

Exceed onDemand® 6

Exceed onDemand, a member of the award-winning Exceed® family, is a remote X application access solution designed for Microsoft Windows® and Linux® desktop users. It cost effectively delivers X application access to remote users worldwide.

Architecture

- Built-in clustering capability
- Automatic load balance
- Node maintenance
- Centralized data and configuration storage
- Remote administration using Exceed onDemand Server Manager
- Suspend Exceed onDemand sessions, Automatic suspend session on disconnect
- Keep suspended session active
- Cross platform resume
- User-controlled desktop sharing
- Suspended session alert upon connection attempt
- Single port communication
- Connection monitor
- Extensive server and client logging
- Per session proxy logging
- Tracing capability for troubleshooting
- Built-in file transfer mechanism
- Printing to locally installed printers
- Unified Microsoft Windows and Linux client interface

X Server

- X11R7.1 support
- Multiple color depths support
- Sun Microsystems compatible color map
- BackingStore and Save Under support
- Double Byte Character Set Support
- Extensive server visual support
- Support for local and remote window managers
- Copy-and-Paste — Copy on Focus Loss to file, clipboard and printer, Auto Paste

Performance

- Connection speed detection
- Highly compressible, proprietary protocol – Thin X Protocol
- Automatic or manual compression settings
- Intelligent image caching
- Automatic font caching
- Limited Window Exposure reduces roundtrip requests

Extensions

- BIG-REQUESTS
- Composite
- DAMAGE
- GLX
- MIT-SHM
- RANDR
- RECORD
- RENDER
- SHAPE
- SYNC
- XFIXES
- XInputExtension
- X-Resource
- XTEST

OpenGL

- Support GLX 1.4
- Support OpenGL 1.4 extensions in device drivers
- 3D overlay support
- Hardware acceleration

Fonts

- X11R5 RS/X11R6 Font Servers
- Automatic Font substitution
- International fonts
- Unicode fonts
- Native Windows FON fonts

X Proxy Startup Modes

- XDMCP Query
- XDMCP Broadcast
- XDMCP Indirect
- Passive

X Application Startup Methods

- Secure Shell¹
- REXEC, RLOGIN, RSH, TELNET
- Server Host Application

Security

- Support Secure Shell X11 port forwarding¹
- Secure Sockets Layer²
- Pluggable Authentication Module (PAM)
- Advanced host list access
- User access control list with MIT-MAGIC-COOKIE or XDK-AUTHORIZATION-1

Deployment

- Microsoft Windows Installer Technology (MSI) for Server installation on Windows platforms
- Hummingbird Deployment Tools — Project-based Web Deployment Packages
- Web-based Exceed onDemand Client deployment capability on Windows platforms
- RPM and TAR.GZ packages for Linux client

Administration

- Exceed onDemand Server Manager — A Windows-based management tool
- Xstart / Xconfig access lock down
- Per user permission configuration
- Global user permission configuration
- Session management

Features and Benefits

- **Linux Client Debut** — A complete Linux to Linux remote access solution
- **One Port for All Connections** — Uses only one port for all communications. Safer to implement. Easier to manage
- **X11R7.1** — Supports the latest X Window release from X.Org Foundation
- **Cluster Computing** — Exceed onDemand scales with your business
- **Automatic Cluster Failover** — Eliminates single point of failure in a cluster
- **Load Balancing** — Improves resource usage
- **License Pooling** — Many servers, one pool of licenses
- **Ultra Low Bandwidth Usage** — Up to 100 times more efficient bandwidth usage than traditional X servers
- **Suspend and Resume** — Pause your sessions and resume them anytime, anywhere, any platform
- **Suspend On Disconnect** — Network connection may be lost, but not your sessions
- **Desktop Sharing** — Share your work with co-workers, or not, it is all under your control
- **Support of Pluggable Authentication Module (PAM)** — Plug into your enterprise authentication servers
- **Secure Shell and SSL** — Protect your invaluable business data with the end-to-end secure communication
- **Support of OpenGL API** — Harnesses the power of the industry's most widely used and supported 2D and 3D API
- **Enhanced Hummingbird Deployment Wizard** — A step-by-step guide to better enterprise software deployment using web browsers
- **Windows-based Server Management Tools** — Remotely manage every aspect of your Exceed onDemand Server

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- **The debut of the Exceed onDemand Client for Linux Desktop** — Linux desktop users can remotely access X Window applications utilizing our highly efficient Thin X Protocol and the Exceed onDemand infrastructure. Exceed onDemand brings an ultra-fast performance and a low network footprint remote application access solution to enterprise users.
- **Cross-Platform Suspend and Resume** — Taking the original suspend and resume feature and push it one step further. Exceed onDemand users can suspend any session and resume it on desktops of either Windows or Linux platform. Exceed onDemand also provides an automatic session recovery capability in case of communication failure.

- **Cross-Platform Desktop Sharing** — Share sessions with any user on any platform to facilitate collaborative work.
- **A Single-Port Solution** — Communications among all Exceed onDemand components take place over one single port. The simplified architecture makes Exceed onDemand more secure and easier to manage.
- **X11R7.1 Support** — Hummingbird Connectivity continues to lead the market and is the only vendor that provides X11R7.1 support on all X Window related solutions. Exceed onDemand is as sophisticated and capable as any of the newest Linux or UNIX releases.

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- **Support for X11R6.8** — Supports the latest X Window System release from X.Org Foundation. Improve visual presentation of X Window desktops.
- **Automatic Cluster Failover** — Capable to switch over the managerial tasks automatically to any available nodes in the cluster upon the failure of the main node. It drastically improves the availability of the service.
- **Unicode and TrueType Fonts Support** — Improves the support for UTF-8 encoded fonts. Over 300 Unicode and TrueType fonts are added to the libraries.

- **Render Extension** — Render extension improves digital image composition which has become a crucial part of modern UNIX and Linux desktop environments.
- **Message Broadcast** — Allows administrators to notify Exceed onDemand users on important system or service events, such as scheduled service shutdown.
- **Enhance Logging** — Additional information such as server addresses and version can be found in the log file. New log options are also available.
- **Access Local and Remote Xstart Files** — Allows users to interchangeably launch either local or remote Xstart files. Xstart files can also be easily transferred to and from Exceed onDemand Server.

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- **Cluster Enabled** — new cluster architecture allows multiple Exceed onDemand Servers running on heterogeneous platforms to programmatically group together and form a cluster. It promotes load balancing and provides centralized profiles and license storage.
- **Crash and Resume** — keeps Exceed onDemand sessions alive on the Exceed onDemand Server in such events where either the network or the client PC becomes unavailable.
- **Active on Suspend** — improves productivity by allowing background processing, so even when a session is suspended X applications will remain active.

- **Support of Xstart** — Exceed-like Xstart application improves flexibility in configuring multiple profiles for a large group of users. It also promotes interoperability between Exceed onDemand and Exceed.
- **PAM Authentication** — interacts with enterprise authentication mechanisms, such as LDAP, Kerberos and RSA through the support of Pluggable Authentication Module framework.
- **New Cluster Manager** — Exceed onDemand Server Manager is redesigned to grant administrators with additional capabilities to remotely manage any Exceed onDemand Cluster and its nodes.
- **New Wizard-based Deployment Package Creation** — provides step-by-step guidance in the creation and the maintenance of deployment packages.

REQUIREMENTS

Exceed onDemand Server Requirements:

- Exceed onDemand Server Operating System: Windows 2000 SP4 or higher, Windows XP Prof SP2 or higher, Windows Server™ 2003 SP1 or higher, Windows XP Prof x64 Edition and Windows Server 2003 x64 Edition (run as a 32-bit application), Sun® SPARC Solaris™ 8 and higher, Sun x86 Solaris 8 or higher, IBM® AIX 5.2 or higher, HP® UX 11 and higher, Linux distribution with kernel 2.4 or higher, Minimum Memory: 256 MB, Minimum Hard Drive Space: 240 MB

Exceed onDemand Client Requirements: Windows:

- Windows 2000 SP4 or higher, Windows XP Prof SP2 or higher, Windows Server 2003 SP1 or higher, Windows XP Prof x64 Edition and Windows Server 2003 x64 Edition (run as a 32-bit application) and Windows Vista, Minimum Memory: 256 MB, Minimum Hard Drive Space: 20 MB

Exceed onDemand Client Requirements: Linux:

- Red Hat Enterprise Linux Workstation 3 and 4, Red Hat Enterprise Linux Server 4, SuSE Linux 10, Linux kernel 2.4 or higher, Glibc 2.3.2 or higher, GTK+ 2.2 or higher, i586 or better, Minimum memory: 256 MB, Minimum Hard Drive Space: 5 MB

Web-Deployment Requirements:

- Web Server: Any, Web Server Operating System: Any, Desktop Browser: Microsoft Internet Explorer 6.0 or above.

Footnote 1 – Only available on the Strong Encryption version of Exceed onDemand. **Footnote 2** – Available on the Strong or Weak Encryption version of Exceed onDemand.



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