

# Sun Ray™ Software 4

A Desktop Solution for the Network Era

## Highlights

### Affordable

- Manage thousands of desktops with just a few system administrators
- Virtually eliminate costs related to client virus attacks

### Secure

- Centralize data and applications for easier back-up, greater security, and IP protection
- Lock down the desktop for a single user or groups, setting controls for applications including StarOffice™ and Mozilla™

### Flexible

- Display Microsoft Windows, Linux, or Solaris™ OS desktop
- Upgrade applications on thousands of desktops in hours or days, not weeks or months
- “Hot Desk” from office to conference room to home



Legacy desktop infrastructure makes it difficult for organizations to comply with ever-changing regulatory, application, and security requirements. Sun Ray™ Software provides an affordable, secure, and flexible solution for any organization that wants rich desktop functionality without PC complexity and vulnerability.

Sun has always believed that “The Network is the Computer™”, and our desktop software infrastructure products are designed around this guiding principle, helping organizations to deploy more agile and secure desktop solutions. Sun’s desktop infrastructure software focuses on centralization of applications and data, so that organizations can provide secure enterprise computing solutions, not personal computing (PC) solutions.

### 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.

### 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. Load balancing takes into account each server’s load and capacity — the number and speed of its CPUs — so that larger or less heavily loaded servers bear more of the load.

### Sun Ray Connector for Windows

Enables a direct connection to Windows Terminal Services, so that Microsoft Windows applications can be displayed on the Sun Ray client. In Controlled Access Mode, customers can provide full-screen, Microsoft Windows desktops to Sun Ray clients, with all the security and mobility benefits unique to the architecture.

### Sun™ Desktop Manager

Returns desktop control to system administrators by providing a Web-based tool to centrally control the Solaris OS desktop and applications. Because it removes complexity and increases management efficiency, this helps reduce costs and administration workload relating to desktop infrastructure.

## Key benefits

### For IT professionals

- Eliminate maintenance at the desktop
- 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
- More efficient utilization of computing resources
- Access to a broad choice of desktop environments: Microsoft Windows, Linux, or Solaris OS
- Proven technology backed by Sun’s support and service organization

### For desktop users

- 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 windows
- Wide peripheral device support

## A secure and manageable Microsoft Windows desktop

Sun Ray software customers have enjoyed a more secure and manageable desktop for years. They can now extend unique Hot Desk capabilities to a Microsoft Windows desktop with the Sun Ray Connector for Windows.

The Connector leverages the smart card reader on every Sun Ray client to enable two-factor authentication or encryption, as well as digital signatures for Windows applications, such as Outlook. With several levels of encryption to choose from between the Microsoft Windows and Sun Ray servers, and no data stored or cached on the client, security is not an afterthought, but 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.

### Centralized control of the desktop

Sun Ray Software empowers desktop administrators to deliver the right desktop to the right user. Certain users or groups may need full-screen Microsoft Windows desktops, others may prefer Red Hat, Novell Linux, or Solaris OS desktops. The Sun Ray architecture facilitates this multiplatform environment by offering all these desktop environments from a single, low-cost client device.

If customers are using the Solaris OS desktop, the Sun Desktop Manager is a productive tool that allows system administrators to easily configure user settings. It can provide default configuration values, or lock down configuration values that users cannot change for individual desktop applications or the desktop environment itself.

Sun Desktop Manager can be used to manage a variety of open source applications running in the GNOME-based, Java Desktop System environment, that is provided with the Solaris 10 OS. This includes the StarOffice office suite, the Mozilla browser, and most GNOME and Java technology-based applications.

Sun Desktop Manager provides the ability to adjust settings for these applications using a common user interface metaphor. As a result, the same familiar console can be used to specify settings for a wide variety of applications. Settings such as menu entries, desktop launchers, and startup applications can also be specified for the desktop environment itself.

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### 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
- Memory: 20-50 MB per user, depending on applications
- At least one Ethernet interface installed on the Sun Ray server
- Sun Ray Clients

### Operating systems

For UltraSPARC servers:

- Solaris 8, 9, 10 OS; Trusted Solaris™ 8 OS

For x86 servers:

- Solaris 10 OS
- Red Hat Enterprise Linux AS 3 (32-bit)
- SuSE LINUX Enterprise Server 8, Service Pack 3 (32-bit)
- (Windows Terminal Services for use of the Sun Ray Connector for Windows\*)

### 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

### Supported desktop applications

Solaris 10 OS with:

- StarOffice 7 or 8
- Mozilla 1.7
- Evolution 1.4
- GNOME 2.6 applications using GConf configuration management system
- Java applications using Java Preferences programming interface

### Supported languages

- English, French, German, Japanese, Korean, Spanish, Simplified Chinese, Traditional Chinese

\*If you access terminal server functionality provided by Microsoft operating system products, you need to purchase additional licenses to use such products. Consult the license agreements for the Microsoft operating system products you are using to determine which licenses you must acquire.

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