

Sun™ Virtual Desktop Solution

Caregiver mobility with security



Highlights

- Increase the efficiency of healthcare professionals by providing instant, flexible access to desktops and applications from any device or platform
- Reduce costs by consolidating desktops and applications into the datacenter and creating a centrally managed environment
- Provide secure delivery of sensitive data over the network
- Meet regulatory and compliance requirements through an access infrastructure that supports authentication, auditing, and reporting requirements
- Set up new users, workgroups, or departments in minutes
- Access multiple desktops or applications running on multiple platforms from single device



Hospitals are dynamic environments where staff and clinicians need fast access to hospital information systems (HIS) and patient records, such as treatment guidelines and imaging archives, from a variety of locations. However, this data is sensitive and private, so the system and access to the information must be secure. Typically, a desktop is used to access HIS and patient record applications from a variety of sources but the traditional desktop model presents many challenge for the specialized healthcare environment.

Healthcare challenges

The challenges presented by this combination of needs and environment include:

- Secure and fast access to patient data
- Session mobility between hospital wards, onsite and offsite doctors offices, and administration areas
- Secure availability of patient data on mobile devices
- Rising administration costs of the distributed desktop environment
- Access to legacy applications from diverse platforms
- Addressing compliance and regulatory requirements

The Sun solution

The Sun™ Virtual Desktop Solution addresses these healthcare desktop challenges by providing caregiver information mobility with security. The Sun solution starts with virtualizing complete desktop environments and installing them in the datacenter where they can be secured, managed, and maintained. Now, a few servers can be managed instead of hundreds or thousands of desktop devices.

With the Sun Virtual Desktop Solution, IT staff can provision desktops and applications to end users who are assigned appropriate access rights based on individual or group criteria. Access to these desktops is provided by Sun Ray™ software, Sun Secure Global Desktop Software, or a combination of both.

As a stateless client that needs no configuring, the Sun Ray virtual display client is an ideal choice for healthcare. By utilizing smart cards, it helps ensure quick access to desktop sessions from any Sun Ray client on the network. The addition of Sun Secure Global Desktop Software provides secure, browser-based access to the same desktop session from a wide range of client devices, including Windows desktops, Apple Macs, other thin clients, and even Windows PDAs. Sun Secure Global Desktop Software also provides access to legacy UNIX®, Linux, Windows, AS/400, or mainframe applications.

More and more, healthcare workers require mobile and remote access to information and applications so that they can provide better client care, reduce medical errors, and lower the cost of delivering efficient services. Rewriting applications for Web delivery is not only costly and time-consuming, it can strip away familiar user interfaces, making applications difficult to use. The Sun Virtual Desktop Solution utilizes familiar interfaces for applications and desktops, so there is no need to retrain users, and log ons take seconds and not minutes in an environment where time is a critical component of care.

Regulatory compliance

Increasingly strict privacy and information access guidelines, such as HIPAA and other

regional and national regulatory requirements, make tracking network usage and activity essential. The Sun Virtual Desktop Solution's extensive auditing and reporting features, available through Sun Secure Global Desktop Software, streamline compliance tasks and reduce the risk of noncompliance. IT staff can set privileges and access policies and maintain thorough records for each connection. Sun Secure Global Desktop Software makes tracking and reporting user activity easier through complete logging, session monitoring, and session control features that provide full accountability for users.

Security

Ironclad security is essential to keeping patient data private and safe. With Sun Ray Software and Sun Secure Global Desktop Software installed on servers running the Solaris™ Operating System, the Sun Virtual Desktop Solution capitalizes on all inherent features: security, scalability, and reliability. Furthermore, the three-tiered architecture provides an added layer of protection against malicious attacks to the datacenter. The solution employs leading dual-factor authentication mechanisms, such as RSA SecurID, and integrates with LDAP, directory services, Microsoft Windows Domains, and UNIX passwords.

Availability

The Sun Virtual Desktop Solution provides always-on mobile and point-of-care access for physicians, nurses, and healthcare professionals on the move, in surgery, at the bedside, or even at home, reducing the time it takes to access critical data. The Solution's resumability feature allows a user to stop using a desktop or application at any time on

one device and resume the session later on a different one, without session interruption or loss of data. As an added benefit, mobile application access reduces manual data entry and associated human error that can affect the integrity of patient data, while providing caregivers the ability to move about freely.

Cost savings

By centralizing application administration, the Sun Virtual Desktop Solution reduces the overhead associated with PC-based upgrades and refresh cycles. It accelerates the training of new staff and eliminates the retraining of existing employees. Because desktops and applications are Web-based and accessible from a variety of devices, multiple workstations are no longer needed, reducing capital expenses, maintenance, and support costs. The Sun Ray client uses only 4 watts of electricity, reducing electricity requirements and making it an eco-friendly choice.

Sun Virtual Desktop Solution components

Sun Ray virtual display clients offer the ideal platform for displaying the virtualized desktop. A Sun Ray client contains no resident operating system or applications, which makes it virtually immune to viruses and service attacks. And because a Sun Ray Client does not contain a disk drive or any means of persistent data storage, it is an unattractive target for theft. All of the data and applications displayed onscreen disappear the instant the client is turned off or the access card is removed.

To learn more about Sun Ray technology, go to sun.com/sunray.

Sun Secure Global Desktop Software provides secure, mobile access to virtualized desktops and applications from a variety of clients over any network. Cost-effective and reliable, even in complex business and technology environments, it delivers centralized management and flexible application access with industrial-strength security and encryption. Sun Secure Global Desktop Software enables immediate access to centralized Windows, UNIX, mainframe, and midrange applications from any device with a Java™ technology-enabled browser or native client.

To learn more about Sun Secure Global Desktop Software, go to sun.com/sgd.

Adopt the Sun Virtual Desktop Solution

With the Sun Virtual Desktop Solution, healthcare professionals gain secure, flexible, and rapid access to desktops and applications while retaining familiar interfaces and reducing costly and time-consuming retraining.

- Increase employee efficiency through instant, flexible access to desktops and applications—from any device or platform
- Consolidate the network infrastructure and create a centrally managed computing environment
- Provide secure delivery of sensitive data over any network
- Improve and maintain regulatory compliance
- Reduce deployment and maintenance costs through network-based desktop and application access

To learn more about the Sun Virtual Desktop Solution, visit sun.com/datacenter/consolidation/virtualization/desktop.

