



OpenText™ Exceed™ TurboX

OpenText Exceed TurboX is an advanced solution for desktop virtualization and remote access to enterprise applications and data, including X Window applications hosted on UNIX™ and Linux® servers and Windows® applications hosted on Windows servers. Exceed TurboX provides a central location for IT to securely deploy applications running on a variety of server platforms to a managed list of users. As a result, Exceed TurboX enables organizations to save costs by consolidating applications into the data center with minimal disruption to the business.

KEY BENEFITS

- Exceptional performance for high intensity graphical applications
- Support for 3D accelerated remote sessions, with multiple users sharing a single GPU
- Full LDAP or PAM-based user access control, with centralized administration
- Designed for mixed hosting environments with applications on both UNIX™ and Windows® servers
- Superior user experience across devices and platforms (Windows, Linux, Mac OS X®, and iOS)
- Up to 90% more efficient in bandwidth usage versus traditional X servers, thanks to the highly efficient ThinX Protocol.
- Provides a browser interface for launching new sessions, managing application profiles, monitoring and managing Exceed TurboX from any location
- Offers built-in support for OpenGL and DirectX applications and desktops, featuring a high-definition display with pixel-perfect drawing and precise color rendering
- Designed to integrate with private/public clouds, and on-premise or co-located data centers

HIGH SPEED GRAPHIC PERFORMANCE	
HIGH DEFINITION DISPLAY	Exceed TurboX offers unrivaled pixel-perfect drawing and precise color rendering, which increases productivity and quality of work.
INTELLIGENT ADAPTIVE PERFORMANCE TUNING	Exceed TurboX automatically tunes itself to deliver the perfect balance between image fidelity and accuracy, along with optimal performance and bandwidth usage.
ULTRA LOW BANDWIDTH USAGE	Exceed TurboX is up to 90% more efficient in bandwidth usage than traditional X servers, thanks to the highly efficient ThinX Protocol. Microsoft RDP sessions are similarly compressed, providing excellent WAN performance with little to no visible reduction in quality.
BUILT-IN SUPPORT FOR OPENGL AND DIRECTX	CAD/CAM engineers and other professionals working on 3D modeling can take advantage of out-of-the-box support for GPU-accelerated OpenGL and DirectX remote sessions for Windows and X Window applications. Not only can users access their remote 3D applications, they can also suspend their session and restart it later.

DIRECT SERVER-SIDE RENDERING	By tapping into the server-class CPU and memory resources, as well as high-end physical or virtualized graphic hardware (GPU) solutions available on server systems, Exceed TurboX allows users to launch complex applications with larger than ever data sets while achieving very fast performance.
CLUSTER-ENABLED ARCHITECTURE	The cluster-enabled architecture of Exceed TurboX allows organizations to create a centralized infrastructure, letting more users securely access more 2D and 3D applications, while maintaining optimal performance and reducing infrastructure impact. With support for NVIDIA vGPU, up to 16 users can run accelerated 3D remote sessions on a single GRID card.
SUPPORT FOR 64-BIT	Both the server and client components of Exceed TurboX natively support the 64-bit architecture on all platforms.
NVIDIA GRID (VGPU) SUPPORT	Multiple Windows virtual machines can access the host's physical GPU simultaneously to render complex 3D OpenGL and DirectX applications. Up to 16 users can share a single physical GRID GPU, providing extreme scalability, even for demanding Windows 3D applications.
UNPRECEDENTED USABILITY	
INTUITIVE DASHBOARD	Exceed TurboX provides users a bird's-eye view of all related profiles and sessions in a web dashboard that is both intuitive to use and highly informative. The dashboard gives users ultimate control over their settings, profiles, and sessions.
SUSPEND AND RESUME	By suspending any active sessions and resuming them anytime, anywhere, on any platform, users can take both Windows and X Window sessions with them when they are on the go.
SESSION SNEAK PEEK	Traditionally, the only way a user could determine the status of applications running inside a suspended session was by resuming it, which took time and resources to complete. The Session Sneak Peak feature changes all of that by providing users with a convenient snapshot of the session in real-time, through the web dashboard—an unprecedented way of looking into a session.
FAIL-PROOF SESSIONS	Exceed TurboX can automatically suspend any active session in the event that the network connection is lost. It maintains the state of applications running in the session, protecting valuable project data from accidental disconnection.
SUPERCHARGED SHARING	In a globalized economy, projects require collaborative work from a team of international members. With Exceed TurboX, users from around the globe are able to share projects and ideas in real time over the Internet, by taking advantage of desktop and application sharing for both Windows and X Window sessions.
ALL-IN-ONE REMOTE ACCESS	Exceed TurboX provides fast remote access to UNIX, Linux, and Windows desktops from any Windows, Mac, Linux PC or iPad®. Exceed TurboX allows users to work on the platform of their choice, while accessing applications and desktops on a variety of hosts.
MESSAGES AND NOTIFICATIONS	Exceed TurboX includes a built-in email messaging system that notifies users based on predefined events, such as system or session status, or when someone wants to share a session. Real-time notifications can help improve the responsiveness of IT and enhance user productivity.
SECURE BY DESIGN	
SUPPORT FIPS 140-2 VALIDATED ENCRYPTION	Exceed TurboX incorporates the latest FIPS 140-2 validated SSL libraries to encrypt network communication.
ENCRYPTION WITH SSH AND SSL	Communication between user desktop computers and application hosts can be secured and encrypted using a combination of Secure Shell (SSH) and Secure Socket Layer (SSL) protocols.

SUPPORTED PLATFORMS:

WEB APPLICATION SERVER:

- Red Hat® Enterprise Linux 6.5 or later, 64-bit only
- Oracle® Solaris SPARC 10, 64-bit only
- Java Runtime 1.8 U60 or later

DATABASE SERVER:

- IBM DB2® Express-C 10.5 with Red Hat Enterprise Linux 6 or later, 64-bit only
- IBM DB2 Enterprise Server 10.5 with Red Hat Enterprise Linux 6 or later, 64-bit only
- Microsoft SQL® 2012 SP1 Standard Edition or later on Windows Server 2012 R2 or later
- Microsoft SQL 2008 R2 SP2 Standard Edition or later on Windows Server 2008 R2 SP1 or later
- Apache Derby 10 or later, on all supported ETX Server platforms

CONNECTION NODE:

- Oracle Solaris SPARC 10, 64-bit only
- Oracle Solaris x86-64 10 or later, 64-bit only
- Red Hat Enterprise Linux 6.5 or later, 64-bit only
- SuSE Linux Enterprise 11 or later, 64-bit only
- IBM AIX 6.1 or 7.1
- Windows 10, 64-bit only
- Windows 8.1, 64-bit only
- Windows 7 SP1, 64-bit only
- Windows Server 2008 R2 SP1, 64-bit only
- Windows Server 2012 R2

CLIENT:

Windows Platforms

- Windows 10
- Windows 8.1 or later
- Windows 7 SP1 or later
- Windows Server® 2008 R2 SP1 or later
- Windows Server 2012 R2 or later

Linux Platforms

- Red Hat Enterprise Linux® 6.5 or later, 64-bit only
- SuSE Linux Enterprise Linux 11 or later, 64-bit only

SINGLE-SIGN-ON AND LDAP INTEGRATION	Through the support for Kerberos™ and GSSAPI, Exceed TurboX client grants Windows users access to Exceed TurboX and remote resources without re-authentication. Single-sign-on can reduce password fatigue and help organizations improve compliance.
PAM SUPPORT	Exceed TurboX supports various backend authentication mechanisms, including Pluggable Authentication Modules, through which Exceed TurboX users can be authenticated against third-party authentication systems that have standards-based PAM libraries.
COMPREHENSIVE ACTIVITY LOG	Exceed TurboX empowers administrators with the ability to quickly explore and inspect details of users and server activities with ease, thanks to the new activity logging mechanism. Log entries can be easily exported for further analysis or archiving purposes.
SESSION-BASED PRIVACY	For businesses that exercise stringent privacy control, Exceed TurboX incorporates session-level privacy settings. Users can prevent administrators from shadowing or sneak peeking into their sessions without their exclusive permission.
ENTERPRISE SCALABILITY	
CLUSTERING AND LOAD-BALANCING	As a cluster-enabled solution, Exceed TurboX supports horizontal scaling of line-of-business applications and their demand for computing resources. Exceed TurboX can dynamically distribute workload within the cluster to ensure that all server resources are fully utilized.
MULTIPLE LEVELS OF FAILOVER AND REDUNDANCY	Exceed TurboX offers automatic fail-over protection and works with existing high-availability infrastructures to support various failover scenarios and redundancy provisioning.
CENTRALIZED USERS AND ACCESS MANAGEMENT	Exceed TurboX keeps users and access management in a centralized database. It reduces the administrative headaches of managing disparate user communities and empowers administrators to control application access on the user and group levels.
EFFORTLESS DEPLOYMENT AND MANAGEMENT	
REMOTE SUPPORT	Exceed TurboX utilizes centralized data storage to store system and user-related profiles and configurations, reducing the administrative headaches of managing disparate user desktops. Centralized profile management also empowers administrators to manage application access at the user and group levels.
DIVERSE ADMINISTRATIVE ROLES	Companies may need multiple levels of administrators to manage different aspects of the solution. Exceed TurboX supports four different administrative levels, each crafted for different management tasks.
ANYWHERE ADMINISTRATION	Administrators can monitor and manage Exceed TurboX from any location using just a web browser on any computing device. Exceed TurboX Server Manager includes a full web interface.
USER AND GROUP MANAGEMENT WITH MICROSOFT ACTIVE DIRECTORY® INTEGRATION	One of the administrative overheads in managing server-based solutions is user and group management. Exceed TurboX can non-intrusively access Microsoft Active Directory and allow administrators to use existing user and group information to configure profile and access control.
BUILT-IN REPORTING	Exceed TurboX can provide detailed reporting on resource and license usage over any given period of time. The built-in reports provide insights into usage patterns and license consumption, so that companies can properly provision hardware and software licenses that are suitable for their needs.
ZERO CLIENT INSTALLATION	In any large organization, one of the central drains on IT resources is software deployment. Exceed TurboX eliminates the stress on IT by providing a clientless architecture, where the latest client runtime is downloaded from the ETX server on demand.

Mac® OS X Platforms

- Mac OS X 10.10 (Yosemite)
- Mac OS X 10.9 (Mavericks)

IOS PLATFORMS

- iOS 8.0 or later, on iPad 2, iPad (with Retina display), iPad Air™, iPad mini™, and iPad mini with Retina display

JAVA™ PLATFORM

- Java 1.8 Update 45 or later

WEB BROWSERS

- Microsoft Internet Explorer® 9 or later
- Microsoft Edge®
- Mozilla Firefox® 40 or later
- Chrome™ 45 or later
- Safari® 8 or later (applicable to Mac OSX only),

AUTOMATIC VERSION CONTROL	Another leading drain on IT resources is software maintenance and version control. Exceed TurboX is designed so the right version of the client software is downloaded and installed automatically when the user launches a remote session
DESKTOP VIRTUALIZATION	
GPU H.264 SUPPORT FOR MAXIMUM INFRASTRUCTURE CONSOLIDATION	Exceed TurboX supports GPU-based H.264 video compression, providing maximum performance and user density for GPU-enabled server environments. In addition, the Exceed TurboX proxy has an extremely small CPU and memory footprint, providing maximum scalability on the smallest amount of server hardware. These features allow companies to create the highest concentration data centers and achieve extremely efficient virtualization strategies.
IDEAL FOR PRIVATE/PUBLIC CLOUD INITIATIVES	Exceed TurboX employs a modern web-centric architecture, with web-based authentication and web-based administration interfaces. This makes Exceed TurboX a perfect fit for any organization's private or public cloud initiative, offering secure remote access to cloud-based applications, data, or assets with ease and LAN-like efficiency.

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