



**Hewlett Packard
Enterprise**

HPE Mobile Workspace for Healthcare

Innovative technology for a quickly responsive hospital
work environment



The healthcare system in flux – and hospital-IT is right in the middle of it

Hospitals today are facing growing competition. IT is one of the major factors in the provision of customized technologies and services which determine whether a hospital will prevail over its competitors and differentiate itself accordingly. Services based on the customers' needs and wants are not the only factor. The ability of the hospital IT area to adapt existing services rapidly, respond quickly to problems and, where appropriate, to introduce new services are also key. Agility, efficiency, and profitability are central ingredients for success.

For high-quality services to be efficiently and economically provided, infrastructures and specialists from different disciplines need to be well coordinated. The continuous development of medicine and healthcare on the one hand, and the constant optimization of administrative and organizational processes on the other hand, require suitable tools to address increasingly complex everyday work. Information forms the foundation for the provision of services in medicine, while safe and easy access is critical to success. Moreover, with modern information and communication systems, the cooperation between different disciplines can be significantly improved so that the necessary information is quickly, easily, and consistently available.

New Challenges for IT

The often outdated and cumbersome IT environments complicate hospital IT's job of implementing the expectations and wishes of the various departments and at the same time comply with the required conditions, standards, and schedules. What is needed are new integrated solutions that enable mobile data acquisition and information retrieval, optimally support administration and work processes, and thus increase service delivery efficiency. Administrative recording of patient admissions or location and station-independent access to patient information at the hospital everyday work environment and – compliance guidelines permitting – when accessing the home office for preparation and following up for treatments or consultations by specialists and caregivers: Centralized data management and a more secure, mobile access are the key challenges here. The successful introduction of mobile processes in clinics and hospitals definitely depends on the implemented IT infrastructure.

Gaps in the concept

In drafting the IT strategy, two very basic requirements must be reconciled: The need for agility and flexibility as part of high technology and quality requirements of users and departments on the one hand, and the IT department's desire for maximum standardization due to major cost and operational aspects on the other hand. In an environment where quality and speed are key requirements, classic virtualization concepts such as Virtual Desktop Infrastructure (VDI) hit their limits. Requests for tailor-made handling of different user requirements and high demands on computing and graphics performance for the everyday hospital work environment cannot be met satisfactorily. The result is lack of user acceptance and inefficiencies. HPE Mobile Workspace for healthcare closes this gap.





HP ProLiant m700: 4x

AMD Opteron™ X2150 APU,
1.5 GHz
Integrated GPU AMD Radeon™ graphics card in the HD 8000 series
8 GB DDR3 SODIMM memory
32 or 64 GB
Solid-state memory (iSSD)
Integrated network card: dual port 1GbE



HP ProLiant m710p: 1x

Intel™ E3-1284Lv4,
2.9GHz (3.8GHz Turbo)
Integrated Intel Iris Pro™ graphics card 6300
32 GB DDR3
SODIMM memory
120, 240, 480 or 960 GB
Solid-state memory
Integrated network card:
dual port 10GbE
<69 watts power consumption



HPE Moonshot-Chassis:

- up to 180 Ps
- up to 45 powerful workstations
- up to 2,200 application users

HPE Mobile Workspace closes this gap

Hosted Desktop Infrastructure:

Dedicated graphics and computing performance without virtualization

The HP Mobile Workspace solution, based on HP Moonshot technology, has an entirely new approach in the provision of user desktops from a data center.

Each user gets their own PC in the data center. Without virtualization. 1:1.

Where users in traditional VDI environments share physical servers and virtual resources and therefore have to accept losses in performance, the HDI solution, with its system-on-chip concept, provides a dedicated graphics and performance service for each user that is 100% comparable with a traditional PC workstation, and does not require additional virtualization technology or the associated complexity (no hypervisor layer). Nevertheless, HDI offers the same advantages as VDI in terms of cost, management, and security.

Users benefit from consistent performance and service quality for both high-resolution images (X-ray, MRI) as well as all types of information and communications applications. Therefore, HDI closes the service gap of classic virtualization solutions and at the same time seamlessly integrates into existing back-end infrastructures based on VDI. Due to the XenDesktop foundation, all clients can still be centrally managed regardless of the technology used.

Mobile Workspace XenApp: Solution for the future

By using a server card that is optimized for desktop and application virtualization, existing or planned Citrix XenApp environments can be displayed within the same server infrastructure. The HP Moonshot for Citrix XenApp solution provides quick and reliable (secure) access to a variety of applications and published desktops and guarantees graphics performance of the highest quality. By centralizing desktop and application management in a data center, access to data can be secured, the risk of information loss can be reduced, real-time support can be given to user collaboration, applications can be consolidated in a single architecture, and the integration of mobile devices can be accelerated.

Technology makes the difference

Compared to traditional rack server infrastructures, the HPE Moonshot architecture offers significant advantages in operating costs (TCO) since space and power consumption per user can be greatly reduced. The combination of cost savings and scalability, paired with the advantages of the high graphics performance of workload-optimized cartridges from the Mobile Workspace portfolio, make it possible to provide a wide range of applications and desktops to a large number of users.

HPE Moonshot represents a quantum leap in infrastructure design that provides hospitals and clinics with the necessary speed, scalability, and specialization to redesign their IT environment.

Mix & Match: A flexible system covering widely varied user needs

The HP Mobile Workspace portfolio enables you to have any number of different cartridges in the same Moonshot chassis and to configure the system optimally to your specific needs.

A convincing solution – even for specialist doctors and nurses

With a new server platform, the revolutionary Moonshot technology, HPE has laid the foundation for successful, customized support of diverse user needs within a standardized server system. This innovative technology enables efficient delivery of different user environments with a cost-effective server infrastructure that scales to virtually any application, so that productivity software, hospital information system (HIS), electronic patient dossier (EPD), picture archiving, communication system (PACS) and complete desktops can be provided. It guarantees excellent quality as well as the necessary speed and efficiency in addressing the challenges of the everyday hospital work environment. Moreover, HPE Moonshot technology provides the ideal basis for implementing a comprehensive mobility strategy and flexible and agile fulfilment of future requirements from the technical departments.

More time for the essentials

The HPE Mobile Workspace solution gives all users, including medical and nursing staff with high demands on computing and graphics performance, a first-class user experience, a solid base for maximum productivity, and thus more time for what really matters: patient care.

Simplicity, agility, and continuity in operation

The HPE Mobile Workspace solution seamlessly integrates with existing desktop and virtualization solutions. By centralizing management of the RZ-centralized desktops and applications, maintenance without downtime and flexible access from different workstations and devices, continuity in operation is guaranteed, complexity reduced, and agility improved.

High level of security and compliance

By centralizing desktops, data and applications in a data center and by encrypting data connections, high security standards, data security, and data protection are ensured at all times. The implementation of compliance guidelines and regulatory requirements can be consistently ensured through comprehensive access solutions, transparent activity logs, and smartcard integration.

Low total cost of ownership (TCO)

A lot more can be achieved with the HPE Mobile Workspace solution and with less investment by providing the right processing power for each user's requirements. Compared to traditional rack server infrastructures, this solution offers considerable advantages in terms of overall operating costs (TCO). Thus, the solution scores high not only because of massively reduced complexity and corresponding increased operational efficiency; it also sets new records with significantly reduced space and power consumption per user as well.

For more information about HPE Moonshot, please visit:

www.hpe.com/ch/de/servers/moonshot.html

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