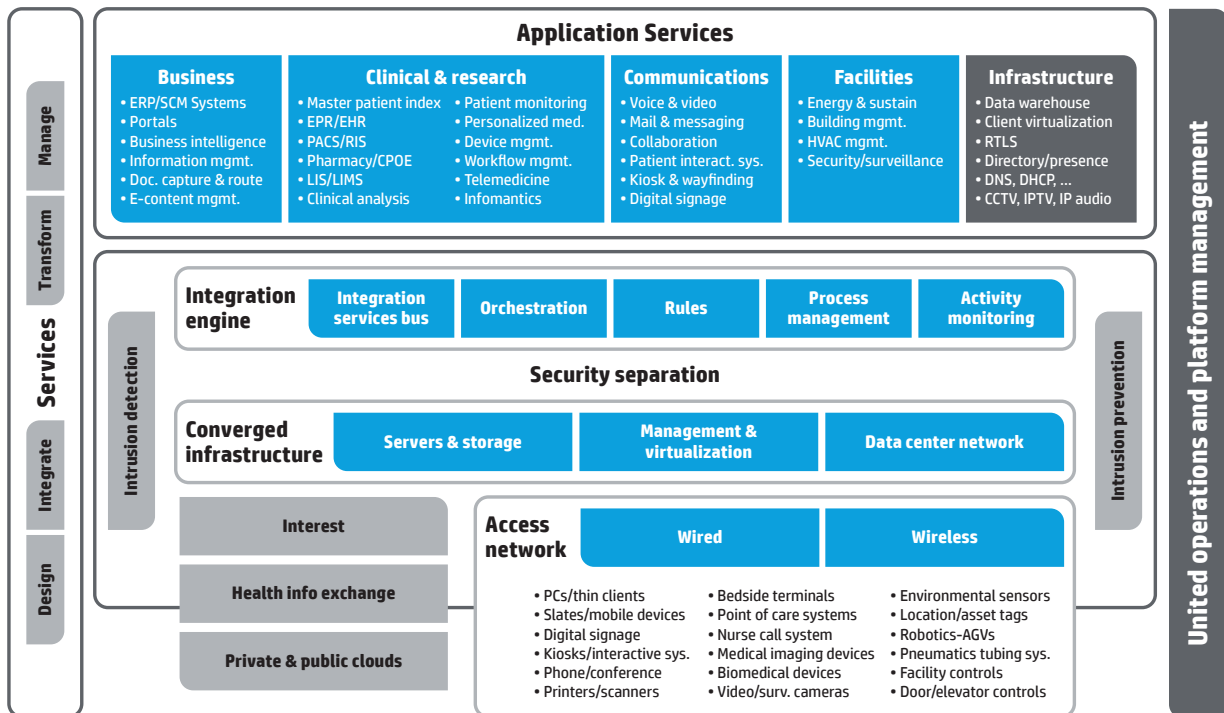


Figure 2. A fully integrated organization using HP Digital Hospital Solution



In a digital hospital, you can use technology more imaginatively to orchestrate processes, enhance safety, improve quality of care, and enable customized healthcare solutions.

Get the expertise you need

HP has more than 45 years of experience in the health and life sciences industry around the world, supported by over 10,000 health and life sciences IT professionals who work to reduce inefficiencies, increase business performance, and solve challenging issues. More than 250 credentialed clinical professionals apply their expertise in helping our clients.

We deliver better, more innovative outcomes at lower costs to our clients with our market-leading industry solutions, including HP Digital Hospital. Today, according to industry analysts, HP is the leading provider of information technology and services to the health and life science industry.

The HP Digital Hospital Solution spans from handheld mobile devices to back-end infrastructure and expert services to bring out their full value. Depending on your needs, your digital hospital can draw from any of the following HP Digital Hospital Solution framework components:

- Digital hospital foundation provides core technology components on which an HP Digital Hospital Solution is built—including digital hospital networking mobility design and planning, mission-critical, real-time networking infrastructure, hospital wireless networking, location-based services and sensors, medical device integration services, and facility integration services. All of this is combined with our applications modernization and security services, which help your digital hospital become as innovative as possible
- Business strategy and planning deliver the vision of HP Digital Hospital Solution through proven methodologies and world-class technical and business expertise. This includes focused solutions for program assessment, architecture and design, implementation planning, strategy, Digital Hospital Vision Labs and Centers of Excellence, and ROI analysis with business case development.
- Operational integration transforms the way healthcare is delivered with services that encompass hospital messaging and alert management, medical team assembly, asset and patient tracking, document and image integration, management solutions, clinical workflow optimization, and electronic medical record hosting and integration.
- Health professional productivity addresses medical professional—including lab requisition and review, digital pen and forms automation, nurse call integration and call management, vital signs capture and recording, and automated ancillary service request delivery.

Benefit from real-time healthcare information

Ultimately, HP Digital Hospital Solution moves your organization from a world dominated by handwritten notes and data entry to a real-time health information environment—where information is no longer a bottleneck in your healthcare processes but a driving force in its success. This transformation helps you achieve some of today's most important goals—improving patient care, increasing staff efficiency, and controlling operational costs. Information management and analytics services from HP can deliver robust and sophisticated models and decision support capabilities to support the operational and clinical goals of your digital hospital.

It's time to take a closer look at an HP Digital Hospital Solution strategy for your organization. HP is ideally positioned to help you begin your journey.

Achieve success

Helping you achieve reduced complexity of health IT, our solution improves operational efficiencies and care quality, and increases innovation. Client results include:

- A 30% increase in outpatient capacity and a 20% decline in average length of stay
- A 6 % year-over-year productivity improvement and a 95% reduction in walk-in clinic visits
- A 72% reduction in emergency room visits with annual savings of \$30 million USD

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