



# ThinLinc<sup>®</sup> Terminal Server



***The world leading Open Source based Virtualization solution***

## ***Overview***

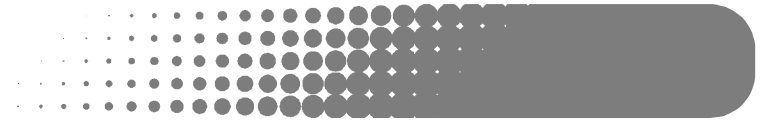
Cendio is an enterprise software company offering a Terminal Server solution to enable Server Based Computing. Organizations use Cendio's product, ThinLinc, to virtualize desktops and applications.

ThinLinc provides several industry-leading technologies and innovations that improve performance, increase security and drive down the cost of delivering Linux and Windows-based applications at the same desktop. ThinLinc is the only solution that integrates such a comprehensive set of features, enabling it to become a strategic part of your application delivery infrastructure.

**CENDIO<sup>®</sup>**

[www.cendio.com](http://www.cendio.com)

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## Solutions

ThinLinc Virtualization solutions are based on the functional breadth of ThinLinc, with the addition of cutting-edge features and packaged industry know-how. This gives our customers the tools and processes that they need to set them apart from the competition and delivers fast payback on their investment.

Read about technology solutions and features and see how Cendio can help your organization provide secure desktop and application virtualization:



### **VDI Connection Broker**

Desktop Virtualization or Virtual Desktop Infrastructure (VDI) provides a user experience similar to that of a standard desktop PC, using thin client technology. Typically, each user is provided with a private Windows XP instance which is executed within the data center, either on many smaller machines, or on virtual machines. Since each user has their own Windows instance, it is possible to provide administrator access, making it possible for users to install or remove software and make configuration changes.

Using ThinLinc as a VDI Connection Broker gives many advantages. No additional VDI client or server software is necessary, besides the normal ThinLinc client and server software. This means that the same installation can be used for both VDI and multi user terminal servers deployments, and unique features such as support for smart cards, microphone (bi-directional sound) and eDirectory are now available for VDI users as well.

The Windows server is secured. While the RDP protocol is not secure enough for untrusted networks, ThinLinc uses the trusted Secure Shell (SSH) protocol. This allows you to securely connect to the system over Internet. The Windows instances can be placed behind a firewall and need not be directly reachable from the Internet.

### **Advanced Graphics Support**

ThinLinc is an excellent platform for advanced graphics and visualization. All graphic updates are abstracted on the server side, thus giving great performance independent of application type or toolkit.

The ThinLinc server software provides a fast built-in OpenGL implementation, based on Mesa. Server-side, hardware accelerated OpenGL can be provided by using the VirtualGL in conjunction with ThinLinc. This makes ThinLinc very well suited for graphic intensive applications such as CAD-CAM, CAE, and visualization and allows applications such as Google Earth and YouTube to run with good performance.

With ThinLinc you can use a graphics processing unit (GPU) in the server to render 3D graphics, with many users sharing one GPU. The graphics is transferred to the client using a fast VNC implementation. A special accelerated JPEG is used to provide extreme graphics performance, capable of encoding streaming video in real time.

### **Deploying Linux Desktops**

ThinLinc is the most advanced Linux Terminal Server product on the market today. By using Linux and Open Source software, your organization can reduce the cost of IT, and at the same time get a more



flexible computing environment. Deploying Linux on a large number of traditional desktop computers, however, requires large resources. By instead deploying Linux desktops using thin client technology, you will get the benefits of two technology revolutions at the same time.

With Server Based Computing, the need for maintenance is greatly reduced. Compared to Windows-based terminal server solutions, the Linux environment provides additional benefits: A better scheduler gives better scalability. It is possible to install, remove, and upgrade software on active systems.

## Green IT

Global regulations are developing to encourage organizations and government agencies to start focusing on green computing in an effort to recognize and award energy efficiency and environmentally sustainable IT systems.

Green initiatives do not only benefit the environment but are also significantly reducing an organization's operational costs. Cendio can help organizations making their IT systems and processes "greener" by enabling:

- Reducing power consumption by corporate desktops by up to 50% when combined with thin client hardware.



## Experience it for yourself!

Download a FREE, fully-functional version of ThinLinc which supports up to 10 concurrent users! Available at [www.cendio.com/downloads](http://www.cendio.com/downloads)



- Enabling the efficient consolidation of application workloads, first in the data center through application virtualization, and then across server hardware within the data center through system virtualization and provisioning.
- Enabling organizations to reduce the carbon footprint, by offering employees the ability to work from home instead of driving to work and consuming costly office resources.
- Enabling access to the latest applications from older devices, by running applications on a centralized server instead of running them on each end-user device.
- Reducing the network complexity, operational costs, and energy consumption often required to run Web applications, with an ideal replacement for ageing load balancers and other traffic management devices.

## Security

- Built-in End-to-End VPN
- Encryption (AES, Blowfish, ...)
- Secure Against "Man-In-The-Middle" Attacks
- Smart Card (SITHS, PKCS#15/ISO 7816-15)
- IP Range, Access

## Management

- Customized clients
- Shadowing/Collaboration
- Web-based Centralized Management Console
- Application Publishing
- System Monitoring & Analysis
- Remote Server Management

## Load Management

- High Availability
- Two Tier Load Balancing

## Access

- Windows Client Support
- Mac OS X Client Support
- Solaris Client Support
- Linux Client Support
- Java Client Support
- ThinStation
- Support for most Thin Terminals

## Server Support

- Linux Server Support
- Solaris Server Support

## Usability

- Windows, Linux and Solaris Desktops
- Local Drive Access
- Local Printer Access
- ThinLinc Client Operating System (TLCOS)
- Nearest Printer function
- Sound Support, incl. Microphone
- Single Sign-On
- Mix Applications On The Same Desktop
- Streaming Video
- Advanced Graphics
- Access Open Source Software
- Adapted User Environment
- Persistent Sessions
- Clipboard Integration
- Serial Port Support
- Greater Control

## Support for 3<sup>rd</sup> Party Technology

- Novell eDirectory Support
- Microsoft ActiveDirectory Support
- LDAP
- One Time Passwords
- VDI Connection Broker
- Remote 3D Graphics

## Economy

- Dynamic License Handling
- Low Licenses Fees

## Cendio

Cendio is an enterprise software company offering a Linux Terminal Server solution to enable Server Based Computing. Organizations use Cendio's product, ThinLinc, to virtualize desktops and applications.

Since 1992, Cendio has been helping users to access enterprise mission-critical applications running on a broad range of Linux, Microsoft Windows, Mac OS, Virtual Desktop Infrastructure (VDI) and other systems.



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