



# ACCELERATING COLLABORATIVE HEALTHCARE WITH EMC MOBILE HEALTH SOLUTIONS

Telemedicine. Remote patient monitoring. Videoconferencing. Aging-in-Place. Today's healthcare organizations are investing in new mobile solutions and technologies to improve clinical workflows, increase provider-patient touch points for early intervention, and provide timely access to protected health information.

The promise of mobile health moves the patient care delivery model beyond hospital walls, out of the physician office, directly to the patient for improved communication and self-care. With healthcare reform underway to reduce the cost per patient, telehealth services are also being deployed to extend care coverage, lower readmission rates, and promote preventative healthcare.

Using intelligent handheld mobile devices, clinicians can quickly view test results from radiology and pathology, e-prescribe, enter vital signs, capture charges, and remotely monitor patients. No longer constrained by bedside monitors, workstation terminals or computers on wheels, mHealth can enhance bi-directional communication, chronic disease management, and the quality of care beyond the hospital firewall.

EMC PERSPECTIVE

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EMC's portfolio of mobile health solutions provide best-in-class hardware, software, solutions, and services to move forward your connected health strategy today—and to support mHealth innovations of tomorrow.

mHealth is also being embraced by mobile phone users as they track personal health indicators, receive appointment and medication alerts, participate in wellness programs, and create their own mobile personal health record. Yet, as care networks expand and more personally-owned devices are brought into the care setting, so too is the amount of data being generated by body sensors, medical kiosks, and home health metrics--and how to best incorporate this data in the patient medical record.

Healthcare IT is at the center of this mobile health transformation. Healthcare organizations must consider both the opportunities and challenges needed to develop their enterprise-wide mobility strategy in concert with changing reimbursement models. To do this, they will need an agile IT infrastructure to support the unique demands of mobile device management, wireless infrastructure, mobile application deployment, procurement, security, and PHI requirements.

## IT INFRASTRUCTURE FOR MOBILE HEALTH

With over 80% of practicing physicians using mobile devices and an ever-growing field of medical applications for tablets and smartphones, EMC is helping healthcare organizations support the demands of mobile computing, ensuring caregivers can securely access patient data anytime and anywhere, leading to increased efficiency and better patient care.

Whether your organization is initiating a mobile health pilot, enhancing your desktop virtualization environment, or is building cloud-based mHealth services, EMC and our partners can help transform your mobile health strategy. We provide hospitals, Integrated Delivery Networks (IDNs), and physician practices of all sizes with a flexible, scalable, end-to-end solution to meet your unique mobile health requirements for performance, availability, security, and ease of management.

EMC's portfolio of mobile health solutions provide best-in-class hardware, software, solutions, and services to move forward your connected health strategy today—and to support mHealth innovations of tomorrow. We work with industry-leading mobile and desktop virtualization application partners, systems integrators, and service providers to integrate, test, and certify EMC infrastructure with partner applications for enhanced clinical workflow and provider productivity.

With the expected growth of mobile health data generated each year, you may also be exploring cloud computing solutions with a service provider or building a services catalog within your delivery network to become the "IT Service Provider of Choice." EMC cloud-based systems and "as a Service offerings" can provide platform-independent access to mobile health applications to minimize the existing limitations of a legacy-based approach to patient information sharing. We can help you formulate and build your cloud computing strategy, paying only for the gigabytes used.

## "ALWAYS ON" CLINICAL CARE

To enable safer patient care, physicians need the ability to log-on from any device, anywhere and get the same desktop experience or "follow-me desktop." Point-of-care desktops is a priority for healthcare organizations as patient care information and applications need to be immediately accessible and available to caregivers even in the event of site failures or outages.

Although desktop virtualization may have been on your roadmap for some time, it's no simple task to implement. Our VDI offerings are secure, enabling you to easily comply with mandated procedures for data and access with SSL-encrypted connection between clients and virtual desktops, and by removing data from end points so it can be stored in your data center. EMC Virtual Desktop Solutions with VMware allow users to quickly provision desktops or update services from a central location, optimize

storage utilization rates to avoid disruptions from log-in storms, and provision storage automatically, reducing the resources required to manage your desktop environment.

Healthcare organizations can leverage the AlwaysOn Point of Care solution offered by VMware and VCE which combines ecosystem products and services to help meet requirements for availability, security, elastic scaling, rapid and automated provisioning, high capacity, and low latency with no single point of failure. VMware View modernizes desktops and applications by moving them into the cloud and delivering them as a highly available managed service. From the end-user's perspective, View makes it possible to work from virtually any location using any qualified device to access clinical desktops - PCs, thin clients, zero clients, iPads, and other tablets.

AlwaysOn Point of Care desktops can also be hosted on a Vblock platform, pre-configured infrastructure platforms sized to support specific workloads. Designed to run on-premise or in a hosted cloud facility, the integrated stack reduces integration and testing time to speed time-to-deployment. Scalability and performance are designed into each Vblock platform, so adding more desktops is simplified.

Users can easily connect to virtual desktops and applications via the Inprivata OneSign single sign-on from the access point all the way through to their EMR application. The solution incorporates Inprivata OneSign to enable single sign-on, one-touch roaming, and secure walk-away capabilities, greatly reducing the risk of data loss while increasing physician and caregiver productivity. Desktop agents can continuously look up the next working instance without disrupting workflow during a failure by configuring and linking instances of virtual appliances at multiple sites with fault tolerance.

Leveraging EMC products for reliable, high performance infrastructure, the VCE Vblock platform uses site-to-site replication to provide data redundancy and reduced recovery times. Asynchronous replication is used with NFS datastores. And EMC storage platforms have the flexibility to support a variety of replication models, including synchronous or asynchronous block-based replication as well as with EMC Recoverpoint.

## **DRIVE YOUR MOBILE HEALTH STRATEGY: EMC CONSULTING**

A comprehensive mobile health strategy considers both the innovation and "game changers" needed to transform care, drive new revenue, and position your organization for the future. The EMC Consulting Telehealth Strategy Service enables your organization to build a scalable, open IT platform to interchange images, video, and data from multiple formats and source systems. The platform connects the physician to the patient over distance and through the use of both video and audio technologies.

EMC Consulting End-User Computing Optimization for Health Sciences provides health IT organizations with a strategic roadmap for the development of mobile infrastructures that support clinicians as well as traditional back office functions such as billing and provider partners. Leveraging the VMware AlwaysOn Point of Care solution, EMC Consulting also helps your organization transform clinical desktop into stateless appliances and enable non-stop, secure service availability using single sign-on.

## TAKE THE NEXT STEP

Leverage EMC and our partners to move forward your mobile health strategy. Clinicians across your care network need immediate, secure access to patient information anytime, anywhere to make informed patient-care decisions. With our mHealth solutions, you gain:

- Reliable, highly-available, and secure IT infrastructure to provide rapid access to patient information and applications required by clinicians on any device, anywhere—anytime.
- Unbounded clinical desktop mobility and increased efficiencies through higher asset utilization and virtualization via automation of processes and workflows.
- Non-stop availability of PHI with "tap and go" authorized access for increased caregiver productivity and improved patient care experience.

Transformed Virtual Desktop Environment with integrated and tested solutions with EMC Mobile Health partners that save time and cost—and lower TCO over the solution lifetime.

## CONTACT US

To learn more about how EMC products, services, and solutions can help transform your healthcare IT, contact your local representative or authorized reseller—or visit us at [www.EMC.com](http://www.EMC.com).

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