



# Sun Ray™ Software 4

A Sun virtual desktop solution

## Highlights

### Enriched Multimedia

- Watch training videos through Windows Media Player with no compromises
- Conserve network bandwidth by decoding the video streams on the Sun Ray client instead of the server

### Ideal for VDI

- Deploy Sun Ray™ Software with the Sun Virtual Desktop Connector for VMware Virtual Desktop Manager
- Benefit from the high performance Sun Ray Appliance Link Protocol over the WAN or LAN

### Secure

- Centralize data and application for easier back-up, greater security, and IP protection
- Virtually eliminate client virus attacks

### Flexible

- Display Microsoft Windows, Linux, or Solaris™ OS desktops
- “Hot Desk” from office to conference room to home



Sun Ray™ Software 4 10/08 introduces enhanced multimedia playback capabilities on the Sun Ray 2 family of clients. These enhancements take advantage of the client side processing power of the Sun Ray hardware by decoding video streams on the clients vs. the Sun Ray server. This conserves network resources because users no longer consume large amounts of processor power to decode video streams on the server. It also reduces bandwidth consumption by leaving the video stream in its highly compressed state until it reaches its destination on the Sun Ray client. These enhancements are ideal for corporate communications and training.

Sun Ray Software is part of a comprehensive family of Sun virtual desktop solutions. With Sun virtual desktop solutions, an organization can use Sun Ray virtual display clients to essentially eliminate desktop maintenance. Users can have access to their own Microsoft Windows XP Pro or Windows Vista sessions running in a virtual machine (VM), or they can have access to a Microsoft Windows desktop environment utilizing Microsoft Terminal Services. Either option results in a secure, manageable desktop environment.

### Unique Sun Ray Software architecture

The unique Sun Ray Software architecture removes management of complex PC or embedded OS thin clients from the desktop equation by offering a complete virtual desktop. The architecture consists of two parts: Sun Ray virtual display clients and Sun Ray Software. The environmentally friendly virtual display client is a low-cost device that, when plugged into the network, delivers a secure network desktop. Sun Ray Software has three core components: Sun Ray Server Software, Sun Ray Connector for Windows, and Sun™ Desktop Manager. Add-on components for Sun Ray Software, including the Sun Ray Connector for VMware Virtual Desktop Manager, and Smart Card Authentication with Personal Computer/Smart Card (PC/SC)-Lite can be downloaded from [sun.com/sunray](http://sun.com/sunray).

### Sun Ray Server Software

Acts as a broadcaster, delivering customized content to each Sun Ray client on the network. Channel 1 might be Microsoft Windows, Channel 2 might be Linux, and Channel 3 might be the Solaris OS. It provides user authentication and encryption between server and client, as well as user session management. This not only enhances security, but also helps reduce complexity and administration of the IT environment. Sun Ray Server Software provides automatic load balancing, optimizing performance by distributing sessions across servers in the group.

### Sun Ray Connector for Windows

Enables a direct connection to Windows Terminal Services on Windows Server, Windows XP Pro and Windows Vista, so that Microsoft Windows applications can be displayed on the Sun Ray client. Using the innovative Kiosk Mode, customers can provide full-screen, Microsoft Windows desktops to Sun Ray clients, with all the security and mobility benefits unique to the Sun Ray technology architecture.

### Sun Ray Software add-on components

Sun Ray Connector for VMware Virtual Desktop Manager allows Sun Ray users to connect to Windows virtual machines via the VMware Virtual Desktop Manager. Smart Card Authentication with PC/SC-Lite enables access to smart cards with USB readers or Sun Ray readers.

### Key benefits

#### For IT professionals

- Conserve network bandwidth by having video streams sent directly to the Sun Ray clients instead of the Sun Ray server
- Eliminate risk of data theft and costly security vulnerabilities
- No operating system or software to upgrade physically at the desktop
- Simple “plug-and-work” set up or replacement
- No memory upgrades at the desktop for new applications
- Centralized desktop management
- Access to a broad choice of desktop environments: Microsoft Windows, Linux, or Solaris OS
- Reduce power consumption and increase desktop lifespan

#### For desktop users

- Enhanced multimedia enables users to watch videos with Windows Media Player and experience smooth, natural playback.
- Instant access to a customized compute environment from any Sun Ray client on the local area network (LAN) or wide area network (WAN)
- Seamlessly integrate full-screen Microsoft Windows
- “Hot-desk” from your home to office to conference room
- Wide variety of peripheral devices supported

### A secure and manageable Microsoft Windows desktop

The Sun Ray Connector for Windows leverages the smart card reader on every Sun Ray client to enable two-factor authentication, as well as provide digital signatures for Windows applications such as Outlook. With several levels of encryption to choose from to protect the connection between the Microsoft Windows and Sun Ray servers, and no data stored or cached on the client, security is not an afterthought it is designed in from the start. System administrators can leverage remote control capabilities to troubleshoot Microsoft Windows issues, monitor sessions, or assist with training. Additionally, those customers who want to run mixed desktop environments can cut and paste between applications running on different platforms.

### Sun Ray Server Software and Sun Ray Connector for Windows minimum supported configuration

- Server with UltraSPARC® or x86 processors (2 or more CPUs recommended)
- Disk Space: 95 MB for installation; 50-100 MB per user swap space
- At least one Ethernet interface installed on the Sun Ray server
- Sun Ray Virtual Display Clients

### Operating systems

- Solaris 10 OS 05/08 or higher
- Solaris 10 05/08 or higher with Trusted Extensions
- Red Hat Enterprise Linux 5 update 1
- SuSE LINUX Enterprise Server 10, Service Pack 1

### Learn More

Find the latest customer success stories, whitepapers and download a free 90-day trial of the software at [sun.com/sunray](http://sun.com/sunray).

For Sun Ray Connector for Windows OS\*:

- Windows XP Professional
- Windows 2003 R2 Enterprise Edition Service Pack 2
- Windows Vista

### Sun Desktop Manager minimum supported configuration (server)

- Solaris 10 OS (SPARC®, x86, x64 Platform Editions)
- Up to 200-MB disk space
- 1-GB RAM recommended

### Sun Ray Software Multimedia minimum supported configuration

- Windows Media Player 10 or 11
- Multimedia Redirection Component (SunMMR)
- Sun Ray 2, Sun Ray 2FS, or Sun Ray 270 virtual display clients
- Windows XP or Windows Server 2003
- MPEG-4 part 10 or Windows Media Video 9 media formats

\*Terminal Server functionality provided by Microsoft operating system products require additional licenses for use. Consult the license agreements for the Microsoft operating system products to determine which licenses must be acquired.