



Leostream Connection Broker

Product Features

Comprehensive, Vendor-independent, Platform Integration

Operating Systems

Access desktops running 32- or 64-bit operating systems, including Microsoft® Windows® 7, Windows Server® 2003 and 2008, 2000, XP, Vista®, or Linux® operating systems.

Virtual Machines

Manage virtual machines from multiple instances of a wide variety of virtualization layers, including Citrix® XenServer® 4.x and 5.x, VMware® ESX 2.5 and 3.x, vCenter Server 2.5, VMware ESXi, VMware vSphere 4.0, VirtualCenter 2.0.x, Microsoft Hyper-V®, and Open Source Xen®. Enables deployment of hybrid systems.

Physical Machines

Fat Desktops: Register existing desktops with the Connection Broker using Microsoft Active Directory®, the Leostream™ Agent, or desktop IP address. Enables transition from existing physical desktops to virtual machines.

Blades: Connect to blades from IBM, HP, Dell, and others. Supports high performance protocols such as Teradici™ PC-over-IP® technology or HP RGS.

Server Sessions

Microsoft Remote Desktop Services Sessions: Assign users to Microsoft Terminal Services sessions alongside a desktop session. Enables simultaneous access to both sessions.

Applications

Citrix® XenApp™: Assign users to applications hosted in a Citrix XenApp server. Provides dual deployment of desktops and applications.

Access from Any Device or Location

Remote Desktop Web Connection

Use Microsoft Internet Explorer®, Mozilla® Firefox®, or Google Chrome Web browsers to access virtual desktops. Choose from a variety of connections, including RDP, Microsoft ActiveX® RDP, VNC, NoMachine NX, or any other third-party viewer available through a URL. The Connection Broker loads the viewer and signs the user into the remote desktop, without installing remote viewer software.

Thin Client Support

Tight integration with 10ZiG, Cranberry, Devon IT, IRIS, IBM, HP, IGEL®, and Wyse® thin clients; support for any client running Microsoft Windows XPe, or Linux with JRE 1.5 or higher.

Fat Client Support

Enables direct login to a desktop when running the Leostream Connect client on a Linux or Windows machine.

Sun Ray Support

Support for the Oracle® Sun Ray™ system of desktop units (DTUs) and Sun Ray Server Software (SRSS), providing integration with Oracle's system of stateless, smart card-enabled thin clients. The Connection Broker redirects traveling users to the SRSS closest to their desktop, allowing the efficient Oracle Appliance Link Protocol™ (ALP) to cross the high-latency connection.

Protocols

Supports Microsoft RDP v.5.0, v.6.0, and v.7.0, Citrix ICA, Famatech Radmin®, HP RGS, rdesktop, Teradici PC-over-IP (software and hardware-based), Oracle ALP and AIP (for SGD), NoMachine NX, and VNC, Wyse TCX remote viewer protocols, as well as the Wyse Virtual Desktop Accelerator (VDA) and Ericom Blaze RDP acceleration and compression.

Simple, Efficient System Set-up and Administration

Simple Installation

Delivered as a virtual appliance for VMware, Citrix, and Microsoft hypervisors that can be rapidly set up, duplicated, moved, and backed-up. Also includes an internal database to get up and running quickly.

Plug and Play

Easily configured to work with your current environment, including firewalls, load balancers, and DNS servers.

No Changes to Your Existing Infrastructure

Does not require changes to your enterprise systems, such as Active Directory, or SSL VPNs.

Web-based Administrator UI

Web interface provides convenient, "anywhere" access.

Session Management

Control Connection Broker sessions from the moment the user signs into the Broker; includes manual disconnect and log out of users from their desktops. Also integrates with Syslog servers for audit tracking. Generate pre-defined reports to monitor resource usage and user assignments.

Optional Agent-less Solution

Works without the Leostream Agent for simpler administration and upgrades. Used with the Leostream Agent, administrators have finer control of users' Windows and Linux sessions.

Optimal Interoperability

VMware View

Leverage your existing VMware View deployment while expanding your VDI. Deliver desktops using software PCoIP and provide a single login for View users who also need access to additional desktop resources, such as Citrix, Oracle Sun Ray, or Linux machines.

Directory Services

Authenticate users against one or more authentication servers including: Microsoft Active Directory, (support for NTLM), Novell® eDirectory™ (support for ZENworks®), or OpenLDAP™ servers. Different types of authentication can be combined and used in parallel, and no changes to authentication servers are required, simplifying deployment.

Multi-factor Authentication

Use multi-factor authentication systems, including smart cards (with Wyse WTOS thin clients, IGEL, Sun Ray clients, or Leostream Connect), client-side browser certificates, and biometric (fingerprint) authentication, enabling two- and three-factor user authentication.

SSL Support

Provide end users with secure Web interfaces using SSL encryption. The Connection Broker Web interface can generate a self-signed certificate or request a third-party certificate, supporting full integration with leading certificate authorities.

SSL VPN Integration

Integrate with existing hardware-based SSL VPN devices, including Oracle Secure Global Desktop, Cisco®, F5®, Juniper Networks®, and SonicWALL® firewalls, providing SSO desktop access from the internet with two-factor authentication (RSA token).

Provisioning

Create virtual machines from VMware Linked Clones and templates, as well as 3rd-party provisioning tools. Delete provisioned machines after use to save on storage.

Flexible, Comprehensive Policies

Hosted Desktop Pooling

Create groups of similar desktops and applications that can be assigned to users for a pre-determined period of time. Use characteristics such as operating system or desktop name to segment and nest pools.

Policies for Users and Machines

Location: Assign desktops, printers, registry keys, and remote viewer protocols based on client location or type. Configure standard monitor layouts to apply to all clients in a particular location, for example, a trading floor.

Session Stickiness: Establish policies to determine how long a desktop is assigned to a user. For example, policies can be set to optimize resource utilization or Microsoft Roaming Profile performance.

Kiosk Mode: Allow one user identity to log in from several clients for classrooms or call centers where all users log in using the same credentials, but require unique machines.

Remote USB Support: Establish policy-based control of USB devices such as PDAs, iPhones, memory sticks, drives, and scanners attached to the local Windows or Linux desktop and used within the virtual desktop environment.

Dynamic Client Configuration: Set client configurations, including remote viewer and Leostream Connect settings, on a per policy basis. Enables the client setup to be highly customized to the device, user, and location.

Dynamic Management of VM State: Set the power state of virtual machines (start, stop, suspend, and reboot) according to user policies. Enables hardware and license cost savings.

Global Scalability, Centralized Management

Scalability and Failover

Use multiple, clustered Connection Brokers to spread login and processing load. Use a Microsoft SQL Server® 2005 or 2008 database to scale easily to tens of thousands of desktops and permit tens of thousands of logins per hour. Manage all Connection Brokers in the cluster from a single web interface. In the case of a Connection Broker failure, user logins failover seamlessly to another Connection Broker.

Global User Redirection

Redirect travelling users automatically and transparently to their home Connection Broker and desktop. Global user redirection ensures users outside their assigned geographic location can access their desktops. Works seamlessly with Sun Ray redirection, providing SSO to VMs hosted on Sun Ray servers.

Seamless and Familiar End-user Experience

Hosted Desktop Performance and Reliability

Supports both commodity and high-performance protocols. Whichever display protocols you use, the Connection Broker provides optimal performance for end users. And the Connection Broker prevents downtime due to computer failure. When a Connection Broker fails, user logins are automatically switched to another Connection Broker with no interruption of the service.

End User Experience Pack

Deliver the desktop experience your users expect with a complete set of "last-mile" features: SSO, multiple monitors, PBX integration, USB management, location-based printing, and "anywhere" access.

Single Sign On: End users also enjoy seamless sign on with native SSO support for most clients, including those using Teradici PC-over-IP technology.

Multi-monitor Support: End users can span or split their desktops across any number of monitors. Applications position and maximize intelligently and intuitively.

USB Management: End users can use USB devices with any Windows or Linux virtual desktop, according to the settings you assign.

Location-based Printing: End users can access local network printers based on client location.

"Anywhere" Access: End users can access desktops reliably, from anywhere and from any client, according to the policies you assign.

Protocol Plans: Administrators can prioritize the order in which protocols are attempted in multi-protocol systems. Ensures end users consistently receive an optimized desktop.