



HOB X11Gate 3.1

Smarter and Easier Remote Access to Linux/Unix Servers

Overview

What people perceive to be comfortable, they no longer want to do without. Nowadays, people expect to have all kinds of information available, everywhere and at all times. However, workflows can be inconveniently interrupted if data become unavailable.

People who use applications on graphical Linux/Unix interfaces often can't get remote access to their systems, because using the responsible X protocol over the Internet is very cumbersome.

HOB X11Gate provides you with elegant and convenient multi-user remote access, as, for the communication, it uses the lean RD protocol. Hereby, it even enhances the known X-functionality with features such as automatic reconnections (in the event of an interrupted session). The secure communications platform HOB RD VPN extends the HOB X11Gate's exceptional abilities with strong encryption and enhanced management.

Strong Performance with RDP

RDP is the leading industry standard for the transmission of graphical user interfaces.

It uses bandwidth very efficiently and provides a multitude of useful functions. In a large-scale comparative test, none of the numerous other protocols tested came even close to the latest version of RDP, nor could surpass it in either functionality or performance. In realistic comparison tests

between RDP and VNC (protocol RFB Remote Frame-buffer Protocol), seven-times the amount of data was exchanged with VNC. A comparison of RDP with the proven X-Protocol (X11, MIT) resulted in similar results. The comparison of the exchanged amounts of data corresponds roughly to the behavior of the response-times, i.e., the time in which the user waits for the screen to refresh.

Advantages at a Glance

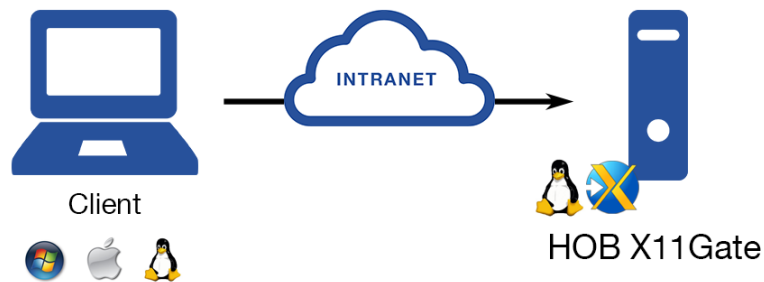
- Work faster and more effectively – elegant remote access to Linux/Unix systems with optimum bandwidth usage thanks to RDP
- More flexibility for users and administrators – remote access for many users at the same time. Server farms can be set up.
- Can do more than the native X-Protocol – for example, a session reconnect

Supports current Linux/Unix technology:

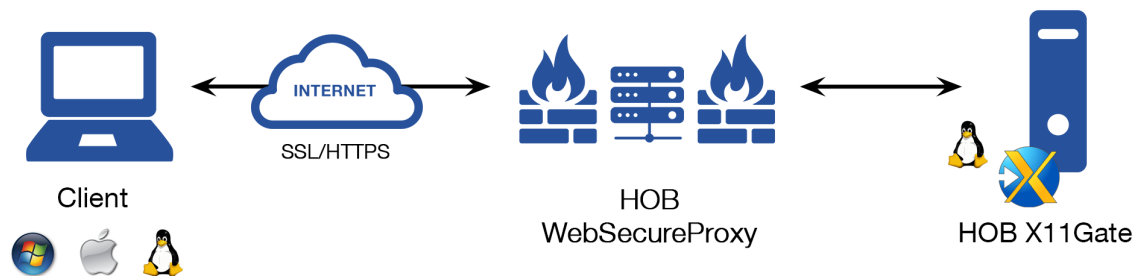
- X Server 1.17.1
- OpenGL / VirtualGL
- IPv4/v6

Use Cases

Use of HOB X11Gate as a stand-alone version



Increased security and enhanced management through the use of HOB X11Gate with HOB RD VPN (see description, below)



Expanded Possibilities

HOB advises you to use HOB X11Gate in combination with HOB RD VPN when the users also need to have remote access from outside of the corporate LAN. It provides you with more security, as it creates TLS encryption in accordance with the latest standards around the RDP connection. The quality of HOB RD VPN's security has been tested and certified in accordance with the Common Criteria at the Evaluation Assurance Level EAL4+ by the German

Federal Office for Security in IT (*Bundesamt für Sicherheit in der Informationstechnologie (BSI)*). With HOB RD VPN, you can define access rights in a role-based access control (RBAC) approach. Additionally, HOB RD VPN has the appropriate clients for best speed and convenience for each type of terminal device, including modern "clientless" HTML5-based technology.

Features and Functions

Learn all about the HOB X11 Gate features in the following paragraphs.

Central, Web-Based Administration

The HOB X11Gate administration portal allows users and administrators to manage sessions centrally over a Web browser.

The portal has an easy form role and rights management in order to administrate users and their sessions. It is also possible to block certain users. The administrator can also change the HOB X11Gate configuration and reload it – without disturbing the existing session.

Session Management

HOB X11Gate, as is usual in the remote desktop context, can easily restore interrupted sessions. Hereby, users return to the first uninterrupted session. The HOB X11Gate session remains in an “uninterrupted” state for a defined period if the user interrupts the session.

Flexible Keyboard Layouts

HOB X11Gate has a flexible keyboard support and layout.

Specific Linux keyboards can be used directly on the client device, even if it is a Windows PC or Mac. It is also possible to define a different keyboard layout on the client and use it for Linux applications.

HOB X11Gate supports keyboards in many different languages, such as German, English, Spanish and French.

Clipboard Support and Compression

HOB X11Gate has effective clipboard support, in order to simplify the workflow and process. Based on this feature, information can be easily exchanged between applications on the client and on the server.

The optional data compression can greatly increase the net data transmission rate. This improves the user experience, especially if you have a limited bandwidth available.

Enhanced Graphic Support

HOB X11Gate is the ideal choice when you need to use applications for rendering 2D and 3D computer graphics (OpenGL) on a Linux/Unix server, as it has its own, built-in software emulation.

It also automatically adapts the local screen resolution to that of the server.

Security and Authentication

To HOB, as an IT security expert, the security of your corporate resources is our highest priority. This is why we always endeavor to provide our customers with highly secure encryption methods and proven authentication technology.

HOB X11Gate supports the reliable RDP encryption with (symmetric) key lengths up to 128 bits. Clients are authenticated via PAM.

Enhanced security options can be attained through combination with the all-round remote access suite HOB RD VPN.

Highlights

- Multi-session/Multi-user capable
- Supports a wide array of keyboard layouts
- Web-based administration portal
- Restoration of interrupted sessions
- Supports OpenGL applications on Linux/Unix servers
- Gnome 3 support
- Smooth connection even with restricted bandwidth
- IPv4- und IPv6-compatible
- Standard RDP encryption
- Even more security functions in combination with HOB RD VPN

System Requirements

Server System

- 64-bit Linux/Unix OS

Client Specifications

- Any system on which an RDP client can be run
- Recommended RDP clients:
 - » HOBLink JWT (can be deployed anywhere, even without a browser-plugin; Java-based)
 - » HOBLink iWT (optimum performance for iOS)
 - » HOBLink Webterm RDP (HTML5 “client“)