SUN RAY 2 VIRTUAL DISPLAY CLIENT

KEY FEATURES AND BENEFITS

REDUCE MAINTENANCE, UPGRADE, AND OPERATIONAL COSTS

FEATURES

- Display a Windows, Linux, or Solaris OS desktop.
- Pick up tasks where you left off as you "hot desk" from location to location—from office to conference room to home.
- Secure and centralize data and applications.
- Easily back up data, make it redundant, and secure it against theft and attacks.

BENEFITS

- Save money by managing thousands of desktops with just a few systems administrators.
- Virtually eliminate costs associated with client virus attacks.
- Protect intellectual property by eliminating insecure PC storage or removable media.
- Save time by upgrading applications on thousands of desktops in hours or days—not weeks or months.

Oracle's Sun Ray virtual display clients provide customers with an interoperable desktop computing solution that reduces the maintenance, upgrade, and operational costs associated with most desktop environments. The Sun Ray 2 virtual display client is particularly well-suited for cost-sensitive environments such as call centers, education, healthcare, service providers, and finance.

The Sun Ray 2 virtual display client uses only 5 percent of the total energy consumed by a personal computer.

Sun Ray Overview

Zero-administration Sun Ray virtual display clients enable access to applications on virtually any platform—Oracle's Solaris operating system, Java technology, Linux, UNIX OS, Microsoft Windows, AS/400, and mainframes. Sun Ray clients differ from complex PCs and thin clients with embedded operating systems because Sun Ray clients have no local operating system, such as Windows XP Embedded or Windows CE, to manage and administer.

The Sun Ray architecture consists of two types of components: Sun Ray virtual display clients and Sun Ray Software. Sun Ray clients are simple, low-cost, low-power devices that require no desktop administration. Unlike complex Microsoft

Windows or Embedded Linux–based thin clients and PCs, Sun Ray clients do not need to be upgraded when new applications are introduced or more computing power is required. Users can access their sessions from any Sun Ray client on a local area network (LAN) or wide area network (WAN). And with a smart card, access is even easier. Users simply insert their smart card into any available Sun Ray client and they have immediate access to their existing session.

Sun Ray Software provides user authentication and encryption between the server and clients, as well as user session management. It not only enhances security, but also helps reduce the complexity and administration of the IT environment. Sun Ray Software provides automatic load balancing, optimizing performance by distributing sessions across the 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 Software enables Sun Ray clients to connect to both LANs and WANs.

Sun Ray 2

The Sun Ray 2 virtual display client is half the size and consumes half the power of its predecessor. This small-footprint device is packed with all of the traditional Sun Ray features and is offered at a low price point. The typical power consumption of a Sun Ray 2 client is an astonishing 4 watts. This is only 25 percent the power consumption of most traditional thin clients—and a mere 5 percent of the power consumption of a typical PC.

The Sun Ray 2 virtual display client supports resolutions up to 1600 x 1200 at 24-bit color. It ships without a monitor and is compatible with Oracle's monitors as well as standard Video Graphics Array (VGA) or Digital Video Interface (DVI) third-party monitors, enabling organizations to leverage IT investments.

Sun Ray 2 System Specifications

Hardware	
Graphics	24-bit graphics; up to 1600 x 1200 resolution @ 60 Hz
Peripheral interface	• Two 1.1 Universal Serial Bus (USB) ports, powered • One serial port
Networking	10/100Base-T
Input devices	• USB keyboard • USB mouse • Smart card reader
Audio	• CD-quality audio in/out • Microphone • Headphone jacks • Stereo line level in
CPU	RMI Alchemy Au1550
Monitor	Industry standard DVI connector supports third-party and Oracle monitors (includes a HD15 adapter), and standard VGA-compatible monitors

Smart card	ISO-7816-1 (smart card reader)
Adjustments	N/A

Dimensions

Unit Without the Stand	Stand Dimensions
• Width: 28 mm (1.09 in.) • Depth: 122 mm (4.80 in.) • Height: 205 mm (8.07 in.) • Weight: 0.37 kg (0.82 lb.)	• Width: 95 mm (3.76 in.) • Depth: 215 mm (8.46 in.) • Height: 13 mm (0.51 in.) • Weight: 0.63 kg (1.39 lb.)

Regulations (Meets or Exceeds the Following Requirements)

- Safety: UL 60950/CSA C22.2-60950
- Ergonomics: GS Mark
- EMC: CISPR22; CISPR24; EN55022 Class B; FCC CFR Title 47, Part 15, Subpart B, Class B; EN55024:1998; IEC6100-3-2; IEC6100-3-3
- RoHS-6 compliant

Environment

Operating	0°C to 35°C (32°F to 95°F), 10% to 93% RH, 3 km (10 K ft.)
Nonoperating	– 20°C to 60°C (– 4°F to 140°F), 10% to 93% RH, 12 km (39K ft.)

Power

- External autosensing power supply, 100 V to 240 V AC, 50 Hz/60 Hz
- Average power consumption of a Sun Ray 2 client with one keyboard, one mouse, and one monitor connected is 3.9 watt hours

Acoustic

<3.5 B, <28 dBA (operator), ISO 9296

Warranty

Visit oracle.com/sun/warranty for Oracle's global warranty support information.

Services

Visit oracle.com/sun/services for information on Oracle's service program offerings.

Contact Us

For more information about Oracle's Sun Ray 2 virtual display client, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment