
Exceed Turbo X 12.5.1 Release notes

1 Introduction

These Release Notes provide an overview of Exceed TurboX 12.5.1, including new features, delivery information, and supported platforms.

OpenText recommends that you read these Release Notes in conjunction with the documentation included with the software package. If any conflicts exist, the Release Notes supersede the other documentation.

We also recommend that you check OpenText support (www.rocketsoftware.com/support) for any patches or documentation updates that may have been posted after the initial release of this product.

1.1 Release Notes revision history

Revision date	Sections revised	Description of revisions
2022-12-20	First release.	All new content.

1.2 Related documentation

For additional information about Rocket Software Exceed TurboX, or for supplemental information about related products, refer to the following documents, which are available on Rocket Software support (www.rocketsoftware.com/support).

- *Rocket Software Exceed TurboX 12.5.1 Dashboard and Client User Guide*
 - *Rocket Software Exceed TurboX 12.5.1 Installation and Configuration Guide*
 - *Rocket Software Exceed TurboX 12.5.1 Server Manager Administration Guide*
- 1.3** *Rocket Software Exceed TurboX Hot Fix Notes*

About Exceed TurboX 12.5.1

Rocket Software Exceed TurboX (ETX) is a web-based platform that enables users to launch UNIX and Windows desktops and applications over the internet. ETX provides IT with a central platform to monitor and manage user access to systems. It provides users with a seamless experience, where desktops and applications running on remote hosts look and feel as if they are running locally.

2 New features

Exceed TurboX 12.5.1 includes the following new features.

2.1 New features

2.1.1 Allow etxsvr to start with systemd when run by non-root user

Added User=xxx setting to [Service] section of otetxsvr service file where xxx is the owner of the \$ETX_HOME directory. There is a check in the etxsvr command that checks if the user running the script is the same as the user that owns the \$ETX_HOME directory and if they are not the same, that user is not authorized to run the etxsvr command.

JIRA ID: ETX-24600

2.1.2 Allow ETX backup with large directory size

JIRA ID: ETX-24565

2.1.3 New Device redirection grouping

To support current and future device redirection options, the devices configuration tab in profiles has been grouped to segregate Audio, Drive, and other redirections.

JIRA ID: ETX-24517

2.1.4 Request session owner permission to join shared session

New profile option introduced to allow the session owner to be prompted (while the session is active) when an invited user attempts to join a shared session. This requires the session owner to then accept or reject the request, the user is notified of the response.

JIRA ID: ETX-24474, ETX18404

2.1.5 Direct RDS drive redirection support

Users now have the ability to enable the option to allow removable drive redirection between the local machine and the remote server. This will redirect either existing removable drives, or drives connected subsequently after the session is launched.

JIRA ID: ETX-24401

2.1.6 Allow middle button emulation choice to be command key instead of alt key using MAC client.

Allow middle button emulation option to be 'Command' key instead of Option/Alt key when using the MAC Client. In order to use the left Command key as function key, set proxy.MidBtnWithCmd=1, otherwise, the Option/Alt key is used.

JIRA ID: ETX-24047

2.1.7 Define a 'Preferred Master' server in clustered environment

For environments with more than one ETX server and are using clustering, a new 'Preferred Master' option is available in the Site Settings > Cluster tab to define a preferred master server amongst the cluster servers defined on the page. The default option of 'none' is the default and no preferred server will be defined. If the preferred server becomes unavailable, another random server in the

cluster list will be selected. When the preferred server becomes available again, it will revert back to the defined preferred server.

The ability to define the preferred master server can also be set by using GET or PUT commands in the /v2/site/settings REST API.

JIRA ID: ETX-23958

2.1.8 Allow client to be installed ignoring dll hijacking enforcement.

There is now an option in the launcher installer to define how to deploy/install the client launcher. The default install will install the relevant dll's in the System folder to mitigate the possibility of a bad actor dll hijack attack. When the new, less secure option is enabled, the dll's will not be installed in the System folder and bypass the possibility of being prompted by antivirus software that dll's are not eligible to be loaded.

JIRA ID: ETX-23802

2.1.9 Unify the details in the 'I' information tab

Previously when either active or shared users would click on the 'I' information icon they would see either session information or the sharing dialog depending upon their role. For continuity, the same system information page will be displayed for either participant role.

JIRA ID: ETX-23448

2.1.10 Enhance 204 Forbidden error messages in REST API

The existing 403 Forbidden error messages have been expanded to provide a more descriptive response as to why. e.g. "User does not have permission to create template" or "User is not permitted to suspend another user's session."

JIRA ID: ETX-23340

2.1.11 Add email address to watermark

A new @m macro option is now available to include the email address of the user in the watermark feature.

JIRA ID: ETX-22874

2.1.12 Disable download launcher

There is a new option in the Site Settings - Security screen, under the Client Launcher category to 'Allow manual Client Launcher download'. When disabled, the 'Download Launcher' option in the User Settings-Client Settings screen will not be available to the user. The default configuration is enabled.

JIRA ID: ETX-22750

2.1.13 Send additional warning messages before session termination

There is a new option in the Server Manager > Messages screen, in the 'For session owners' group to 'Send a reminder message every <numerical value> <time span> after initial warning.' When used in tandem with the 'Send a warning message .' option, it will repeat sending the message to the user based on the time frame set. This option is also available to be set in the User settings screen.

JIRA ID: ETX-22531

2.1.14 Add logic to address when a users' primary group is not a domain user

Previously, when a user's primary group was not a Domain user, it would not properly distribute or publish profiles to other members of a user group. This functionality has been enhanced to have these users included in the groups.

JIRA ID: ETX-22275

2.1.15 'Sending copy of all messages by email' option will now send emails for ALL messages.

All messages sent from the Server Manager grids shall be also sent as emails if "Send copy of all messages via email" is enabled.

JIRA ID: ETX-20637

2.1.16 Allow users to select a specific node group to launch a profile

A new 'Any node Group' node targeting option is available to be used in profiles and templates. When enabled, users are now prompted to select a node group from a group list when launching a session. The number of members associated with the node group(s) will also be displayed to define the number of participants per node group.

JIRA ID: ETX-20095

2.1.17 View available ETX Client Launcher version from server manager

In the Client Launcher dropdown on the user settings screen, we now show the launcher file name which includes build number.

JIRA ID: ETX-19331

2.1.18 PulseAudio support for Solaris Intel

Audio redirection is now supported for Solaris Intel 11.4.

JIRA ID: ETX-19045

2.1.19 Audio redirection for MAC client

Audio playback is now supported in the Native Mac Client.

JIRA ID: ETX-19080

2.1.20 Startup banner to warn users of forthcoming maintenance periods

A new option is available to define a pop-up message that is displayed to users when they start any new sessions or resume any existing sessions, either by manually resuming or the sessions or is reconnected after a network outage or the user has hibernated their PC. The messages will continue to be displayed indefinitely until the admin disables the message.

JIRA ID: ETX-18945

2.1.21 Register a node on different ETX server without uninstall (Windows)

Administrators using the Windows deployment of ETX server, now have the ability to unregister and reinitialize existing nodes to associate a node to a different ETX server without the need to do a complete re-install.

JIRA ID: ETX-18863

2.1.22 Prompt session owner to join shared session option

A new profile option is available to prompt the session owner that an invited user is requesting to join the session. The session owner has the option to accept or deny the join request and the requesting user is also notified of the response.

JIRA ID: ETX-18404

2.1.23 Enforce username case sensitivity for PAM and Kerberos

To allow administrators to enforce usernames be created in either all upper or lower case, a new Username capitalization option is available on the Authentication > User Information page to accept the username to be as-typed or forced to be either all uppercase or lowercase.

JIRA ID: ETX-17126

2.1.24 Send repeated messages for suspended sessions

A new 'Send a reminder message every <time frame> after initial warning' option is now available in the Server Manager > New User Settings screen. This option will repeat sending the suspended session warning message to the user based on the time frame set. The option is also available to be set in the User settings screen.

JIRA ID: ETX-16737

2.1.25 Create a shortcut and start session from desktop

A new command line option is now available to allow the launching of sessions without requiring the user to authenticate or login using the dashboard.

JIRA ID: ETX-16068

2.1.26 Add new GET /v2/sessions/poll API

A new long polling API option is now available to monitor the state of sessions. The API will only return values when a session is started, suspended, resumed or terminated.

JIRA ID: ETX-15812

2.1.27 CN registration uses 'localhost' when hostname command is unavailable

During CN installation on some modern Linux systems (Arch Linux), if the hostname command is not found, we hard-code the host name to "localhost" and show it in the node registration details.

JIRA ID: ETX-24691

2.1.28 Allow ETX launcher to accept multiple tokens

Provide the ability to pass multiple tokens to the launcher, and have the launcher consume the tokens in sequence as needed and not require multiple calls for multiple tokens.

JIRA ID: ETX-24684

2.1.29 MacOS client now saves hostnames in client cache instead of OS user default

To match the way hostnames are stored in the Windows and Linux clients, hostnames are now stored in the client cache.

JIRA ID: ETX-23445

2.1.30 Datastore clean command

A new bin/etxsvr datastore clean command has been implemented to remove unused runtime files under the data directory.

JIRA ID: ETX-15319

2.1.31 Preserve custom sort order of columns in Dashboard and Server Manager grids

The grid sort order in both the Dashboard and Server Manager screens are now preserved. Users can now define the sort order of the grids and they will be retained once the user logs out.

JIRA ID: ETX-21507

2.1.32 Native hardware resolution (DPI awareness) for Mac Client

Previously the windows content was scaled to be larger than the screen display. New functionality does not scale the window, it will fill the screen based on the native resolution.

JIRA ID: ETX-14114

2.1.33 Printer redirection for Windows Direct host

Users now have the ability to use local client printers when using a Windows Desktop Direct profile to emulate the printing feature available in RDP.

JIRA ID: ETX-13281

2.1.34 Accept or refuse a request to join a shared session

A new option has been added to profiles to enable a session owner to be prompted to either accept or refuse an invited user to join the session. Both the session owner and the invitee are presented with popup messages to denote the request, and the responses.

JIRA ID: ETX-5223

2.2 Discontinued and deprecated features

The following features have been discontinued in this release:

- N/A

3 Fixed issues

This section lists the bugs and customer-reported issues.

3.1 Issues fixed in Version 12.5.1

This section provides information about past issues, fixed in ETX after the release of Version 12.5 and not addressed in any of the Version 12.5 hot fixes.

JIRA ID	Description	Affects
ETX-23696	Fixed an issue that causes the value of "Terminate suspended sessions after..." to limit to 71582 minutes. New upper limit is 2147483647 minutes (> 4000 years).	ETX Server
ETX-23729	Fix an issue that might prevent user from creating new profile in Dashboard Icon view mode, due to the profile panel was hidden when no profiles or templates exist.	ETX Server
ETX-23961	Fixed an issue that might cause mouse double clicks to fail to work on Virtuoso tool under Single window mode and Xfce environment in RHEL8.	ETX Runtime
ETX-24079	Fixed an issue that might cause the "PM – Proxy Manager" checkbox in Server Manager to unset after a few seconds for newly created node.	ETX Server
ETX-24230	Fixed an issue that might cause the "Welcome to Exceed TurboX!" wizard to appear every time user logs when using OTDS as authentication.	ETX Server
ETX-24464	Fixed an issue that might cause "Limit total sessions to 1" option to work incorrectly when 2 users connect simultaneously.	ETX Server

3.2 Issues fixed in Version 12.5 hot fixes (Server)

This section provides information about past issues, fixed in ETX Server hot fixes, after the release of Version 12.5

3.2.1 Issues fixed in Hot Fix 5-SERVER

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-24523	Fixed an issue that might cause a wrong error message to pop up when launching a profile with customized load balance script, e.g., Set profile target node as @=myloadblancescript.sh.
ETX-24565	Fixed an issue that might cause server backup to fail due screenshots directory is not removing old files.

3.2.2 Issues fixed in Hot Fix 4-SERVER

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-24065	Fixed an issue that prevents downloading trace package from web client.
ETX-24277	Fixed an ETX Launcher issue that might cause session not to run with Korean account on Windows.
ETX-24331	Fixed an issue that might cause etxadmin to fail to create an API Key for a user.

3.2.3 Issues fixed in Hot Fix 3-SERVER

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-23932	Updated JDK to latest versions to resolve security vulnerabilities. ▪ Linux/Windows: version 17.0.4+8 ▪ Solaris: version 11.0.16
ETX-24130	Updated PostgreSQL driver to version 42.2.26 (postgresql-42.2.26.jar) to resolve security vulnerabilities.

3.2.4 Issues fixed in Hot Fix 2-SERVER

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-23038	Fixed an issue in macOS client that might cause ETX Launcher to fail to start a second session.
ETX-23799	Fixed an issue in Linux client that might cause ETX Launcher to fail to start with Firefox on Ubuntu 22.04. Notes: This update is only applicable for fresh base launcher installations. For existing installations, you need to run update-desktop-database ~/local/share/applications manually in order to allow the launcher to work with browsers.
ETX-23875	Fixed an issue that might show wrong Server version (e.g. 11.5) for unknown license client version in Server Manager's License page. Unknown license version should display 0.0.
ETX-23878	Fixed an issue that might cause Suspend idle sessions after {XX}minute(s) not working as expected if entered value is more than 30 minutes.
ETX-23939	Fixed an issue that might cause incorrect Node target of profile to show in Server Manager UI, e.g. Any node, when using template with locked Node selected.
ETX-23994	Fixed an issue that might cause REST API not to update user email and full name when using LDAP as authentication type.

3.2.5 Issues fixed in Hot Fix 1-SERVER

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-23624	Fixed an issue that might cause an error “Error getting data from the server...” to appear when a user has a role assigned and when this user attempts to remove himself from the user group.
ETX-23644	Fixed potential vulnerabilities CVE-2021-34428, CVE-2020-27223, CVE-2020-27218 in jetty-util-9.4.31.v20200723.jar
ETX-23706	Fixed an issue that might cause an error “WARN [http(s)-25890] c.o.c.e.c.api.XAppProfileApiImpl Duplicate attribute id ClientType in session id 1eceae03-868b-6fb2-875c-2b5e3b5c8661 -- [XAppProfileApiImpl.java:2136]” to appear in log file.
ETX-23879	Fixed an SMTP UI related issue to allow username/password fields can be left blank.
ETX-23880	Fixed an issue that might cause REST API <i>POST /v2/apikeys</i> or <i>POST /v2/apikeys/user/{userid}</i> to return NULL apiKey.

3.3 Issues fixed in Version 12.5 hot fixes (Runtime)

This section provides information about past issues, fixed in ETX Server hotfixes, after the release of Version 12.5

3.3.1 Issues fixed in Hot Fix 4-Runtime

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX- 23416 ETX-23450	Fixed a Linux client issue that might cause some window areas, e.g. Amount window, to appear blank when running Scribe application under Multiple Window mode.
ETX-23825	Updated to OpenSSL 1.1.1s to fix security vulnerabilities.
ETX-23973 ETX-24365 ETX-24069	Fixed an issue that might cause active session to be stuck in Suspending state with error message "Error: Client table is full for new accepted socket ..."
ETX-24276	Fixed a Mac client issue that caused File Transfer to fail with 100% CPU of ETX Client Launcher.
ETX-24325	Fixed an issue with Windows Desktop – RDP profile that might not log user out when user clicks on "Terminate and Sign out".
ETX-24378	Fixed an issue that might cause etxproxy process to use 100% CPU, due to a bug in font server when there's a connection timeout.
ETX-24506	Fixed a web client issue that might cause space bar to fail to work in xfce session.

3.3.2 Issues fixed in Hot Fix 3-Runtime

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX- 22540	Fixed an issue that might cause main session window moved to primary display when sharing is initiated, even it is specified in the profile to start the session on non-primary display.
ETX-24016	Fixed a Mac client issue that might cause some red lines appeared on the external displays in full screen mode.
ETX-24021	Fixed an issue that might cause a focus issue due to wrong window stacking order when ETX icon appears in the stack.
ETX-24062	Fixed an issue that might cause missing contents when running X applications (e.g. Allegro) with mate or KDE environment.
ETX- 24070	Fixed an issue that might cause etxaudio process to remain running after session is terminated.
ETX-24165	Fixed a race condition of NumLock state that causes Numlock key not to work correctly in shared session.
ETX-24202	Fixed an issue that might cause AltGr combinations not to work in Ubuntu 22.04.1 due to the XKB info was not loaded properly.
ETX-24209	Fixed an issue that causes <Option key>+<Trackpad left click> for middle button emulation on MacBook to fail to work correctly.

3.3.3 Issues fixed in Hot Fix 2-Runtime

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-18903	Fixed an issue that might cause cursor not changing inside the canvas when using ETX HTML5 web client. Notes: This fix requires additional Server HF4 to work correctly.
ETX-22878	Fixed a Mac client issue that might cause sessions to fail to resume when switching from WiFi to Ethernet and vice-versa.
ETX-23417	Fixed an issue in Linux client that might cause a blank window to appear on application start-up in Multiple Window Mode.
ETX023573	Fixed an issue with that might cause Mac client to send Command (⌘) combination keys remotely even they are configured to be local only.
ETX-23677	Fixed an issue that might cause custom Startup session to run in system.slice instead of user.slice when using systemd.
ETX-23685	Fixed an issue that might cause Touch Bar dialog to pop up in the background or behind other windows.
ETX-23697	Fixed an issue that might cause mouse events to go to wrong window when running Tornado application.
ETX-23699	Fixed an issue that might cause ALT key not working as expected when the X application relies on KeymapNotify event to detect the keyboard state.
ETX-23760	Fixed an issue with Mac client that might cause wrong stacking order of newly mapped window when running KDE desktop under Multiple window mode.
ETX-23884	Fixed an issue that might cause Copy and Paste large size of texts to fail when copying from Windows app and pasting to Linux app.
ETX-22855	Fixed an issue that might cause forward/back buttons to be stuck and caused the X desktop to freeze.
ETX-23900	Fixed an issue that might cause the proxy to crash when transferring trace bundle.
ETX-23901	Fixed an issue that might cause Copy and Paste to fail to work between two ETX sessions in Linux client.
ETX-23930	Fixed a Copy and Paste issue when copy from Microsoft OneNote (local) and paste into remote x app.
ETX-23955	Fixed an issue that might cause Login screen not shown when option Show desktop backdrop is Off with latest lightdm-gtk-2.0.8-3.el8.x86_64.

ETX-23982	Fixed an issue that might cause gnome Super Keys to fail to work properly on Mac client
ETX-23991	Fixed an issue that might cause auto reconnect errors after suspending a session or network interruption.

3.3.4 Issues fixed in Hot Fix 1-Runtime

The following issues were fixed in this hotfix:

JIRA ID	Description
ETX-23176	Fixed an issue in Linux client that might cause missing Minimize button in Java applications running under KDE desktop.
ETX-23180	Fixed an issue that might cause Kerberos ticket not to renew if ETX session is suspended.
ETX-23344	Fixed a Mac client issue that might cause pull-down menus of Virtuoso to display incorrectly when running on 2 external monitors.
ETX-23379	Fixed an issue with web client that caused Auto-detect of keyboard not to work correctly.
ETX-23646	Fixed an issue that might cause new windows of Java application to fail to open on Primary monitor under Multiple window mode.

4 Downloads

Downloads for Exceed TurboX are available on [My Support](#).

5 Documentation

Documentation for Exceed TurboX is available on [My Support](#).



Note

Documentation that is installed with the product or packaged with the product download is current at the time of release. Documentation updates made after a release are available for download on Rocket Software support (www.rocketsoftware.com/support).

6 Supported environments and compatibility

This section provides details about supported platforms, systems, and versions.

6.1 Supported systems

ETX Server	Red Hat® Enterprise Linux® 7.9 or later, x86-64 CentOS® 7.x, 64-bit Oracle® Solaris® SPARC® 11.4 or later, x86-64 Oracle Solaris x86-64 11.4 or later, x86-64 SUSE® Linux Enterprise Server 12.3 or later, x86-64 Windows 8.1, Windows 10 and Windows 11 x-86-64 Windows Server® 2012 R2, 2016, 2019 and 2022 x-86-64
Connection Node	Oracle Solaris SPARC 11.4 U13 or later, x86- 64 Oracle Solaris x86-64 11.4 U13 or later, x86-64 Red Hat Enterprise Linux 7.9 or later, x86-64. ARM 64-bit supported on 8.x SUSE® Linux Enterprise Server 12.3 or later, x86- 64 CentOS 7.x, x86-64. ARM 64-bit supported on CentOS 8.x. Ubuntu 20.4 or later on ARM Linux 64-bit IBM AIX® 7.2 TL4 or later, 64-bit Windows 8.1 and Windows 10, Windows 11 x-86-64 Windows Server® 2012 R2, 2016 and 2019, 2022, x86-64
Client	Windows 8.1 and Windows 10, Windows 11, x86-32-bit and x86-64-bit Windows Server® 2012 R2, 2016 and 2019, 2022, x86-64 Red Hat Enterprise Linux 7.9 or later, x86-64 CentOS 7.x, x86-64 Ubuntu 20.4 or later on ARM Linux 64-bit MacOS™ 10.15 (Catalina) or later
Web Browsers	Microsoft Edge ® Mozilla Firefox® Google Chrome™ Apple Safari®

6.2 Rocket Software product compatibility

This section provides details about which versions of other Rocket Software products are compatible with this release of Exceed TurboX 12.5.1.



Note

For the latest compatibility information for Rocket Software products, refer to the Product Compatibility Matrix.

Product name	Version	Notes

6.3 Language support

Exceed TurboX is currently localized in the following languages. Additional languages may be available in future releases.

Component	Languages									
	EN	DE	FR	IT	ES	KO	JP	RU	ZH	ZH-TW
Rocket Software Exceed TurboX	UI	UI	UI	UI	UI	UI	UI	UI	UI	UI

Note: Certain components of the product are not localized.

7 Installation and upgrade notes

This section provides additional installation and upgrade information, including related or third-party product information and any required critical patches.

7.1 Installation notes

Before you install Exceed TurboX, review these additional installation notes and verify related product or third-party product requirements.



Note

A new option is available when installing the client launcher. Allow third party libraries to be loaded in ETX Client Launcher should be selected under special circumstances only. (For example, if a previous installation failed with a security warning.) If you select this option, a less secure version of the Client Launcher is installed. This version allows non-system DLLs to be used. If you install this version of the Client Launcher, future service pack updates will be applied to this version and will not update your installation to the more secure version.

7.2 Upgrade notes

Before you upgrade, review these instructions.

7.2.1 Windows Upgrade

- Any 11.5.x versions ETX Server for Windows deployments are not compatible with the new 12.5 version. Customers wishing to update from that older version to this latest version would need to re-install.
- There is no migration path to move an existing customer running on the Linux version of ETX Server over to the Windows version of ETX Server due to database incompatibility. Customers wishing to convert their ETX Server environments from Linux to Windows would require a full reinstall.

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