Enable providers, empower patients

Quick, easy, and secure access to the right information and applications—anytime, anywhere—can make all the difference to providers and patients alike. At HP, we help healthcare communities simplify communication, collaboration, and access to relevant data and services that improve quality, reduce costs, and expand access to care.

The best possible care

In the fast-moving, ever-evolving world of healthcare, the goal is unchanging: enable providers by improving their care delivery capabilities and empower patients to participate in their own healthcare journeys. With access to the right data and services at the right time, patients, clinicians, administrators, IT, executives, and policy-makers can all work smarter, and work together.

HP built-for-healthcare solutions leverage the power of enterprise-class devices, software, services, and partner solutions to simplify secure communication, collaboration, and access to relevant data and care services at the point of care. With HP, providers are better able to deliver cost-efficient, high-quality, patient-centered care, empower patients, and advance population health policies and initiatives.

- **Care delivery** – Better care delivery everywhere
  Enable healthcare professionals with optimal clinical workflows by improving secure access, capture, and sharing of relevant data at the point of care, wherever that point of care might be. With HP technology, you can facilitate collaboration by care teams across organizational boundaries, streamline operations, and improve the experience for everyone involved.

- **Patient engagement** – Empowered patients
  Connect patients to the people, information, educational experiences, and tools they need to understand and improve their health and participate in treatment decisions.

- **Population health** – Health for all
  Help improve the well-being of underserved and remote populations through education, awareness, and better access to preventive and clinical care. HP uses advanced mobility, connectivity, and cloud-based solutions to support local, regional, and national healthcare programs.
Why HP solutions for healthcare?

Top-performing core technology platform
You can rely on HP’s industry-leading portfolio and proven, commercial-strength core technology platform, advanced engineering, and intensive product testing—with up to 115,000 hours on Elite product designs—to deliver the performance and reliability you need day in and day out whether you are bedside, on rounds, in the office, or beyond.

Engineered for healthcare
Optimize productivity with HP purpose-built healthcare solutions designed with input from healthcare professionals. HP adapts computing, printing and imaging solutions to meet specific healthcare requirements and operate seamlessly in acute care, ambulatory, and field environments.

Complete solutions
Reduce cost, complexity, and time-to-implement using integrated, end-to-end, and custom solutions from HP and its ecosystem of leading healthcare and independent solution vendors (ISVs), such as OneView Healthcare and Savance Health, providing specialized regional and solution experience. HP healthcare solutions work with leading clinical applications for EMR, PACS, patient management, bed management, patient engagement, patient check-in, telehealth, remote patient monitoring, and more.

World-class security that doesn’t get in the way of care
Simplify authorized access at the point of care, while helping assist in meeting HIPAA regulations using HP’s multi-layer security approach. Today’s complex threats require a complex defense. As the #1-rated company in identifying security vulnerabilities and threats, HP has the expertise, solutions, and services to help healthcare organizations meet regulatory requirements and protect data, devices, and identities.

Low cost-of-ownership
Do more with less by leveraging HP innovation, advanced engineering, and expertise in optimizing applications, assets infrastructure, and management. HP LaserJet printers with Original HP Toner cartridges featuring HP JetIntelligence, for example, result in leaner, smarter, faster ways to print. Today’s fast-paced, budget-conscious healthcare organizations benefit with printers that are up to 40% faster, 40% smaller and produce up to 33% more prints per cartridge—while consuming as much as 53% less energy. HP Managed Print Services, can also help slash medical document life cycle costs across the entire health system.

2. Based on HP internal testing of predecessor devices completed 1/2015 or published information and subject to device settings. Actual results may vary. Faster refers to First Page Out Time (FPOT). For energy efficiency, the HP M252 is 15%, HP M277 is 16% and the HP M553 is 53% lower versus predecessor. For details see hp.com/go/LJclaims.
3. Based on cartridge yields for HP 131A and 507A compared with HP 201X and 508X Original HP toner cartridges. For more information, see hp.com/go/learnaboutsupplies.
Care Delivery

Improve provider access wherever the point of care may be with collaborative, personalized, and flexible technology built for the way providers work whether in the acute patient environment, supporting post-acute and long-term care, or providing remote consults via telemedicine.
Better care delivery everywhere

Simplify secure communication, collaboration, and access to and the capture of data at the point of care, wherever that may be.

**Personalized solutions, optimized workflows**
Enable everyone on the team—doctors, nurses, finance, operations, and administrative staff—to work faster and smarter with HP tablets, PCs, thin clients, digital displays, and print technologies. Support for EMR solutions including Cerner, Epic, and Meditech, running in Android and Windows user environments across the product line make it easy to personalize solutions that optimize workflow and productivity.

- **On-rounds mobility** — Equip clinicians to maintain personalized patient interactions while quickly and accurately accessing, capturing, and recording critical data at the point of care with the HP ElitePad 1000 Healthcare Tablet. Support for touch, voice, keyboard, and pen input and secure-grip chassis with optional ergonomic hand or shoulder strap fits the task at hand and personal work style. On-board security features and an optional security jacket with integrated certified smart card or fingerprint reader and single sign on (SSO) software eliminates the need for multiple logins and long passwords. Full disk encryption adds another layer of protection on top of standard HP client device, BIOS, and Trusted Platform Module (TPM) security. Dust and water resistant, the rugged HP ElitePad 1000 Healthcare Tablet undergoes military standard drop testing. An optional integrated scanner and 2D barcode reader helps validate patients and catalog and administer medications to reduce the risk of error.

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**Table 1. Acute and long-term care delivery solutions—the right equipment for every job**

<table>
<thead>
<tr>
<th>Care delivery</th>
<th>Patient engagement</th>
<th>Population health</th>
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<table>
<thead>
<tr>
<th>Admissions</th>
<th>On Rounds</th>
<th>Bedside</th>
<th>Nursing Station</th>
<th>Radiology</th>
<th>Pharmacy</th>
<th>Discharge &amp; Beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP TouchSmart AiOs</td>
<td>HP Healthcare Tablets</td>
<td>HP Elite x2 PCs</td>
<td>HP TouchSmart AiOs</td>
<td>Third-Party Medical Imaging Displays</td>
<td>Secure Prescription Print</td>
<td>HP Tablets</td>
</tr>
<tr>
<td>HP Retail Tablets</td>
<td>HP ePrint</td>
<td>Point-of-Care Analytics</td>
<td>HP Mini Desktop PCs</td>
<td>HP Digital Signage</td>
<td>HP Desktops</td>
<td>Secure Prescription Print</td>
</tr>
<tr>
<td>Wristband Printing</td>
<td>HP Thin Clients</td>
<td>HP Displays</td>
<td>HP Display</td>
<td>HP Officejet MFPs</td>
<td>Telehealth Delivery</td>
<td>Remote Patient Monitoring &amp; Engagement</td>
</tr>
</tbody>
</table>

| HP ElitePad 1000 Healthcare Tablet. Reflecting the input of real clinicians, this tablet is light, tough, easy-to-hold, and easy-to-clean. Built-in security features streamline workflow and integrated scanner helps to increase accuracy.

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4. Covered under HP limited warranty for IP 54 dust and water ingress. MIL STD 810G testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. MIL STD test results are not a guarantee of future performance under these test conditions. An optional HP Accidental Damage Protection Care Pack is required for accidental drop damage.
5. HP Total Test Process drop testing is not a guarantee of future performance under these test conditions.
6. Select configurations.
200 million patient lives are touched by HP technology every year

- **Fast, accurate charting and data entry** – Staff needing a full-sized, premium keyboard to type notes and enter data at the point of care can choose from a wide choice of portable HP notebooks, including 2-in-1 hybrid HP Elite x2 notebooks with full-sized keyboards that detach for a highly mobile standalone tablet.

- **Follow-me workspace and secure roaming** - Caregivers can now access their personal virtual desktops from the cloud. By eliminating the need for a local hard drive and other moving parts, HP Thin Clients reduce cost and risk and are ideal in clinical environments where silent, fan-free operation is a plus. Greatly simplify IT management and enhance security with data and client software that are centrally managed versus on the device. Enable secure roaming with a “follow-me” workspace where NFC-badged staff can suspend and close a session in one location and then open the session and pick up work right where they left off in another location.

- **Mobile printing** – The HP ePrint Enterprise solution sits behind the firewall and works with virtually any device or printer. Further protect information security with print tracking and management using HP ePrint Enterprise services.

*High-performance productivity in clinical workspaces*

Empower teams with solutions that fit the work and the space available. HP compute, print, and medical imaging solutions combined with accessories make it easy to configure the right solution across the patient care cycle.

- **Nursing coordination** – Give hardworking staff the clarity of high definition and wide-angle viewing with accurate tap, touch, and swipe productivity. The HP Pavilion TouchSmart All-in-One PC powers an extra-large 23-inch diagonal (58.4 cm) touch-enabled HD display from a compact footprint. HP multifunction printers (MFP) provide scan and print convenience on a desktop. HP Digital Signage running Savance Health patient tracking solution puts dynamic information on large touch-enabled displays, so everyone on the team can see the latest status and coordinate tasks. HP tablets give nursing staff on-the-go flexibility and workflow efficiency.

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7. HP ePrint Enterprise requires HP ePrint Enterprise server software. App-based option requires Internet- and email-capable BlackBerry® smartphone iOS 4.2 or newer, iOS devices running iOS 5.0 or later, or Android™ devices running version 2.2 or later, with separately purchased wireless Internet service and the HP ePrint Enterprise app. Email-based option requires any email-capable device and authorized email address. Solution works with Postscript, PCL5/6, PCL3, and PCL3GUI printers (HP and non-HP).

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**HP Thin Client with Single Sign-On (SSO).**
Mobilize the clinical workspace to improve staff productivity.

**HP Elite x2 1011.** Both a tablet and an Ultrabook™, this single device with HP Advanced Wireless Docking Station delivers the versatility, lasting power and robust security needed for on-the-go medical professionals.

**HP TouchSmart All-in-One PC.** Add to nursing stations to enable fluid workflow coordination, or to busy admissions areas to help streamline check-in.
• **Patient-friendly admissions** – Ensure fast, accurate capture of patient information with HP tablet, PC, display, and print solutions—including patient-driven check-in kiosks and digital signage for way-finding and communications. The HP Officejet Enterprise Color Flow MFP scans, prints and produces laminated, barcoded patient wristbands in one machine. Digitize paper-based information and file the editable electronic text directly to the file of your choice, including SharePoint®, email, fax, HP Enterprise Content Management Service, or network folders. Affordable HP color on wristbands, charts, treatment plans, labels, and documents helps alert caregivers to important health information. The HP ElitePad 1000 Retail Tablet integrates with multiple third-party payment devices to streamline patient payment. Use it with optional hand or shoulder strap as a mobile payment system. Or mount it on a wall or pillar for self-payment services.

• **PACS** – HP Z Workstations, widely used in PACS environments around the world, store CT, MRI, and PET imaging results, and can import and export data from both external and internal image archive systems. Select HP Z Workstations are Registered FDA Class I Medical Image Storage Device under 12 CFR 892.2010.1. Pair with one of our partner medical-grade diagnostic imaging displays from Barco or Eizo—featuring enhanced visualization with uniform brightness and DICOM calibration. HP also packs powerful compute and graphics performance into mobile workstations for use beyond the bench.

• **Fast, security-enhanced prescriptions** – Help limit fraud and diversion, prevent errors, enhance medication safety, and increase time- and cost-efficiencies across the supply chain. Replace handwritten processes with secure Computerized Physician Order Entry (CPOE) on the HP ElitePad 1000 Healthcare Tablet and automated medication management and electronic alerts. Add another level of assurance with HP Secure Prescription Print authenticated prescriptions. Features include a printed copy-void pantograph that reveals the word “COPY” when photocopied, customizable micro-print font, and anti-counterfeiting warning box to validate originals.

• **Smooth transitions at discharge and beyond** – Put patients on the path to wellness and help decrease readmissions by reducing the discharge paper shuffle. HP Pro Slate 10EE Healthcare tablets come with a 10.1-inch diagonal screen, as well as micro-HDMI port for easy plug-in to a large HP touchscreen monitor for patient consultations. Built-in wireless connectivity and security make it easy to aggregate relevant digital information for each patient, communicate with the hospital pharmacy, and notify administration when consultations are completed. As part of your readmission avoidance program, send patients home with a loaner HP Pro Slate 10EE Healthcare tablet to maintain their independence throughout their post-discharge care journey. HP LaserJet printers make customized, on-demand discharge packet printing practical, with affordable, high-quality color that helps convey critical information about instructions and medications to help prevent complications.

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**HP Officejet Enterprise Color Flow MFP.** Eliminate the cost and complexity of specialized equipment. Scan, print, and produce patient wristbands or admissions documents with one machine.

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**HP Z Workstation with Zvr Reality Display.** Trusted by major PACS OEMs, the HP Z Workstation delivers the performance and reliability required for high-demand PACS environments. Bring 3D models of complex biological systems to life with the HP Zvr Reality Display.
Empower patients to participate in their own healthcare journeys through active engagement using user-friendly, enterprise-class devices and always-connected solutions that educate and involve them at every step along the way.
More informed, involved patients

Speed recovery, improve patient satisfaction and help reduce readmission by empowering patients to be active participants in their own healthcare journeys. Innovative, user-friendly, and always-connected HP patient engagement solutions help inform, educate, and motivate every step of the way.

Improving the patient experience
Waiting room use of a durable HP tablet with seamless connectivity and long battery life streamlines patient-driven check-in, helps to minimize paper forms and eliminates duplicate data entry. Incorporate HP Healthcare in a Box Patient Check-in Kiosks running Savance Health Patient Sign-In to reduce wait time and improve overall patient satisfaction.

Empower patients to have more control over their in-patient experience with a fully integrated patient engagement solution such as OneView Healthcare—providing access to interactive care and engagement software in the cloud. Patients can also rely on bedside-mounted HP touch monitors powered by ultra-slim PCs to learn about their condition and treatment. An HP Desktop Mini PC with touchscreen display can be tailored to deliver pre- and post-operative education, as well as communications services, including messaging, scheduling, and multilingual support.

Immersive learning
Experience is a powerful teacher. Educators and medical experts using the new HP Sprout creation station with dual screen displays can collaborate easily and apply powerful technologies, including instant capture, direct content manipulation, and 3D projection, to create immersive experiences for patients that inform and help change lifestyle behavior.

Engaging everywhere
Extend patient education into ambulatory settings, the home, and community with rugged HP Pro Slate 10EE Healthcare tablets for check-in, engagement, data-sharing and consumer-friendly access to cloud-based Android apps and tools. Bring learning to community and waiting areas in rehabilitation, long-term care, and retail health facilities with HP Digital Signage, display walls, and touch-screen kiosks with interactive education programs running on HP PCs.

Chronic disease management
HP partners with telehealth providers to enable authorized access to remote patient vital sign monitoring, communication, and patient data through their cloud-based web portal that meets HIPAA technical requirements, using an HP Pro Slate 10EE Healthcare tablet or HP notebook as the wireless mobile gateway.

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8. IP52 testing is not a guarantee of future performance under these test conditions.
9. HP Total Test Process drop test results are not a guarantee of future performance under these test conditions. Drop and other accidental damage requires an optional HP Accidental Damage Protection Care Pack.

**Table 2.** Patient engagement solutions to help keep the patient at the center of care

<table>
<thead>
<tr>
<th>Admissions and In-patient</th>
<th>Education</th>
<th>Chronic Disease Management</th>
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</thead>
<tbody>
<tr>
<td>OneView Healthcare Solutions</td>
<td>Patient Education Programs</td>
<td>HP Pro Slate 10EE Healthcare Tablet</td>
</tr>
</tbody>
</table>

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**HP Sprout.** Create the ultimate learning environment with instant capture, direct content manipulation, and 3D projection that engages, educates, and motivates.

**HP Desktop Mini PC with HD Display.** Compact design is perfect for cramped hospital rooms. Mount display on articulating arm for easy in-bed access. Tackle patient data privacy concerns with a complete set of built-in security features.

**HP Pro Slate 10EE Healthcare Tablet.** Designed to pass IP52 testing for dust and moisture resistance and drops of up to 32 inches (82cm), the HP Pro Slate 10EE Healthcare Tablet is tough enough, intuitive enough, and affordable enough for both in-hospital and post-discharge patient engagement.
Population health

Helping to make healthcare more accountable, inclusive and responsive by facilitating collaborative solutions that focus on disease management and prevention, as well as the promotion of health and wellness.
Health for all

HP helps improve health initiatives by equipping organizations with robust, flexible technologies that enable them to offer the types of programs and services needed to serve populations large and small.

Care management
Care managers rely on HP Healthcare tablets and mobile workstations for the dependability, durability, battery life, and connectivity they need to coordinate care in the field or office. Fingertip access to real-time data and communications helps care managers work with patients and their caregivers to prevent acute episodes that lead to the ER, hospitalization, or readmission.

ACO integration
HP partners with clinical workflow integration software partners such as OnBase™ by Hyland to help accountable care organizations (ACOs) simplify cross-organization communication and collaboration. Secure access to cloud-based dashboards facilitates reporting and closes the feedback loop for providers, program sponsors, and patients.

PCMH outreach
For ACOs with Patient Centered Medical Home (PCMH) accreditation, the HP Exstream for Healthcare multi-channel communication management solution helps automate patient outreach by automating personalized messaging via email, SMS text, or web portal.

Clinical studies
HP Z workstations running powerful analytics programs help researchers turn vast amounts of data in EMR, PACS, and caregiver, insurer, and government databases into evidence-based insights to improve prevention, well-being, and chronic care.

Remote populations
Nonprofit and public health organizations need ways to do more with less for underserved communities and remote populations. Cloud-enabled HP Telehealth Services such as the HP Telehealth Service Center with multiple video conference options and 27-inch diagonal (68.6 cm) HP Z27x DreamColor Displays help deliver preventive education and consultations to people in remote locations. A built-in dashboard facilitates data capture and analysis in the field. Some HP Telehealth Service Centers are housed in shipping containers so they can be easily transported by air, rail, or land. HP tablets, notebooks, and PCs come with crisp displays and integrated speakers, webcam, and dual microphones for video collaboration and consults over distance.

Table 2. HP solutions for population health—helping to keep communities healthy both locally and globally

<table>
<thead>
<tr>
<th>Health “Anywhere”</th>
<th>Healthcare Analytics</th>
<th>Remote Care</th>
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<tbody>
<tr>
<td>Exstream</td>
<td>HP Displays</td>
<td>Telehealth Service Centers</td>
</tr>
<tr>
<td>Hyland Software Automation</td>
<td>Mobile workstations</td>
<td>Field-based delivery</td>
</tr>
<tr>
<td>Disease management and wellness programs</td>
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</tbody>
</table>

**HP Z27x DreamColor Display.** Video conference in remote locations with a 10-bit color-accurate display complete with support for up to 1.07 billion colors for enhanced visual perception.

**HP Z Book with DreamColor Monitor.** Get powerful compute and graphics performance packed into mobile packages to handle demanding work on-the-move and in the field.
A partner you can rely on

In healthcare, downtime simply isn’t an option. That’s why you can rely on HP. For more than 50 years, HP has been working to help make healthcare more accountable, inclusive, and responsive. Today, we leverage the latest advances in mobility, cloud, and security to help enable providers and empower patients with intuitive solutions that securely access relevant data, applications, and services to deliver better care and patient experience.

Top global technology brand
HP is a recognized leader in computing, imaging and printing technology and services around the world. The depth and breadth of the HP healthcare portfolio, backed by a full suite of flexible HP support services with global reach, make it easy for both small practices and big health systems to get everything they need from a single source.

Partnering to solve critical industry needs
HP partners with leaders in healthcare and technology to help reduce healthcare costs, risk, and complexity, including: Epic, Cerner, Imprivata, HealthCast, Caradigm, Savance Health, Allscripts, Oneview Healthcare, EIZO, Barco, Narayana Health, Medicity, and many others.

A smarter approach to security
The world relies on HP for a smarter, more proactive approach to security. As healthcare organizations seek to manage the risks that arise from a growing number of devices and applications accessed over the network and from the cloud, HP helps with holistic approaches that encompass compliance and audit, policy, risk and threat, training and awareness, and a technical architecture. HP’s multilayer protection spans hardware-based encryption, various methods of user authentication, and centralized user authentication and device management, including the ability to monitor, manage, lock and wipe devices remotely. HP secure printing solutions extend protection to data in transit and hard-copy form.

A smarter approach to IT management
HP web- and cloud-based IT management solutions help healthcare providers reduce cost, risk and complexity. HP Touchpoint Manager, for example, enables health systems to manage all of their all client devices—PCs, tablets, and smartphones from various manufacturers, running Android, iOS, and Windows operating systems—with one software tool. The ability to centrally monitor devices and support users remotely, with proactive alerts, enables IT to anticipate and quickly solve issues and significantly reduces operational effort and expenses.

Expert life cycle services
Make the most of current assets, transition to next-generation platforms, and augment staff with skills and resources to meet aggressive timelines. HP comprehensive hardware, software, financial, and support services meet the needs of large and small healthcare organizations across the life cycle and across heterogeneous environments. Wherever you may be, HP and its certified service partners provide setup, repair, replacement, user support in 160 countries.

Advancing the standard of care
Going forward, HP remains committed to continued investment in healthcare innovations, solutions, services and partnerships to advance the objectives of providers, patients, and policy makers. Together, we can create a future in which caregivers are empowered, patients are engaged, and nonprofit organizations and governments are equipped to provide the best possible care and improve health everywhere.

Learn more at
hp.com/go/healthcare