



VDI for Today's Dynamic Desktop

Virtual Bridges offers a fresh alternative to VDI. Our flagship product, VERDE, is the only Gen2 virtual desktop infrastructure and management solution. VERDE combines online VDI, offline VDI and VDI remote branch solutions to remove the management burdens, complexity and costs traditionally associated with desktop virtualization solutions.

VERDE is a complete solution, providing the technologies necessary for a successful VDI deployment – from the VERDE Core infrastructure and its integrated management Console, to LEAF™ endpoint support and Cloud Branch™ – VERDE delivers on the promise of VDI.



- Servers and Clusters
- Gold Master Images
- AD/Directory Services
- Storage Optimizer™

VERDE brings together powerful core technology that no other vendor can match, including:

Servers and Clusters – VERDE scales like no other VDI platform. Built on open Linux standards, VERDE's scaling model is a Web 2.0 horizontal model where each server is a wholly capable, standalone instance of the complete infrastructure – there will be no surprises designing for scalability with VERDE.

Gold Master Images – Gold Master Image provisioning reduces management significantly. Administrators create desktop images with the required operating system and applications that user segments need. Users then run a read-only copy of the Gold Master Image with all personal settings and documents written to a separate user disk.

AD/Directory integration – Seamlessly integrates with Active Directory, Novell E-directory and other Directory Services for AAA.

Storage Optimizer™ – Automatically moves Gold Master images to the server's local storage subsystem which is typically cached to server memory. This results in fast reads of the Gold Master in user VDI sessions while eliminating the IOPS load on shared storage - lowering costs and increasing performance.

Highlighted Capabilities Include:

- Completely stateless clustered servers increase scalability with Distributed Connection Brokering
- Gold Master Image model ensures users are running the latest version, significantly reducing the number of images requiring management and providing



native malware resistance to all desktop sessions

- Single console supports USB peripherals for online, offline and branch VDI users



- Windows and Linux desktops hosted and managed in the data center
- Clients: PCs, Mac, Thin Clients and Tablets

- VERDE Display protocols: RDP, NX, SPICE

VERDE Virtual Desktop Infrastructure provides dynamic routing of user sessions to the optimal VERDE server through Distributed Connection Brokering. This brokering provides no single point of failure or choke point allowing greater availability and scalability. Additionally, the VERDE Server Side Hypervisor includes the VERDE Hypervisor based on KVM, optimized for Desktop Virtualization. Hardware-assist (VT) allows more desktops to run per CPU core. KSM (Kernel Shared Memory) improves memory density.

Highlighted Capabilities Include:

- Completely stateless cluster servers increase scalability with Distributed Connection Brokering architecture
- Role and task based provisioning for VDI deployment modes
- Purpose-built solution runs on Windows, Linux, Macs, Netbooks, iPads and Android Tablets.
- Multi-tasking capabilities enable users to launch more than one virtual desktop session simultaneously
- Support for SPICE high-def multimedia protocol and SmartCast technology provisions the appropriate protocol (SPICE, RDP or NX) based on the user connection and type of desktop for a rich PC experience
- Single console supports USB peripherals for online, offline and branch VDI users



VERDE Console

The VERDE web-based monitoring console offers real-time visibility to all virtual desktop sessions running on VERDE cluster servers. Administrators have flexibility to view virtual desktop sessions grouped by user or server, or based on type of Gold Image. In addition, the console provides real-time server utilization metrics.

Highlighted Capabilities Include:



- Unified management console between VDI, offline VDI and branch VDI
- At-a-glance views to virtual desktops by user, server or type of Gold Image
- Configurable reporting including capacity and historical data, user events (login/logout) desktop and application activity, admin events (login/logout), etc.
- Centralized visibility for VDI, offline VDI and branch VDI

- LEAF Zero Endpoint – No installation required, client PXE boots to connect users to their VDI session

Highlighted Capabilities Include:

- LEAF Managed Endpoint – Gold Master Image model updated on the central server and automatically reflected in the user's offline LEAF environment (requires 64-bit processor architecture on client and Intel VT or AMD-V)
- LEAF Legacy Endpoint – Repurpose older hardware to eliminate aging and vulnerable Windows versions
- LEAF Zero Endpoint – Flexible, 32-bit no-install solution for ultra low-touch VDI deployments

Ensure IT services are up and running for every employee, at every branch. VERDE Cloud Branch eliminates WAN latency

VERDE Branch

to deliver a native-PC experience even over choppy and unreliable networks. VERDE Cloud Branch reduces network bandwidth in many scenarios while providing

business continuity even if the network is down. Our Cloud Branch server connects directly to the VERDE Cluster and Gold Master Image repository, providing a consistent, high-quality experience.

Highlighted Capabilities Include:

- Zero-admin Cloud Branch delivers LAN-like VDI performance for branch users
- Direct, local connection ensures branch users are running the latest, authorized copies of desktop sessions
- Organizations benefit from higher performance and response times while maintaining centralized control of desktop images in the data center – eliminating the need for expensive WAN optimization solutions
- Support for USB peripherals for online, offline and branch VDI users

VERDE leaf

VERDE Live Environment Access Format (LEAF) provides both connected (access to remote virtual desktop sessions) and offline (virtual desktop session is locally cached and executed on the client machine) access. LEAF is a self-

contained local desktop virtualization platform that is fully secure, so there is no need to worry about external endpoint security solutions. There are three versions of LEAF for specific endpoint types.

- LEAF Managed Endpoint – Fully-integrated, client Hypervisor for offline VDI users either on a laptop or portable drive with automatic bi-directional sync
- LEAF Legacy Endpoint - Installed locally on a client machine that supports connecting to a VDI session. Used to repurpose legacy hardware for VDI

SYSTEM REQUIREMENTS

- Standalone or Cluster, in Data Center or Cloud Branch*
- 64-bit Intel Xeon or AMD Opteron processor(s) with Intel VT or AMD-V
 - 4GB RAM minimum
 - 100GB local storage minimum, plus access to shared storage if clustered
 - 1Gbps Ethernet port minimum
 - Ubuntu Linux Server 10.04, Red Hat Enterprise Linux 6, or SUSE Linux Enterprise Server 11
 - Actual CPU core, memory, and disk capacity depends on concurrent virtual desktop deployment size.

REMOTE VDI ACCESS

- Windows 2000/XP/Vista/7, x86 Linux, or Mac OS X
- Most thin client vendor devices supporting Linux or Windows Embedded (e.g. DevonIT, Wyse, etc.)
- Java-enabled web browser (IE, Firefox, Safari)
- Standalone clients available Q1'12

VERDE LEAF

- Managed Local Process and Disconnected Use*
- Managed Endpoint: 4GB RAM, 60GB local storage recommended, 64-bit processor with Intel VT / AMD-V
 - Legacy Endpoint - 1GB RAM, 8GB storage

- Zero Endpoint -1GB RAM, 8GB storage on PXE server

Supported Virtual Desktops

- Supporting Virtually All Desktop Applications*
- Windows XP or 7
 - 32 or 64-bit Red Hat Enterprise Linux 5.4, 5.5 or 6 (or CentOS)
 - 32 or 64-bit Ubuntu Desktop 11.04 (10.04 32-bit)
 - 32 or 64-bit SUSE Enterprise Linux Desktop (SLED) 11

