opentext™

OpenText™ Connectivity Service Pack Notes

Version 15.0.1—15.0.7

Sep 2019

Contents

1 Introduction

This document describes OpenText Connectivity 15 Service Packs, including new features, resolved issues, and known issues. OpenText recommends that you read this document in conjunction with the documentation included with the software package. If any conflicts exist, this document supersedes the other documentation.

1.1 Release Notes Revision History

Revision Date	Sections Revised	Description of Revisions
2019-25-09	SP7 release	Service Pack 7 content
2018-12-10	SP6 release	Service Pack 6 content
2018-02-09	SP5 release	Service Pack 5 content
2017-10-17	SP4 release	Added CONN-3275
2017-08-21	SP4 release	Service Pack 4 content
2017-04-25	SP3 release (Issues resolved)	Added CONN-3019
2017-04-14	SP3 release	Service Pack 3 content
2016-03-31	SP2 release	Service Pack 2 content
2015-08-28	SP 1 release	Service Pack 1 content

2 Packaging and documentation

Software downloads and documentation for OpenText Connectivity products are available on the OpenText My Support (https://support.opentext.com/).

2.1 Related documentation

The following guides provide additional information about the Version 15 products. The guides can be downloaded from OpenText My Support (https://support.opentext.com/).

- *OpenText Connectivity Installation Guide*
- *OpenText Connectivity Migration Wizard Guide*
- *OpenText Connectivity Web-to-Host and Deployment Wizard Guide*
- *OpenText Exceed User's Guide*
- *OpenText HostExplorer User's Guide*
- *OpenText HostExplorer Programmer's Guide*
- *OpenText HostExplorer Basic Language Programmer's Guide*
- *OpenText Secure Shell User's Guide*
- *OpenText Connectivity Release Notes*

3 Installation instructions

This section describes how to install an OpenText Connectivity Service Pack, or a hot fix.

📓**Note:**   File names supplied in the installation procedures are example file names only. Replace them with the name of the files you downloaded.

3.1 Installing FIPS Only version of Connectivity 15.0.1

This section describes how to install *FIPS Only* version of OpenText Connectivity 15.0.1.

Note: These instructions apply if you do not already have FIPS Only version of Connectivity 15.0.1 or higher installed. If you have already followed these instructions then you do not need to uninstall, as upgrading to a new version will keep things in the correct FIPS Only state.

To install *FIPS Only* version of OpenText Connectivity:

1. Uninstall the previous version of OpenText Connectivity.
2. Visit OpenText Knowledge Center (https://knowledge.opentext.com/).
3. Locate the OpenText Connectivity page for downloads, and the OpenText Connectivity installation packages.
4. Download the installation package/file for the product you want to install. Both the 32 and 64-bit versions are available. You can download:
    - `a` DVD ESD self-extracting executable file which will expand the DVD contents (including `msetup.exe`) to a folder on your computer
    - a product ISO file which can be mounted or burned to physical DVD media. For example, `OpenTextExceed15.0.1.iso`
5. Once you have access to the DVD folder tree, run the `msetup.exe` to continue the installation process.
6. Follow the on-screen prompts, to complete the installation.

   📓 **Note:** For details on FIPS Only installation, see *FIPS compliance update* on page 88.

3.2 Installing the EXE format

This section describes how to install Connectivity 15.0.1 using the `.exe format.` Use this procedure if you do not want to limit yourself to using *FIPS only* version of OpenText Connectivity.

1. Unzip the service pack and run the self-extracting executable as per your platform/product:

    `OpenTextConnectivity15_ServicePack1.exe` or
    `OpenTextConnectivity15x64_ServicePack1.exe`

2. The OpenText Installation Wizard will guide you through the installation.

3. Select the Service Pack Installation Method. You can install the service pack onto a locally installed product or onto an administrative image.

4. Click Next to install the service pack.

    > **Note:** If you want to view the service packs available and their corresponding version numbers, please enable the following check box:
    >
    > `Disable automatic patch selection (you select the patches to install).`
    >
    > Click Next, and then click Patch Details, for the selected service pack.

3.3 Installing the MSP format

This section describes how to install a using the `.MSP format.` Use this procedure if you do not want to limit yourself to using *FIPS only* version of OpenText Connectivity.

- Apply the appropriate `.MSP` file needs to each of the OpenText products that you have installed. You need to apply multiple MSP files if you have multiple products, i.e., Exceed and OpenText Secure Shell. The MSP service pack can be applied to one or the other of the listed options.

    > **Note:** A reboot may be required after the service pack installation.

Apply to…	Details
a) Personal installation — OR	Right click on the MSP service pack and choose Apply OR from a command line execute: `msiexec /p < MSP_file>`

Apply to…	Details

b) An unpatched Administrative image or a patched Administrative image	From a command line, execute: `msiexec /a /p < MSP_file>`
	Example:
	`C:\>msiexec /a`
	`"C:\Exceed15_Admin\OpenTextExceed_ServicePack1.msi" /p`
	
	`"C:\Exceed15_Admin\ OpenTextExceed15x64_ServicePack1.msp"`

3.4 Hot fix installation instructions

This section describes how to install the hot fixes. Hot fixes address software issues, and typically do not contain new functionality. Hot fixes can be cumulative.

- **Note:** The file names in the following procedures are examples only. Replace them with the name of the files you downloaded.

1. Unzip the downloaded hot fix file:

   `2015-06-15_exceed.exe_v15.0.1.745`

2. Replace the contents of the existing Exceed directory with the contents supplied in the `2015-06-15_exceed.exe_v15.0.1.745` hot fix directory.

4   Connectivity 15.0.7 (Service Pack 7)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.7, also known as Version 15.0, Service Pack 7.

4.1   New features in Connectivity 15.0.7

This section lists the new features and enhancements implemented in Connectivity 15.0.7 (Service Pack 7). For descriptions of the feature added via hot fixes, see *New features in Connectivity 15.0.6 hot fixes.*

4.1.1   XDK compatible with Visual Studio 2015+

Modified the Motif12 and Motif20 code to build the 32-bit `Xmstatic.lib` compatible with Visual Studio 15 and later versions.

JIRA ID: CONN-3860

4.1.2   HostExplorer new function for toggling the selection mode

The following function was added to the HostExplorer **Keyboard Map** utility, under **Function group > Editing Keys**:

- **Toggle-Edit-Selection-Mode**—Toggles the text selection mode between **BLOCK** text selection and **STREAM** text selection.

JIRA ID: CONN-3921

4.1.3   Support for Windows Server 2019

Added support for Windows Server 2019 to all OpenText Connectivity products.

Note: OpenText Connectivity Web-to-Host and Deployment Wizard was updated to Service Pack 8 (SP8), to support running it on Windows Server 2019.

JIRA ID: CONN-3979

4.1.4   New OpenSSL Version

OpenSSL libraries have been updated to Version 1.0.2r.
For more information about the OpenSSL versions, refer to the OpenSSL Release Notes:

https://www.openssl.org/news/openssl-1.0.2-notes.html

4.2 New features in Connectivity 15.0.6 hot fixes

The following new features were added via hot fixes, after the release of Connectivity 15.0.6, and prior to completion of Connectivity 15.0.7 release. All the hot fixes are cumulative and included in the 15.0.7 release.

4.2.1 New feature in Hot Fix 8

This section describes the new feature added in Hot Fix 8.

JIRA ID	Description	Affects
CONN-3858	Added the ability of HostExplorer to automatically detect the SSL/TLS user certificate and attempt to connect using this certificate. **New configuration option** The following option was added to the **User Authentication > User Certificate mode** section: • **Automatically select smart card certificate** When this option is selected: • If a smart card certificate is found, a connection is established through the certificate • If no smart card certificate is found, the connection fails and the following message is displayed: **No smart card certificate found**	HostExplorer

4.2.2 New feature in Hot Fix 2

This section describes the new feature added in Hot Fix 2.

JIRA ID	Description	Affected Component(s)

CONN-3885	Connectivity Secure Shell now supports the following Elliptic Curve Digital Signature Algorithm (ECDSA): `ecdsa-sha2-nistp256`
	
	The user needs to have the following files:
	
	`CKStore.dll`
	`Humtunnel.dll`
	`HumCSSPlugins.dll`
	`libeay32.dll`
	`libeay32f.dll`
	`ssleay32.dll`
	`ssleay32f.dll`
		OpenText Connectivity Secure Shell

4.2.3 New feature in Hot Fix 1

This section describes the new feature added in Hot Fix 1.

JIRA ID	Description	Affected Component(s)
CONN-3858	Added the ability of HostExplorer to automatically detect the SSL/TLS user certificate and attempt to connect using this certificate. Updated the `heui32.*.nls` component. **New configuration option** The following option was added to the **User Authentication > User Certificate mode** section: • **Automatically select smart card certificate** When this option is selected: • If a smart card certificate is found, a connection is established through the certificate	HostExplorer

JIRA ID	Description	Affected Component(s)
	• If no smart card certificate is found, the connection fails and the following message is displayed: **No smart card certificate found**	

4.3 Issues resolved in Connectivity 15.0.7

JIRA ID	Description	Affected Component(s)
CONN-3993	The Nautilus application appears to re-launch itself consistently when the following two conditions are met: • Working in Gnome (or left idle) *-and-* • Multiple Exceed instances are running. The Gnome sessions are launched by Xstart in Secure Shell startup mode.	OpenText Connectivity Secure Shell Xstart
CONN-3986	Resolved the following issue: • When an Xapplication is launched, the image flashes and disappears. The fix ensures that the Exposure events caused by ClearArea are not suppressed by BackingStores. I.e., the server will send an expose if anything was painted by ClearArea.	OpenText Connectivity Exceed
CONN-3953	Removed the GTK libraries, due to licensing restrictions.	OpenText Exceed XDK
CONN-3942	Resolved the following issue: • The Auto-Close option did not work consistently. Initially, Xconfig was closed successfully at the set	OpenText Connectivity Exceed

JIRA ID	Description	Affected Component(s)
	time, but after a while, the option no longer took effect and the application was not closed automatically. The issue was detected with the following configuration: `Xconfig > Communication > Passive > Auto-Close connection after 1 minutes > Close even when application is active.`	
CONN-3912	Updated the Kerberos executables to latest retail versions.	OpenText Connectivity
CONN-3887	Resolved issue where the admin package was missing the MSP file, causing the installation to fail with the following error message: "This patch package could not be opened".	HostExplorer
CONN-3850	Resolved the following issue: • The user cannot connect to HMC CR9 AS/400 system console via a 5250 profile **New profile option** Added the following new option for TN5250E profile: `TN5250E Send Terminal Type Before New Environ"=Off ( default)` **Note:** To address the above issue, if you are using HMC C9 server (or any mainframe using "extended telnet"), update the profile as follows: • Enable the profile option, in the [PROFILE] section of the `.hep` file. That is, set the option as follows:	OpenText Connectivity HostExplorer

JIRA ID	Description	Affected Component(s)
	`TN5250E Send Terminal Type Before` `New Environ=On`	

4.4 Issues resolved in Connectivity 15.0.6 hot fixes

The following issues were resolved in hot fixes after the release of Connectivity 15.0.6, and prior to completion of Connectivity 15.0.7 release. All the hot fixes are cumulative and included in the 15.0.7 release.

4.4.1 Issue resolved in Hot Fix 11

This section describes the issue resolved in this hot fix.

JIRA ID	Description	Affected Component(s)
CONN-3976	Resolved an issue that caused the title bar to disappear. Fixed unmapping /mapping in rapid succession without Delay Window Mapping.	OpenText Connectivity Exceed

4.4.2 Issue resolved in Hot Fix 9

This section describes the issue resolved in this hot fix.

JIRA ID	Description	Affected Component(s)
CONN-3969	Resolved the following issue: • Exceed did not draw PolyPoint correctly when the CoordMode was Previous. As a result, pages displayed with an X application appeared truncated.	OpenText Connectivity Exceed

JIRA ID	Description	Affected Component(s)
CONN-3961	Resolved the following issue, which occurred intermittently: • An xterm window was expanded, and then stopped responding to mouse actions. The fix removed the moving/sizing deadlock on Windows 10.	OpenText Connectivity Exceed

4.4.3 Issue resolved in Hot Fix 7

This section describes the issue resolved in this hot fix.

JIRA ID	Description	Affected Component(s)
CONN-3937	• Resolved a crash issue that could occur when window manipulations happened in rapid succession in Multiple Window Mode.	OpenText Connectivity Exceed

4.4.4 Issues resolved in Hot Fix 6

This section describes the issue resolved in Hot Fix 6.

JIRA ID	Description	Affected Component(s)
CONN-3876 CONN-3370 CONN-2949	Resolved an issue where `explorer.exe` failed to be launched after Windows 10 patches were applied, or during a Windows 7 to Windows 10 upgrade. Exceed, HostExplorer and OpenText Secure Shell make use of Microsoft Active Setup to push Per-User settings when users log in. In the above situations (e.g., during Windows 10 upgrades) these keys were removed. After reboot and login, Explorer attempted to launch Connection Central, but the installer was blocked. All the desktop icons,	Active Setup

JIRA ID	Description	Affected Component(s)
	including the Connection Central, were missing and the Windows 10 desktop remained blank. The issue is no longer present. Explorer is no longer blocked from starting.	

4.4.5 Issues resolved in Hot Fix 5

This section describes the issue resolved and the OpenSSL update added in Hot Fix 5.

JIRA ID	Description	Affected Component(s)

CONN-3939	Resolved an issue causing HostExplorer to crash. The fix contains the following updated files:
	
	`ckstore.dll`
	`humcssplugins.dll`
	`humtunnel.dll`
	`hetptn.dll`
	`libeay32.dll`
	`libeay32f.dll`
	`ssleay32.dll`
	`ssleay32f.dll`
		OpenText HostExplorer

4.4.6 Issue resolved in Hot Fix 3

This section describes the issue resolved in this hot fix.

JIRA ID	Description	Affected Component(s)
CONN-3798	Resolved the following issue: ● Expose events were not properly delivered to Windows using Direct GLX rendering.	OpenText Connectivity Exceed

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5 Connectivity 15.0.6 (Service Pack 6)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.6, also known as Version 15.0, Service Pack 6.

5.1 New features in Connectivity 15.0.6

This section lists the new features and enhancements implemented in Connectivity 15.0.6 (Service Pack 6). For descriptions of the feature added via hot fixes, see *New features in Connectivity 15.0.5 hot fixes.*

5.1.1 Support for more rows and columns in HostExplorer 3270 profiles

HostExplorer 3270 profiles may now include a greater number of columns and rows. The maximum number of rows and columns has increased, from 72 to 155 rows, and from 200 to 255 columns.

To configure the number of rows and columns:

1. Open the property editor for a 3270 profile and select the **Terminal > 3270** tab.
2. Change the **3270 Model** value to **Custom**, and then then change the **Rows** and **Columns** settings as follows:
   - **Rows (20 To 125)** — Enter any number between 20 and 125; this defines the number of rows on the screen for your next session
   - **Columns (80 To 255)** — Enter any number between 80 and 255; this defines the number of columns for the next session.

JIRA ID: CONN-3781

5.1.2 HostExplorer shortcuts for toggling between upper and lower case

New keyboard shortcuts for toggling between upper and lower case have been added to the Keyboard Map dialog. These shortcuts change the case of the character at the cursor location to either upper or lower case. The cursor is then moved one character to the right, which allows repeated use of the shortcut to capitalize entire words or fields.

The following new functions were added to the **Keyboard Map** utility, under **Function group > Editing Keys**:

- **Cursor-Make-Uppercase**—Toggles the character at the current cursor position to upper case, and then moves the cursor to the next position.

- **Cursor-Make-Lowercase**—Toggles the character at the current cursor to lower case, and then moves the cursor to the next position.

Note: If the character at the cursor location is already in the target case (upper or lower), the cursor moves to the right without changing the character in that position.
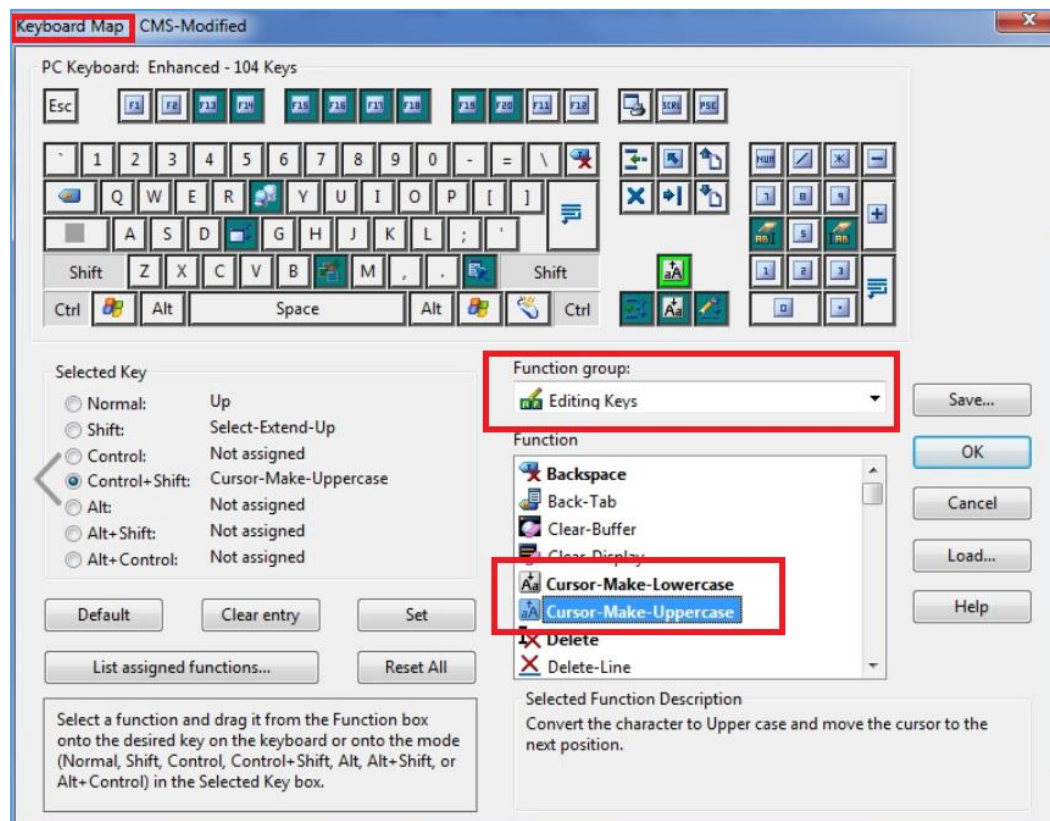
JIRA ID: CONN-3831

5.1.3 New OpenSSL Version

OpenSSL libraries have been updated to Version 1.0.2p.
For more information about the OpenSSL versions, refer to the OpenSSL Release Notes:

https://www.openssl.org/news/openssl-1.0.2-notes.html

JIRA ID: CONN-3886

5.2 New features in Connectivity 15.0.5 hot fixes

The following new features were added via hot fixes, after the release of Connectivity 15.0.5, and prior to completion of Connectivity 15.0.6 release. All the hot fixes are cumulative and included in the 15.0.6 release.

5.2.1 New feature in Hot Fix 27

The following feature was added in this hot fix.

JID	Description	Affects
CONN-3880	Added support for XVideo on multiple monitors even when the X application asks to use one video device only (one monitor).	Exceed

5.2.2 New feature in Hot Fix 24

The following new feature was added in this hot fix.

JID	Description	Affects
CONN-3723	**HTTP Proxy support in HostExplorer FTP** HostExplorer FTP now supports secure connections through an intermediate HTTP proxy. **To enable HTTP proxy support:** 1. Go to the **FTP Site Properties** dialog box. 2. At the **Firewall/Proxy** tab, under **Firewall Type**, select **HTTP Proxy**. 	HostExplorer

5.2.3 New feature in Hot Fix 22

The following new feature was added in this hot fix.

JID	Description	Affects
CONN-3858	HostExplorer can now cache the SSL/TLS user certificate, and then reuse it for future connections. This user certificate is selected during the initial connection, when the user is presented with a prompt to select a user certificate. The feature applies to 3270, 5250, and VT connections. **New configuration option** The following option was added to the **User Authentication > User Certificate mode** section: • **Remember for future connections** **Workflow** 1. Under **User Authentication > User Certificate mode**, select the option **Remember for future connections**. 2. Select the user certificate during the initial connection, when prompted to do so. The certificate will be cashed and used for future connections (the prompt to select a user certificate will no longer be displayed). If the option **Remember for future connections** is disabled, the prompt to select a user certificate will be displayed as before.	HostExplorer

5.2.4 New feature in Hot Fix 12

This section describes the new feature added in Hot Fix 12.

JID	Description	Affects
CONN-3741	**Updated screen resizing in HostExplorer** When a HostExplorer 3270 session connects to the mainframe, the screen size used is 24x80. The user can submit jobs on one	HostExplorer

JID	Description	Affects
	of the available screens. Once a job is submitted from that screen, the HostExplorer screen is no longer resized to 43x80 to show unpopulated rows.	

5.3 Issues resolved in Connectivity 15.0.6

JIRA ID	Description	Affects
CONN-3876 CONN-3370 CONN-2949	Fixed an issue where `explorer.exe` would fail to launch after Windows 10 patches were applied. Exceed, HostExplorer and OpenText Secure Shell make use of Microsoft Active Setup to push Per-User settings when users log in. During Windows 10 upgrades these keys were removed. After reboot and login, Explorer attempted to launch Connection Central, but the installer was blocked. All the desktop icons, including the Connection Central, were missing and the Windows 10 desktop remains blank. Explorer is no longer blocked from starting in this situation. An automatic repair will take place when the User Files shortcut is launched.	Install/Migration
CONN-3867	Resolved a HostExplorer crash, which occurred when a user attempted to copy a string that contained more than 2080 characters and the following settings were selected: 1. Go to **Session Profile > Edit category > Cut/Copy page > Auto copy selected text**. 2. Select **Edit > Clipboard > Cell delimited > Separate at word**. Attempting to copy a string longer than 2080 characters, when the above settings were in effect, resulted in a crash. To avoid this issue, and buffer overruns, HostExplorer now uses dynamic memory allocation, instead of fixed array size of 2048.	HostExplorer
CONN-3769	Resolved an issue that caused the `hclintr.dll` to crash over a VPN connection.	Exceed

JIRA ID	Description	Affects
CONN-3672	Reverted a change made in version 11.5.4 (SP4) where the Shift and Caps Lock Actions were added to the Keyboard Mapping dialog. This change ensures that the Caps Lock and Shift key states are always correct in the Operator Information area (OIA).	HostExplorer
CONN-3234	Resolved an issue affecting the setting: **Hold Screen shortcuts**. The issue was observed in the following context: • Under **VT Session Properties > Keyboard > Advanced > Shortcuts**, clear the check box **Hold Screen shortcuts** (**Ctrl+S and Ctrl+Q)**. Despite the setting being disabled the **Ctrl+S** and **Ctrl+Q** shortcuts remain in effect. The issue has been resolved and the shortcuts will now be disabled correctly.	HostExplorer

5.4 Issues resolved in Connectivity 15.0.5 hot fixes

The following issues were resolved in hot fixes after the release of Connectivity 15.0.5, and prior to completion of Connectivity 15.0.6 release. All the hot fixes are cumulative and included in the 15.0.6 release.
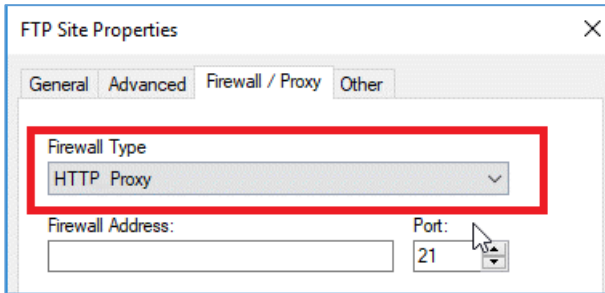
5.4.1 Issues resolved in Hot Fix 26

The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3788	Resolved the issue that caused HostExplorer 3270 session to become unresponsive when the user chose the following configuration: • Terminal > 3270 > 3270 model: custom model: (24x100) This fix was partially completed in HF 16. This fix addresses `hepar3270.dll`.	HostExplorer

5.4.2 Issues resolved in Hot Fix 25

The following issue was resolved in this hot fix.

JID	Description	Affects

CONN-3875	An FTP profile could not be created in Connection Central. Instead, the following error was displayed:
	
	`Profile\ftp.test.test.hfs`
	`The system cannot find the path specified.`
	
	The issue has been resolved, and the path is now detected successfully.
		Host Explorer

5.4.3 Issues resolved in Hot Fix 23

The following issue was resolved in Hot Fix 23

JID	Description	Affects
CONN-3788	Resolved the issue that caused HostExplorer 3270 session to become unresponsive when the user chose the following configuration: • Terminal > 3270 > 3270 Custom model: (24x100) This fix was partially completed in HF 16. The new fix addresses `hepar3270.dll`.	HostExplorer

5.4.4 Issues resolved in Hot Fix 21

The following issue was resolved in this hot fix.
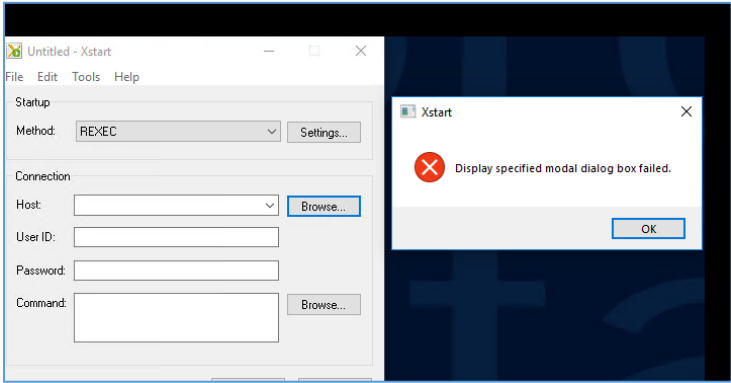
The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3839	Replaced all modal dialog calls in Xstart with direct Windows API calls (the product no longer uses the `hclwutil.dll`).	Exceed

JID	Description	Affects
	The fix further addresses the issue that may cause the Setting button in Xstart dialog not to work in a particular environment.	
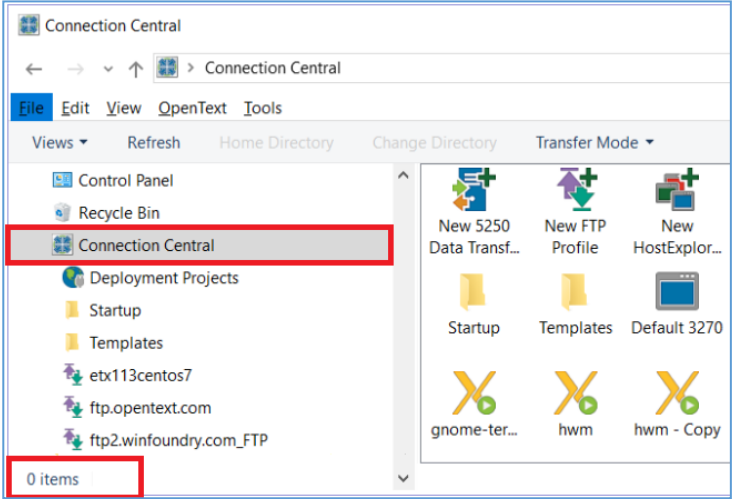
5.4.5 Issues resolved in Hot Fix 20

The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3839	Connectivity now provides more information about the issue that may cause the Setting button in Xstart dialog not to work in a particular environment. The issue was detected on Windows 10, with Exceed SP 5 (x64) and Secure Shell SP5 (x64). Also, when either Browse button was clicked the following error message was displayed: `Display specified modal dialog box failed.` HF20 adds information from the Windows `getLastError()` function when a modal dialog cannot be created. It is displayed as an additional line in the error message box. HF20 works identically for the Settings button and both Browse buttons.	Exceed

5.4.6 Issues resolved in Hot Fix 19

The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3759	Resolved the following issue, noticed under Windows 10: • Connection Central does not accurately show the number of items it contains, Instead, the number of items is reported as 0 (in the lower left hand corner of the window). 	HostExplorer

5.4.7 Issues resolved in Hot Fix 18

The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3834	Resolved the following issue:	HostExplorer

JID	Description	Affects
	• Unable to select text using the Shift + Cursor keys with Service Pack 5.	

5.4.8 Issues resolved in Hot Fix 17
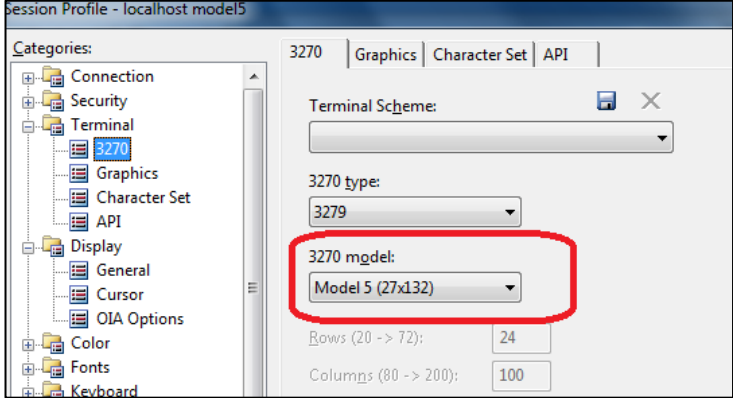
The following issue was resolved in this hot fix.

JID	Description	Affects
CONN-3812	Resolved some display issues when changing the number of columns.	HostExplorer

5.4.9 Issues resolved in Hot Fix 16

The following issue was resolved in Hot Fix 16.

JID	Description	Affects
CONN-3788	Resolved the following issue: • HostExplorer 3270 session becomes unresponsive when the user chooses the following configuration:	HostExplorer

JID	Description	Affects
	○ Terminal > 3270 > 3270 model: Model 5 (27x132).	

5.4.10 Issues resolved in Hot Fix 15

The following issue was resolved in Hot Fix 15.

JID	Description	Affects
CONN-3808	Resolved usability issues observed when the HostExplorer Keyboard Mapping dialog box was used in conjunction with JAWS® For Windows (a computer screen reader for people who are blind and visually impaired). It is expected that when a key is clicked in the Key Mapping dialog box, it is announced audibly and correctly. Some keys on the keyboard map were not audible or announced correctly (for example, this was noticed with the numeric keypad keys, Function keys, as well as the Page up, Delete, or End Page keys). The issues were detected with various keyboard layouts. For example, these keyboard layouts were chosen: • Enhanced 105 keys • Dec LK 450 keyboard	HostExplorer

JID	Description	Affects
	Example: When the user selects keys other than the typical keys (e.g., Shift), and then Home, Page up, Delete, or End Page keys, JAWS announced some graphics code.	
CONN-3779	Resolved other usability issues observed when the HostExplorer Keyboard Mapping dialog box was used in conjunction with JAWS® For Windows (a computer screen reader for people who are blind and visually impaired). Some of the keys on the keyboard map were not audible or announced correctly. The following issues were addressed: • Clicking on the function keys F1—F12, and all the numeric keypad keys, did not produce the expected sound (instead of announcing the key name, the screen reader mentioned some graphics code). • Clicking on some of the function keys (F1—F12), mapped to any other dialog, did not produce the sound with the mapped dialog name (no information related to the mapped dialog was announced; instead, some graphics code was mentioned). • Clicking on some keys did not produce a complete audible description (only the word "button" was announced, but it was not indicated which one). • Clicking on some keys produced an incorrect audible description. E.g., the Return key was interpreted as a numeric key.	HostExplorer
CONN-3776	Resolved a usability issue that affected how HostExplorer menus were shown when Windows 10 was switched to a High Contrast setting. Some menus became unreadable. The issue was observed in the following context: ▪ Press ALT+SHIFT+PRINT to switch Windows 10 to a High Contrast setting. As a result, some menus become unreadable. ▪ High Contrast Black—HostExplorer pull down menus are shown as white on white.	HostExplorer

JID	Description	Affects
	▪ High Contrast 2— HostExplorer pull down menus are shown in light colors on white background, whereas the Global Functions are shown as partially black on a dark background. **Example:** 	

5.4.11 Issues resolved in Hot Fix 14

This section lists the issues initially resolved in Hot Fix 14.

JID	Description	Affected Component(s)
CONN-3772	Resolved an issue causing OpenGL windows using Direct Rendering to flicker or blank on XConfigureWindow().	Exceed

5.4.12 Issues resolved in Hot Fix 13

This section lists the issues initially resolved in Hot Fix 13.

JID	Description	Affected Component(s)
CONN-3749	Resolved the following Exceed XDK issue:	hclglx.dll

JID	Description	Affected Component(s)
	▪ When the `TOpenGLFont` call is used at startup, the custom applications hangs. Several `glXUseXFont()`-related fixes were missing from `hclglx.dll`, which has since been updated.	

5.4.13 Issues resolved in Hot Fix 10

This section lists the issues initially resolved in Hot Fix 10.

JID	Description	Affected Component(s)
CONN-3747	Resolved an issue that could cause Exceed to crash if **BackingStores** was set to **Always**.	Exceed

5.4.14 Issues resolved in Hot Fix 9

This section lists the issues initially resolved in Hot Fix 9.

JID	Description	Affected
CONN-3718	Resolved two intermittent HostExplorer issues, which were observed in the following context: ▪ Multiple HostExplorer sessions were running with the same profile -and- ▪ The user selected Exit All, from the File menu. **Issue 1** An error message may be displayed:	HostExplorer

JID	Description	Affected
| | ```
The process cannot access the file
because it is being used by another
process.
```<br><br>This happens when there is a race condition while accessing the `.hep` file from multiple sessions (timing issue, not persistent).<br><br>**Issue 2**<br><br>A crash may occur. This happens when the user clicks any menu item on the terminal window that is about to be terminated (timing issue, not persistent). | |

5.4.15 Issues resolved in Hot Fix 8

This section lists the issues initially resolved in Hot Fix 8.

JID	Description	Affected
CONN-3731	Resolved an issue that caused the `scp2.exe` to crash when a single file was copied. The issue was observed in the following observed: ▪ From a command prompt run `scp2.exe -B [file name] [user]#[user@host: [target dir]`	OpenText Connectivity Secure Shell

5.4.16 Issues resolved in Hot Fix 7

This section lists the issues initially resolved in Hot Fix 7.

JID	Description	Affected
CONN-3730	Resolved the following HostExplorer issue:	HostExplorer

JID	Description	Affected
	▪ During VT Session the column change request from host was not being honored.	

5.4.17 Issues resolved in Hot Fix 6

This section lists the issues initially resolved in Hot Fix 6.

JID	Description	Affected
CONN-3720	Resolved a HostExplorer FTP profile issue—the system could not find the path where the user wanted to save the profile. When caching the location of the current USERDIR the file mapping used for the cache could fail, which resulted in incorrect paths returned. The issue has been fixed. HostExplorer FTP profiles may now be saved to the specified location.	HostExplorer

5.4.18 Issues resolved in Hot Fix 4

This section lists the issues initially resolved in Hot Fix 4.

JID	Description	Affected
CONN-3727	Resolved a crash issue related to HostExplorer session connections established via a dial-up modem. The issue happened when the user invoked a profile before a previous session was closed completely.	HostExplorer

5.4.19 Issues resolved in Hot Fix 3

This section lists the issues initially resolved in Hot Fix 3.

JID	Description	Affected Component(s)
CONN-3716	Resolved a HostExplorer crash issue that occurred in in the following context: 1. Run Exceed and HostExplorer sessions, in a multiple monitor configuration, with a laptop. 2. Maximize the HostExplorer window. HostExplorer crashes.	HostExplorer

5.4.20 Issues resolved in Hot Fix 2

This section lists the issues initially resolved in Hot Fix 2.

JID	Description	Affected Component(s)

CONN-3590	Resolved the following issue affecting Exceed 15.0:
	
	▪ User connected the Wacom tablet to Windows 10 as a mouse input device, and then used the screen as well as the stylus to control the mouse pointer on Windows 10. When the user established a session with Linux using XDMCP, the stylus on the Wacom tablet did not function in the Exceed session but worked outside of it on Windows 10.
	
	This occurred because the valuators in XInput devices were not correctly specified. Not all X applications worked with the XInput extension.
	
	To fix the issue set the following:
	
	Under:
	
	`HK_LOCAL_MACHINE\Software\Hummingbird\Connectivity\15.00\Exceed\XServer:`
	
	`XinputWinTablet (DWORD) 0`
		Exceed

JID	Description	Affected Component(s)

	To restore the original behavior:
	
	Remove the flag completely or set it to 1 as follows:
	
	`HK_LOCAL_MACHINE\Software\Hummingbird\Connectivity\15.00\Exceed\XServer:`
	
	`XinputWinTablet (DWORD) 1`
	
	Note: When the flag is set to 1, this forces a stylus to generate the XInput extension events for X applications that are Xinput aware (especially when they run in the Exceed passive mode). That is, by default, Exceed allows the Windows tablet stylus to act as the Windows native pointer device (so that tablets in Exceed windows behave as in other Windows applications).	

5.4.21 Issues resolved in Hot Fix 1

This section lists the issues initially resolved in Hot Fix 1.

JID	Description	Affected Component(s)
CONN-3426	Resolved the following issue, detected during an upgrade and affecting Windows Explorer: • Windows Explorer does not restart if any Connectivity 15 product is installed. For instance, Exceed is upgraded from V14 to V15, using System Center Configuration Management (SCCM). This hot fix disables the MSI integration with Restart Manager, and thus prevents the Windows Explorer shutdown, for upgrades and installations performed using SCCM.	Installer

JID	Description	Affected Component(s)
	This hot fix applies to all Version 15 OpenText Connectivity products. It does not apply to OpenText Exceed 3D and 3Dx64.	

6 Connectivity 15.0.5 (Service Pack 5)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.5, also known as Version 15.0, Service Pack 5.

6.1 New features and enhancements in Connectivity 15.0.5

This section lists the new features and enhancements implemented in Connectivity 15.0.5 (Service Pack 5).

6.1.1 Windows 10 certification (Exceed, HostExplorer and Secure Shell)

The following Connectivity products have been certified as *Compatible with Windows 10*:

- OpenText Exceed
- OpenText HostExplorer
- OpenText Secure Shell

Version 15.0 of the above products is also certified as *Compatible with Windows 7 and Windows 8*.

JIRA ID: CONN-3443

6.1.2 New OpenSSL Version

OpenSSL libraries have been updated from version 1.0.2k to 1.0.2n. For a list of high level changes, refer to the OpenSSL Release Notes:

https://www.openssl.org/news/openssl-1.0.2-notes.html

JIRA ID: CONN-3520

6.1.3 Forcing validation of server certificates for all HostExplorer profiles

HostExplorer now supports a new option to always verify the server certificate when establishing an SSL connection. To enable this option, you must add a new flag to the to *HostEx.ini* file. This flag overrides individual profile settings, ensuring that the host certificate will always be verified regardless of individual profile settings.

To force validation of server certificate for all HE profiles:

1. Using a text editor, open the `HostEx.ini` file from the following locations:

   Per User Installation:

   `%AppData%\Hummingbird\Connectivity\15.00\HostExplorer\HostEx.ini`

   Shared User Directory installation:

   `%ProgramData%\Hummingbird\Connectivity\15.00\Shared\HostExplorer\HostEx.ini`

2. Add the following flag:

   ```
   [Force Verify Certificate]
   HDFUBValue=1
   ```

3. Save the file.

   Note: Setting the `[Force Verify Certificate]` flag will select and disable the following option in all HostExplorer 3270, 5250 and VT profiles:

   Security > SSL / TLS > Verify Server Certificate

JIRA ID: CONN-3470

6.1.4 Setting the Minimum Encryption Level for FTP/SSL profiles

Connection Central now supports a global FTP option to specify the minimum encryption level when establishing FTPS or SFTP connections. You may choose among the following options:

- SSL Version 3
- TLS Version 1
- TLS Version 1.1
- TLS Version 1.2

Note: SSL Version 2 may be added to the menu, by enabling this protocol in the `HEshell.ini` file.

The Minimum Encryption Level can be set in the FTP General settings in Connection Central.

To select the Minimum Encryption Level:

1. Open **Connection Central**, press **Alt** to bring up the menu bar, select **View > Connection Central Options**, and then click the **FTP General** tab.
2. From the **Minimum Encryption Level** menu, select the preferred option. The default menu is shown below:
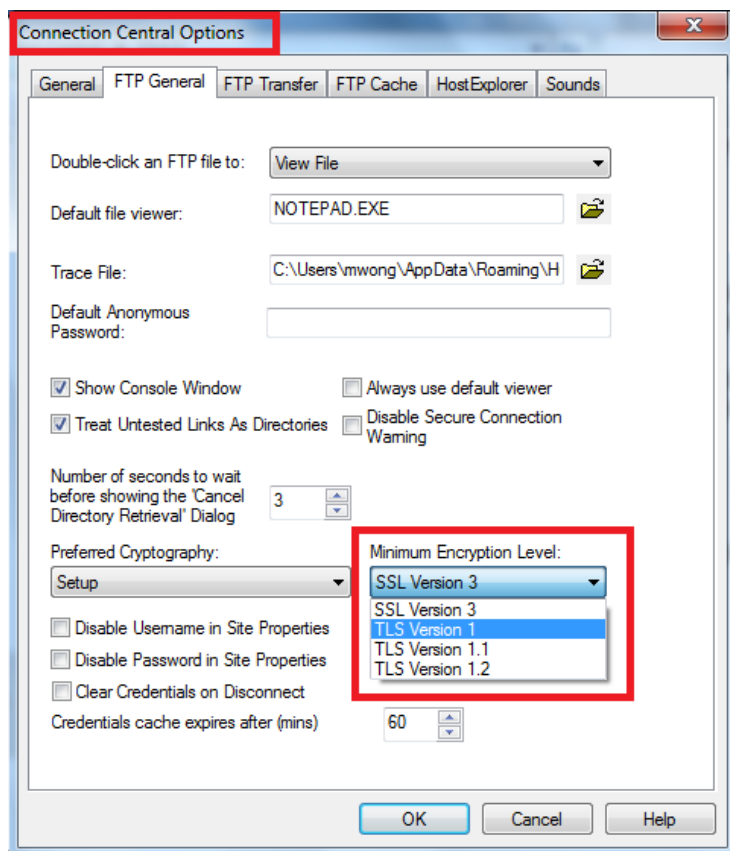
What happens when you select an option from the Minimum Encryption Level menu?

The Minimum Encryption Level determines which encryption levels are available in the SSL settings for FTP – SSL / TLS profiles. This option also enforces the minimum encryption level at runtime, so that an older FTP profile that specifies a lower encryption level will be overridden by the global setting.

JIRA ID: CONN-3454

6.1.5 High DPI monitor support for Exceed, HostExplorer, Secure Shell

Exceed, HostExplorer and OpenText Secure Shell now support high DPI monitors, so users will no longer see blurry text and graphics in application windows (Xstart, Xconfig, HostExplorer sessions, SSH tunnel configuration, etc.)

Connectivity 15.0.5 supports the following high-DPI modes:

- Per-Monitor (V1) for Windows 7 and 8
- Per-Monitor (V2) for Windows 10

For a description of Per-Monitor (V1) and Per-Monitor (V2) DPI modes, please refer to this Microsoft support article.

JIRA ID: CONN-3495

6.1.6 New default and maximum values of the Default window size

The following changes have been made to the Tunnel Profile settings in Secure Shell:

- The *Default window size* has been increased from 4KB to 128KB
- The maximum value for the *Default window size* in SSH tunnel settings has increased from 64KB to 4MB. Increasing this setting can result in much faster performance on modern, high-speed networks.

To modify the Default Window size:

1. Start OpenText Secure Shell Console, and then perform the required steps, depending on the profile type:

For…	Do this…
New profile	From the File menu, select New Tunnel, and then click Properties. The Tunnel Profile window is displayed.
Existing profile	Right-click the profile, and then click Properties. The Tunnel Profile window is displayed.

2. Under **Connection** category, display the **Advanced** tab.
3. Under **Default Window Size**, enter the preferred value.

4. Click OK.
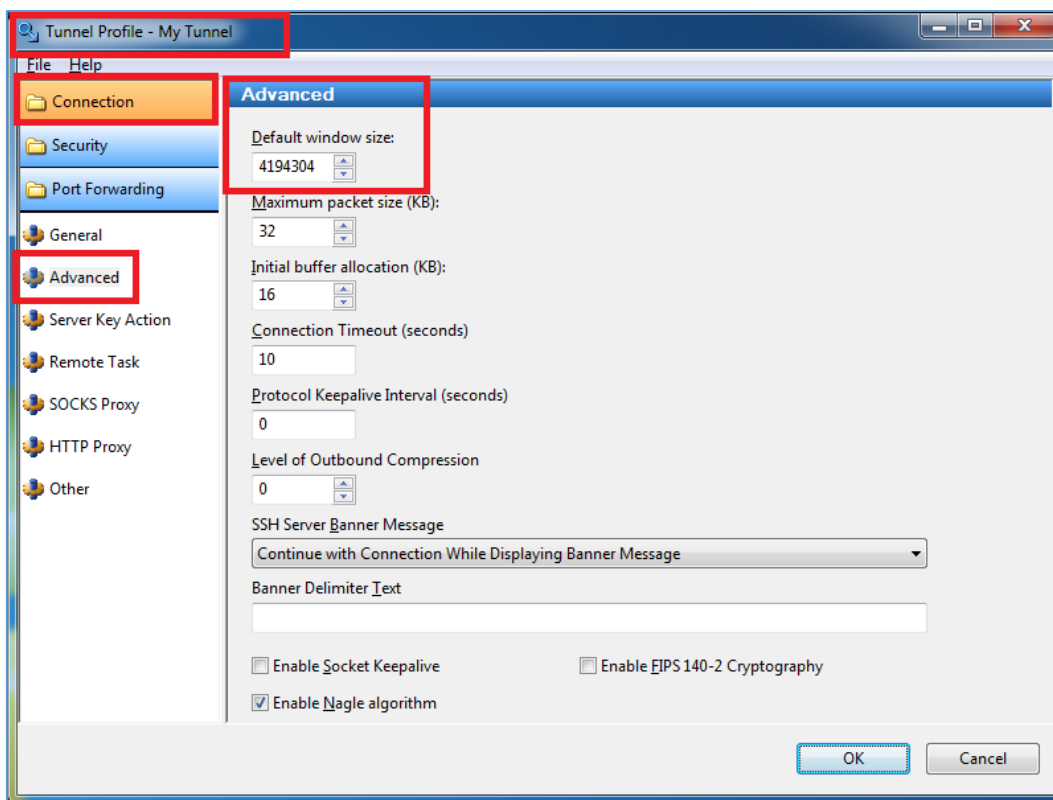
JIRA ID: CONN-3295; CONN-3506

6.1.7   New OIA options for displaying the Caps Lock/Shift/Num Lock indicators

New profile options have been added, enabling you to display the Num Lock, Caps Lock and Shift status in the Operator Information Area (3270 and 5250 profiles), or Status Line (VT profiles).

These options are available under **Display > OIA Options** (3270 and 5250), or **Display > Status Line** (VT). For further details, see the product documentation.

If the options are enabled, activating the Caps Lock, Num Lock or Shift keys will display a visual indicator in the OIA or status line.

New OIA option	Visual indicator in the OIA/Status Line
Display Caps Lock indicator	A

New OIA option	Visual indicator in the OIA/Status Line
Display Num Lock indicator	#
Display Shift indicator	↑
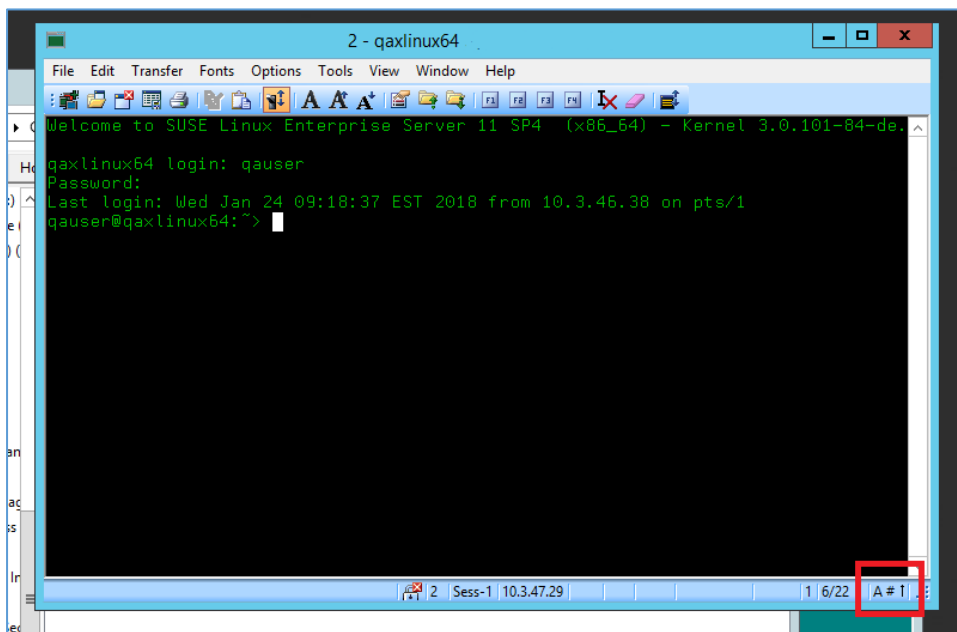
JIRA ID: CONN-870

6.1.8   Outlining the HostExplorer workspace

The HostExplorer workspace may now be outlined with a border. New profile options enable you to control the colour and dot pattern of the workspace border.

Note: By default, the border colour is set to **White**, and the border pattern is **Solid**.

The new options are available under **Session Window > Workspace** in the profile settings.

For further details, see the product documentation.
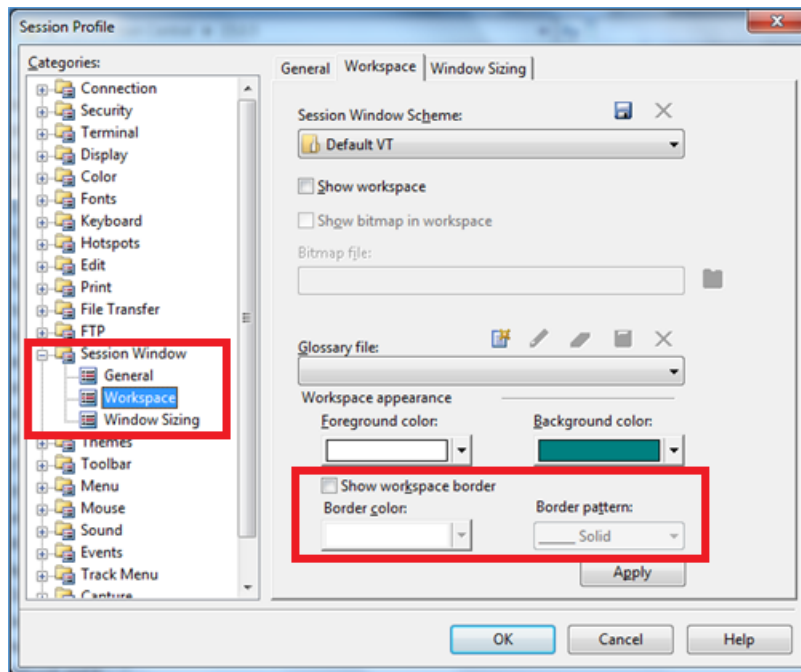
JIRA ID: CONN-2774

6.1.9 Specifying a directory for the Macro-List function

HostExplorer allows you to add the Macro-List function to a toolbar or menu. When the user clicks the Macro-List item on the toolbar, a list of the available macros is displayed. Previously, this list contained only the macros from the default directory.

Users can now specify a different directory from which HostExplorer obtains the macros.

To specify a directory for the Macro-List function:

1. Go to **Options > Global Options > Advanced tab > Run Macro from Path**.
2. Enter the path of the directory that contains the macros you want to add to the **Macro-List** menu.

To add the Macro-List function to the toolbar and run a macro:

1. Go to **Tools > Customize Toolbar > Functions** tab.
2. Drag the **Macro-List** item to the toolbar at the top.
3. Click the **Macro-List** item on the toolbar. This displays a dropdown list of macros you can run.

4. Select a macro of your choice, and run it.
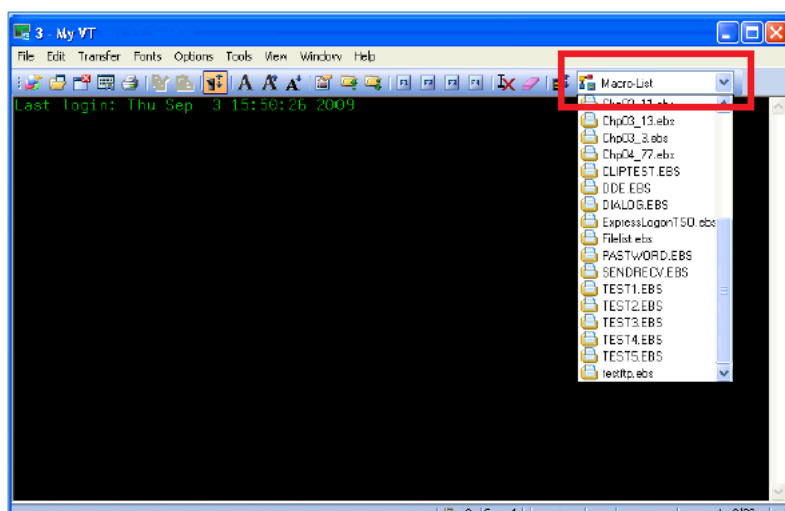
JIRA ID: CONN-170

6.2 New features in Connectivity 15.0.4 hot fixes

The following new features were added via hot fixes, after the release of Connectivity 15.0.4, and prior to completion of Connectivity 15.0.5 release. All the hot fixes are cumulative and included in the 15.0.5 release.

6.2.1 New feature in Hot Fix 5

This section lists the features and/or enhancements added in Connectivity 15.0.4 Hot Fix 5.

JIRA ID	Description	Affected Component(s)
CONN-3449	The following functionality has been introduced: • TLS 1.2 and TLS 1.1 support for the Classic FTP application. • The ability to accept the highest TLS version suggested by the server. For this functionality to work, the user needs to select the following option from the Security menu, in the Open Connection dialog box:	Classic FTP
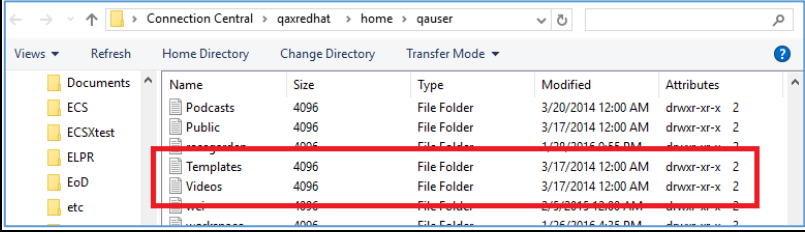
JIRA ID	Description	Affected Component(s)
	o Highest TLS	

6.2.2 New feature in Hot Fix 4

This section lists the features and/or enhancements added in Connectivity 15.0.4 Hot Fix 4.

JIRA ID	Description	Affected Component(s)

CONN-3428	Restored the Extend / HCL-DOS-Access functionality, which was removed in Exceed 15. The following flags support this functionality:
	
	`HCLDOSAccess=1 (DWORD)`
	
	-and-
	
	`HCLDOSAccessPassword=password (String)`
	
	Example:
	
	`[HKEY_LOCAL_MACHINE\SOFTWARE\Hummingbird\Connectivity\15.00\Exceed\Xserver]`
	`"HCLDOSAccess"=dword: 0x00000001 (1)`
	`"HCLDOSAccessPassword"="password"`
		Exceed

6.3 Issues resolved in Connectivity 15.0.5

JIRA ID	Description	Affected Component(s)
CONN-3588	Resolved an issue where HostExplorer FTP was showing file icons instead of folder icons in Windows 10. 	HostExplorer FTP
CONN-3573	Resolved the following issue: • When Xstart was initially launched, the following error was displayed: `Failed to CoCreateInstance Secure Shell Manager.` The second attempt to launch was successful. The issue occurred during the initial login only.	Exceed
CONN-3549	Resolved the following issue: • When the `GetSessionWindow` method was used, the following error message appeared: `Object method returned an unsupported data type` The issue was caused by mismatched data types (a 64-bit data type in the HostExplorer component and 32-bit in the `ebasic` component).	HostExplorer
CONN-3528	Resolved an issue where local X applications using OpenGL would crash when destroying a `GLXContext` if the context was no longer current.	Exceed 3D

JIRA ID	Description	Affected Component(s)
CONN-3437	Resolved a font issue detected with Connectivity 15.0.4. The font size displayed in a customer application was too large.	Exceed
CONN-3420	Resolved the following issue detected in HostExplorer, after migration from version 14 to version 15: • The cursor position is unexpectedly shifted to a different field, after a macro is executed. The initial cursor position was displayed correctly, in a non-editable field. After the macro was executed, and the next record was presented, the cursor was not displayed in the initial position but was positioned in the next editable field.	HostExplorer

CONN-3283	Provided a workaround in Exceed 15, where the right edge of the Cashbox application window was not visible.
	
	To apply the workaround:
	
	1. Open the following location in the Windows registry:
	
	`HKEY_LOCAL_MACHINE\SOFTWARE\Hummingbird\Connectivity\15.00\Exceed\Xserver`
	
	-or-
	
	`HKEY_CURRENT_USER\Software\Hummingbird\Connectivity\15.00\Exceed\XServer`
	
	2. Set the `StartMaximize` flag as follows:
	
	`StartMaximize=(DWORD) 1`
	
	Note: This setting takes effect on a single monitor system only.
		Exceed

CONN-3062	Resolved the following security issue: Passwords entered interactively were cached, for a time period defined by the setting **Credentials cache expires after (mins), even** for the profiles that were configured not to contain them.	Connection Central

JIRA ID	Description	Affected Component(s)
	This local storage invalidated the purpose of creating a profile that required the end user to enter the password at run-time. Such passwords are no longer stored in a cache file.	

6.4 Issues resolved in Connectivity 15.0.4 hot fixes

The following issues were resolved in hot fixes after the release of Connectivity 15.0.4, and prior to completion of Connectivity 15.0.5 release. All the hot fixes are cumulative and included in the 15.0.5 release.

6.4.1 Issues resolved in Hot Fix 3

This section lists the issues initially resolved in Hot Fix 3.

JIRA ID	Description	Affected Component(s)
CONN-3182	Resolved a memory leak, observed with Exceed version 15 and the `HumShSrv.exe` process, which consumed high memory and thus caused the computer to freeze.	`HumTunnel.dll`

6.4.2 Issues resolved in Hot Fix 2

This section lists the issues initially resolved in Hot Fix 2.

JIRA ID	Description	Affected Component(s)
CONN-3412	Resolved a drawing issue observed with Exceed Version 15: • Content was not refreshed correctly when the option `backingStore` was set to `Always`. Some areas were not redrawn as expected (gray areas were displayed instead).	Exceed

JIRA ID	Description	Affected Component(s)
	The issue was not caused by Exceed, but a behavior of 3rd party application(s). The hot fix provides a workaround for this issue.	

6.4.3 Issues resolved in Hot Fix 1

This section lists the issues initially resolved in Hot Fix 1.

JIRA ID	Description	Affected Component(s)
CONN-3387	**Resolved the following issue:** Left mouse button is not released, after the mouse pointer is moved out of the X window. The issue occurred in a multi-monitor environment, with Exceed configured to run in Single Window Mode. The issue was detected after an upgrade from Exceed 7 on Windows 7 to Exceed 15 on Windows 10. The issue was detected in the following context: 1. Launch Gnome-session, and then open a terminal or text editor. 2. Select some text without releasing the left mouse button. Then move the cursor out of the Exceed main window. 3. Release the left mouse button (even type in the text editor window). 4. Return to Exceed main window. The selection keeps updating, as if the left mouse button is still pressed.	Exceed
CONN-3393	Resolved a drawing issue observed with Exceed Version 15, in Multiple Window Mode:	Exceed

JIRA ID	Description	Affected Component(s)
	• Text from the menu remained on the screen when the user switched to the next screen. The issue was related to the update of unmapped `backingStore=Always` windows. The hot fix ensures that, if a window is not realized, it is not automatically painted onto its parents.	

6.5 Known issues in Connectivity 15.0.5

JIRA ID	Known issue
CONN-3668	The following known issue was detected in SP5 but may exist in preceding releases: • A Web Deployment project that uses the option **Ensure only FIPS Validated Cryptography is used** fails to load OpenSSL DLLs for a VT deployment. To deploy the project properly, you must reboot the machine and log into Windows again. The issue was detected in the following context. 1. Install Exceed/Secure Shell on a local machine. During the installation process, make sure that the following option is selected in the **Setup Type** window: **Ensure only FIPS Validated Cryptography is used**. 2. Create a VT profile that has SSL security enabled, and then create a deployment project for this profile. 3. Deploy it on a client machine. 4. The following message is displayed: `Failed to load OpenSSL DLLs`
CONN-2774	The new Workspace Border options are not added during migration. If you have used the Files and Settings Transfer Wizard to migrate an earlier version of Exceed or HostExplorer to version 15, the Workspace border options will not appear in HostExplorer session properties.

JIRA ID	Known issue
	Background: The Default `User\HostExplorer\Session Properties\Default xxx.spX` files will be updated, however, it is possible that during migration or after applying the patch the file contents of the users' Session Properties will have been modified by them, and consequently will not be updated. **Workaround: The users should** copy the `Default xxx.spX` files into their own user directory, and thus overwrite any changes they may have made.

7 Connectivity 15.0.4 (Service Pack 4)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.4, also known as Version 15.0, Service Pack 4.

7.1 New features and enhancements in Connectivity 15.0.4

This section lists the new features implemented in this service pack.

7.1.1 Proprietary files replace the `.fon` files, for increased security

During installation, Exceed now provides proprietary `.wff` font files, instead of the `.fon` files.

Note: Windows 10 prevents `.FON` files from being loaded from locations outside the Windows Font folder. The existence of the proprietary files ensures that Exceed 15 fonts work as expected on Windows 10 and that font security issues do not occur. Previously existing `.FON` files are replaced with `.wff` font files, and the font database files `(.fdb)` are updated accordingly.

Note: Some outdated `.fon` files have been removed but not replaced, due to being obsolete.

The following sections lists both the removed files, and the new `.wff` files added to the `extra` directory.

7.1.1.1   Files that have been removed but not replaced

Please see the table below, for a full list of outdated and removed font files, which have not been replaced by the equivalent `.wff` files.

Type of the outdated `.fon` files	Removed from this directory…	Name of the removed and not replaced `.fon` file(s)
Custom font files, created by OpenText	chinese	cns11643-1.100-100.fon cns11643-1.120-100.fon cns11643-1.140-100.fon cns11643-1.160-100.fon cns11643-1.200-100.fon cns11643-1-120.fon cns11643-1-140.fon cns11643-1-160.fon cns11643-1-200.fon cns11643-1-240.fon gb18030.2000--120.fon gb18030.2000--140.fon gb18030.2000--160.fon gb18030.2000--200.fon

Type of the outdated `.fon` files	Removed from this directory…	Name of the removed and not replaced `.fon` file(s)
		gb18030.2000--240.fon gb18030.2000-0.100-100.fon gb18030.2000-0.120-100.fon gb18030.2000-0.140-100.fon gb18030.2000-0.160-100.fon gb18030.2000-0.200-100.fon gbk-0.100-100.fon gbk-0.120-100.fon gbk-0.140-100.fon gbk-0.160-100.fon gbk-0.200-100.fon gbk-0-120.fon gbk-0-140.fon gbk-0-160.fon gbk-0-200.fon gbk-0-240.fon
	extra	johab13p.fon
	korean	18x18ko-johab.fon
	TTF	batang.ttf dotum.ttf gulim.ttf hline.ttf luximb.ttf luximbi.ttf luximr.ttf luximri.ttf luxirb.ttf luxirbi.ttf luxirr.ttf luxirri.ttf luxisb.ttf luxisbi.ttf luxisr.ttf luxisri.ttf sazanami-gothic.ttf sazanami-mincho.ttf SyrCOMAdiabene.otf SyrCOMAntioch.otf

Type of the outdated `.fon` files	Removed from this directory…	Name of the removed and not replaced `.fon` file(s)
		SyrCOMBatnan.otf SyrCOMBatnanBold.otf SyrCOMCtesiphon.otf SyrCOMEdessa.otf SyrCOMJerusalem.otf SyrCOMJerusalemBold.otf SyrCOMJerusalemItalic.otf SyrCOMJerusalemOutline.otf SyrCOMKharput.otf SyrCOMMalankara.otf SyrCOMMardin.otf SyrCOMMardinBold.otf SyrCOMMidyat.otf SyrCOMNisibin.otf SyrCOMNisibinOutline.otf SyrCOMQenNeshrin.otf SyrCOMTalada.otf SyrCOMTurAbdin.otf SyrCOMUrhoy.otf SyrCOMUrhoyBold.otf uming.ttf Vera.ttf VeraBd.ttf VeraBI.ttf VeraIt.ttf VeraMoBd.ttf VeraMoBI.ttf VeraMoIt.ttf VeraMono.ttf VeraSe.ttf VeraSeBd.ttf
Other	misc	lookg10.fon lookg10b.fon

opentext™

7.1.1.2 Files added to the extra font directory

The following font files have been added to the extra directory:

```
10x20-iso8859-11.wff

10x20-iso8859-13.wff

10x20-iso8859-2.wff

10x20-iso8859-4.wff

10x20-iso8859-5.wff

10x20-iso8859-7.wff

10x20-iso8859-8.wff

10x20-iso8859-9.wff

12x13-iso8859-1.wff

12x13-iso8859-13.wff

12x13-iso8859-2.wff

12x13-iso8859-4.wff

12x13-iso8859-5.wff

12x13-iso8859-7.wff

12x13-iso8859-8.wff

12x13-iso8859-9.wff

18x18-iso8859-1.wff

18x18-iso8859-13.wff

18x18-iso8859-2.wff

18x18-iso8859-4.wff

18x18-iso8859-5.wff

18x18-iso8859-7.wff
```

```
18x18-iso8859-9.wff

6x13-iso8859-13.wff

6x13-iso8859-2.wff

6x13-iso8859-4.wff

6x13-iso8859-5.wff

6x13-iso8859-7.wff

6x13-iso8859-8.wff

6x13-iso8859-9.wff

6x13b-iso8859-13.wff

6x13b-iso8859-2.wff

6x13b-iso8859-4.wff

6x13b-iso8859-5.wff

6x13b-iso8859-7.wff

6x13b-iso8859-8.wff

6x13b-iso8859-9.wff

7x14-iso8859-11.wff

7x14-iso8859-13.wff

7x14-iso8859-2.wff

7x14-iso8859-4.wff

7x14-iso8859-5.wff

7x14-iso8859-7.wff

7x14-iso8859-8.wff

7x14-iso8859-9.wff

7x14b-iso8859-11.wff
```

```
7x14b-iso8859-13.wff

7x14b-iso8859-2.wff

7x14b-iso8859-4.wff

7x14b-iso8859-5.wff

7x14b-iso8859-7.wff

7x14b-iso8859-8.wff

7x14b-iso8859-9.wff

8x13-iso8859-11.wff

8x13-iso8859-13.wff

8x13-iso8859-2.wff

8x13-iso8859-4.wff

8x13-iso8859-5.wff

8x13-iso8859-7.wff

8x13-iso8859-8.wff

8x13-iso8859-9.wff

8x13b-iso8859-13.wff

8x13b-iso8859-4.wff

8x13b-iso8859-7.wff

8x13b-iso8859-8.wff

8x13b-iso8859-9.wff

9x15-iso8859-11.wff

9x15-iso8859-13.wff

9x15-iso8859-2.wff

9x15-iso8859-4.wff
```

```
9x15-iso8859-5.wff

9x15-iso8859-7.wff

9x15-iso8859-8.wff

9x15-iso8859-9.wff

9x15b-iso8859-11.wff

9x15b-iso8859-13.wff

9x15b-iso8859-2.wff

9x15b-iso8859-4.wff

9x15b-iso8859-5.wff

9x15b-iso8859-7.wff

9x15b-iso8859-8.wff

9x15b-iso8859-9.wff

9x18-iso8859-11.wff

9x18-iso8859-13.wff

9x18-iso8859-2.wff

9x18-iso8859-4.wff

9x18-iso8859-5.wff

9x18-iso8859-7.wff

9x18-iso8859-8.wff

9x18b-iso8859-13.wff

9x18b-iso8859-2.wff

9x18b-iso8859-4.wff

9x18b-iso8859-5.wff

9x18b-iso8859-7.wff
```

```
9x18b-iso8859-8.wff
```

JIRA ID: CONN-3329; CONN-3330

7.2 New features introduced in Connectivity 15.0.3 hot fixes

The following new features were added via hot fixes, after the release of Connectivity 15.0.3, and prior to completion of Connectivity 15.0.4 release.

JIRA ID	Description	Products affected
CONN-3273	This new command line parameter option has been added, for Connectivity Cleanup tool: `NFS14Only=1` The parameter ensures that the Connectivity Version 14 User folder content (not required by NFS Solo) is cleaned up, even though NFS Solo is installed. **Note:** The emptied folder may still exist after the cleanup, but will have no contents.	Exceed and HostExplorer **Note:** The hot fix is not to be included in NFS Solo Version 14 or any Connectivity Version 14 product.

7.3 Issues resolved in Connectivity 15.0.4

The following issues were resolved in Connectivity 15.0.4 release.

JIRA ID	Description	Affected Component(s)
CONN-3275	Resolved the following issue with the Application Close method: • Close Handler from a customer application did not work correctly, in Exceed. When installed, it failed to work if a popup menu was opened.	Exceed

7.4 Issues resolved in Connectivity 15.0.3 hot fixes

The following issues were resolved in hot fixes after the release of Connectivity 15.0.3, and prior to completion of Connectivity 15.0.4 release.

Note: All the hot fixes are cumulative and included in the 15.0.4 release. The exception for 15.0.4 is Hot Fix 6.

JIRA ID	Description	Affected Component(s)
Hot Fix 1		
CONN-3303	Resolved a key-mapping issue related to a physical German keyboard. All the keys generated by using AltGr produced no output.	Exceed
CONN-3302	Resolved a key-mapping issue related to a physical French keyboard. All the keys generated by using AltGr produced no output. For example, the key combination "AltGr + 0" displayed nothing on the screen, instead of the expected "@" character.	Exceed
Hot Fix 2		
CONN-3303	Resolved a key-mapping issue related to a physical German keyboard. All the keys generated by using AltGr produced no output.	Exceed
CONN-3302	Resolved a key-mapping issue related to a physical French keyboard. All the keys generated by using AltGr produced no output. For example, the key combination "AltGr + 0" displayed nothing on the screen, instead of the expected "@" character.	Exceed
Hot Fix 3		
CONN-3313	Resolved the following font related issue, affecting Exceed version 15.0.3:	Exceed

JIRA ID	Description	Affected Component(s)
	• Japanese font code `#xx40` could not be displayed.	
CONN-3303	Resolved a key-mapping issue related to a physical German keyboard. All the keys generated by using `AltGr` produced no output.	Exceed
CONN-3302	Resolved a key-mapping issue related to a physical French keyboard. All the keys generated by using `AltGr` produced no output. For example, the key combination `AltGr + 0` did not display the expected @ character (nor any other character).	Exceed
Hot Fix 4		
CONN-3315	Resolved the following issue: • Lowercase characters are displayed although the Caps Lock key is turned on The issue occurred in the following context: • The `XKeyboard` extension was disabled in the Xconfig file. The Caps Lock key was enabled before Exceed was started.	Exceed
CONN-3297	Fixed the behavior of `Root Mouse To X without Aero`, which previously caused drawing problems. I.e., the Xroot background was not refreshed and the fragments of the previous video information still remained on the screen.	Exceed
Hot Fix 7		

CONN-3319	Resolved the following issue:
	
	• During both import and export of settings the Files and Settings Wizard uses temporary files to
		`FSTWizard.exe`
		`humpufst.dll`
		`humtsfst.dll`

JIRA ID	Description	Affected Component(s)
	generate the database of settings used. The same temporary name could be used multiple times during this process and this could cause a problem if the file became locked (due to 3rd Party virus scanning or similar causes). To avoid this problem, all temporary files that are used now have unique names.	

8 Connectivity 15.0.3 (Service Pack 3)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.3, also known as Version 15.0, Service Pack 3.

8.1 New features and enhancements in Connectivity 15.0.3

This section lists the new features implemented in this service pack.

8.1.1 New OpenSSL Version

OpenSSL files have been updated from OpenSSL 1.0.1g to OpenSSL 1.0.2k.

JIRA ID: CONN-3159

8.1.2 Support for SHA-2 SSL certificates

The ActiveX and Java web deployment packages are now signed with SHA2 certificates. This ensures that web deployed projects can be used with modern browsers.

JIRA ID: CONN-3196

8.1.3 Connectivity Exceed XDK support for Visual Studio 2015

Connectivity Exceed XDK now provides support for MS Visual Studio 2015.

To build the X client using Visual Studio 2015 (VC++ 14) or a later version of MS Visual Studio, users of XDK should use `xlib-vc14.lib` and `legacy_stdio_definitions.lib,` instead of the original xlib.lib.

JIRA ID: CONN-3222

8.1.4 Ability to migrate Enable FIPS value for all the existing profiles

The HostExplorer user interface now migrates FIPS Only profile value from Connectivity Version 14 to Version 15. The value is reflected on the SSL/TLS session profile tab.

The migration of the existing profile values may affect the connection behavior (depending on the value of Default Cryptographic Mode setting in the Registry).

Note: Previously, Connectivity did not force profile states to be reflected in the user interface, upon migration to a new version. By design, it ensured that only the `FIPS only` version can be started, thus, the profile states were not taken into account.

8.1.4.1 Interaction of Enable FIPS Profile Flag and Security Registry Settings

The following variables determine what is displayed in the HostExplorer user interface, for the *Enable FIPS* option, as well as what happens when a connection is made:

1) Registry setting *Default Cryptographic Mode (1==Unrestricted, 2=FIPS, 3=Both)*
2) Registry settings pointing to the installed path of the OpenSSL libraries – two sets
       a. `FIPS libraries`
       b. `unrestricted libraries`
3) Within the HostExplorer profile, the *CryptographicMode* setting, which reflects the value in the user interface for the *Enable FIPS* check box.

There are two real-world scenarios, based on the Default Cryptographic Mode.

- When all libraries are present, you can use the Enable FIPS check box.
- When only the FIPS libraries are present, you cannot.

Default Cryptographic Mode	Libraries installed	User interface behaviour	Connection behaviour
1 or 2 or 3	All libraries present	The Enable FIPS option is enabled. Reflects the profile value.	Obeys the profile value (that is, FIPS or not)
2	Only FIPS libraries present	Enable FIPS is not enabled, and checked (i.e., FIPS ONLY) – if profile is saved, Cryptographic Mode set to 2 (FIPS)	Connects in FIPS mode only

JIRA ID: CONN-3201

8.1.5 Hiding the Paste Continue message box to speed up pasting of content

A new Global Option in HostExplorer allows you to hide a message box that is, by default, shown when content is pasted into a HostExplorer screen.

Previously, in HostExplorer, the user who copied more data than the number of fields available on screen, had to follow this procedure:

1. Paste the text. Clear the following message box, before being able to continue with pasting content:

   ```
   More text available in clipboard. Use Paste Continue.
   ```

2. Press ENTER, to position the cursor in the first field of the next input line.

   This procedure had to be repeated for each line of text to be pasted.

   To simplify pasting of data, the following HostExplorer Global Option has been added, to the Advanced group of options:

   ```
   Show Paste Continue Dialog
   ```
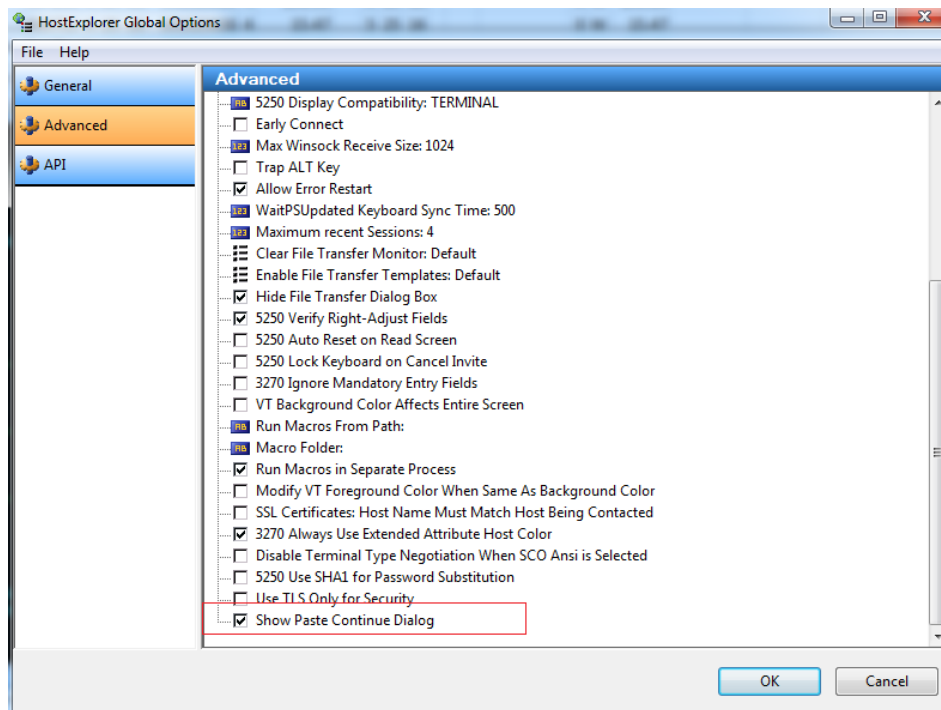
The option allows you to enable or disable the message box, which by default appears after a line is pasted into a HostExplorer screen. Hiding the dialog box will speed up pasting, by eliminating unnecessary steps of having to remove the dialog box prior to proceeding.

By default, the `Show Paste Continue Dialog` check box is selected. Clear this check box, and restart HostExplorer, to avoid showing the message box, when pasting data.

JIRA ID: CONN-3183

8.1.6 Displaying the 3270 application name in the HostExplorer window title

The 3270 session's application name can now be shown in the HostExplorer window title. The following new display variable has been added to the session profile, under `Session Window > General > Window title`:

`Host Application name (%x)`
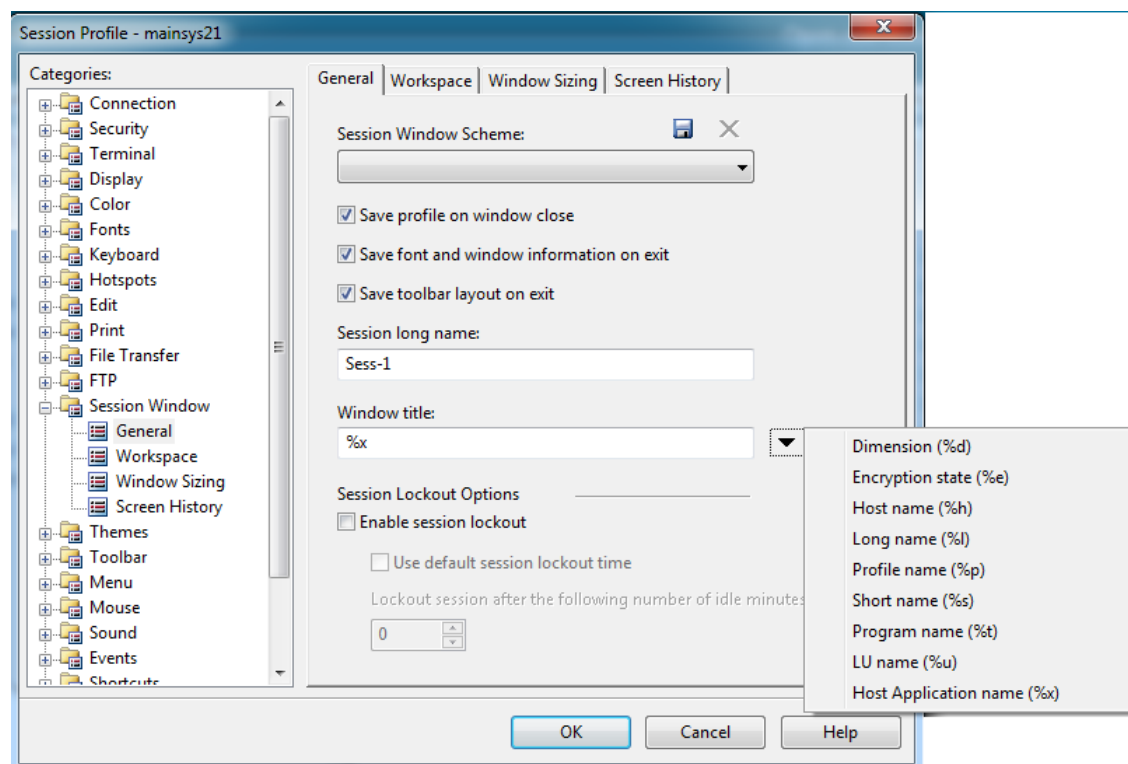
This option is available for 3270 only. It is not available for the 5250 or VT sessions.

JIRA ID: CONN-3181

8.1.7 Multiple X-selection support

Exceed now supports copying and pasting across multiple X selection buffers, without the need to modify Xconfig and restart the session.

When data is added to any X selection buffer (PRIMARY, SECONDARY, CLIPBOARD, CUT_BUFFER0, etc.) it is copied to the local Windows clipboard. Previously, only a single X selection buffer, specified by the `X Selection Associated With Edit Operations` property in Xconfig, was copied to the Windows clipboard.

Note: You may restore the previous behavior (only copy data to the Windows clipboard from the specified X selection). To do so, use the following flag:

```
XSelCopyUseOneBuffer=1 (DWORD)
```

Additionally, if `X Selection Associated With Edit Operations` is set to PRIMARY in Xconfig, the Windows clipboard data will be copied to both the PRIMARY and CLIPBOARD X selections, making the data available to applications that use either the PRIMARY or CLIPBOARD X selection.

Note: You may restore the previous behavior (only write to the PRIMARY X selection when PRIMARY is selected). To do so, set the following flag:

```
EraseXSelClipboard=0 (DWORD)
```

Note: Both flags can be added in two places:

- By modifying the `exceed.xcfg` configuration file.
- In the desktop Registry as follows:

    Only current user (both 32bit and 64bit):
    ```
    HKEY_CURRENT_USER\Software\Hummingbird\Connectivity\15.00\Exceed\XServer
    ```

    All users -- 64bit:
    ```
    HKEY_LOCAL_MACHINE\Software\Hummingbird\Connectivity\15.00\Exceed\XServer
    ```
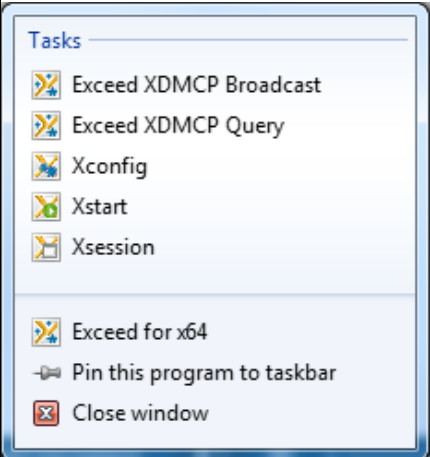
    All users -- 32bit
    ```
    HKEY_LOCAL_MACHINE\Software\Wow6432Node\Hummingbird\Connectivity\15.00\Exceed\XServer
    ```

JIRA ID: CONN-3124

8.1.8 Ability to hide items in the Exceed taskbar

As an Exceed user, you will find Exceed XDMCP Broadcast, Exceed XDMCP Query, Xconfig, Xstart and Xsession under Exceed Jump List.

Starting with Version 15.0.3, you can now disable all options in the Jump List, except the Xconfig one.

Jump lists	Details

Disabled	New feature in 15.0.3. To disable the jump lists, configure the following DWORD (32-bit) flag, in the desktop Registry:
	
	`NoJumpList`
	
	The flag should be added to
	
	`HKEY_CURRENT_USER\Software\Hummingbird\Connectivity\15.00\Exceed\XServer`
	
	`-or-`
	
	`HKEY_LOCAL_MACHINE\Software\Hummingbird\Connectivity\15.00\Exceed\XServer`

Enabled	Default condition. Right-click the Exceed icon on the task bar. Under Tasks, you can access the following list:
	
	`Exceed XDMCP Broadcast`
	`Exceed XDMCP Query`
	`Xconfig`
	`Xstart`
	`Xsession`
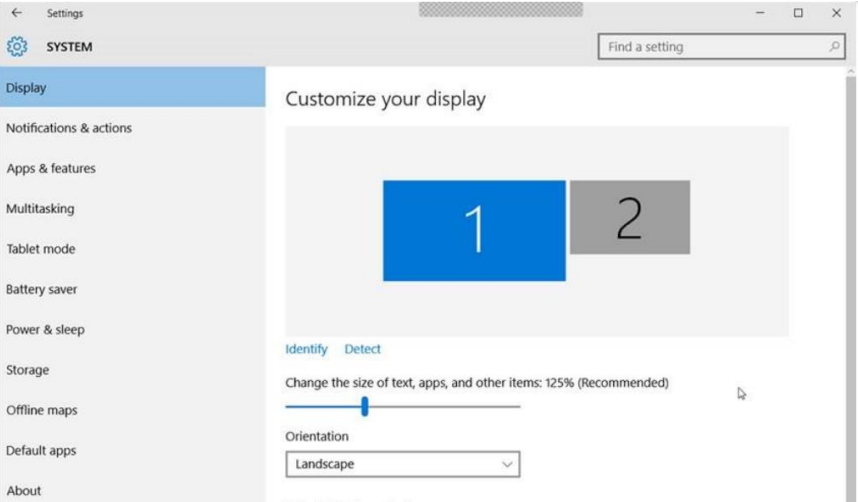
Jump lists	Details
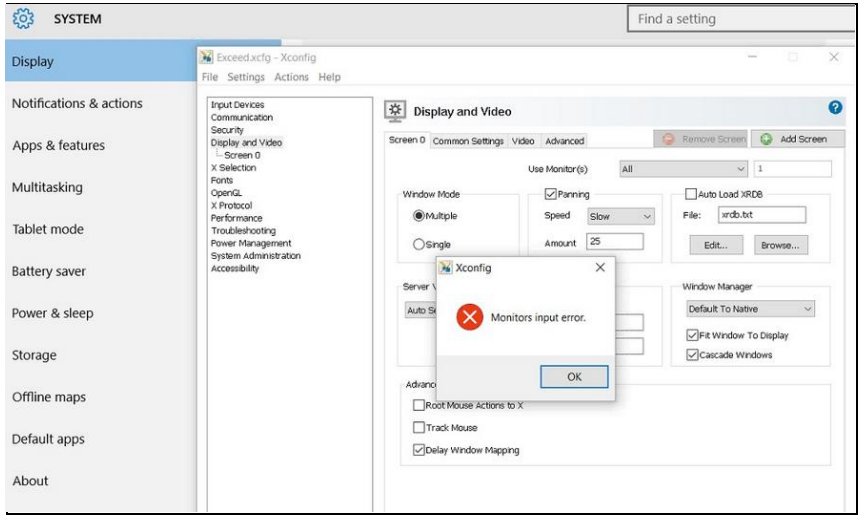
JIRA ID: CONN3121

8.1.9 New features added in 15.0.2 hot fixes

The following features were added in hot fixes issued after the release of Connectivity 15.0.2, and prior to completion of Connectivity 15.0.3 release. All the hot fixes are cumulative and included in the 15.0.3 release.
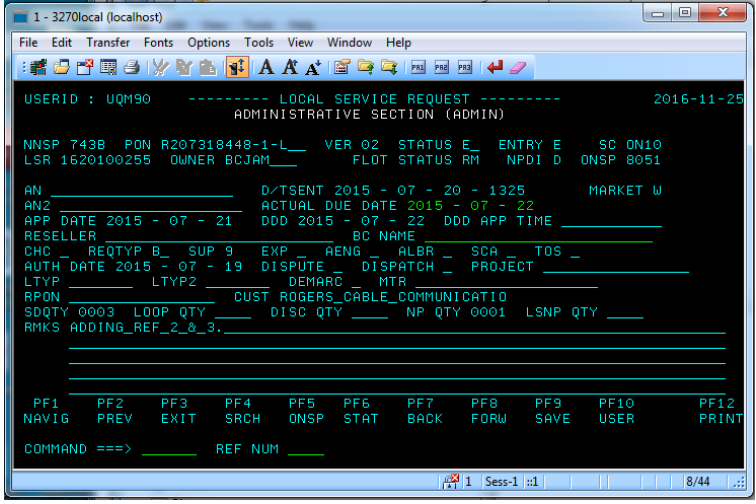
JIRA ID	Description	Affected Component(s)
Hot Fix 14		
CONN-3179	• In Hot Fix 14, the Motif Window Manager executable added the `ResizeOpaque` feature. This feature enables Motif Window Manager (MWM) to resize a window as a typical Windows OS window. MWM now relies on the following resource in the `Mwm` resource file: `Mwm*moveOpaque: True` **Note:** Both ResizeOpaque and MoveOpaque features may be used when `moveOpaque` is set to `True`.	Exceed XDK `mwm.exe`
Hot Fix 2		
CONN-3114	Resolved the following keyboard related issue: • When a keyboard, such as `French.kbf` keyboard, has keys serving as both a dead key and an AltGr generated key, the key with an AltGr state, such as `[` on the `French.kbf` keyboard, may not work properly. That is, if you press the `AltrGr + [` keys, the keyboard may not work as expected.	Exceed

JIRA ID	Description	Affected Component(s)
CONN-3092	Resolved an issue where Xconfig in Exceed could not be configured to work with multiple monitors. This monitor input error was related to Windows 10 display customization feature (which provides the ability to configure the size of text, apps and other items to be greater than 100%). Xconfig could not be configured to work with multiple monitors, if one monitor size was configured to display text, apps and other items to a size greater than 100%. Once a monitor was configured, for example, to 125%, Xconfig showed the `Monitor input error,` when the user tried to configure it to use the option: Use Monitor(s) - ALL: 	Connectivity Exceed / Xconfigs

JIRA ID	Description	Affected Component(s)

Hot Fix 1

JIRA ID	Description	Affected Component(s)
CONN-3083	OpenSSL files have been updated from OpenSSL 1.0.1g to OpenSSL 1.0.2h. These major changes are introduced in OpenSSL 1.0.2h: • Prevented padding Oracle in AES-NI CBC MAC check (CVE-2016-2107) • Fixed EVP_EncodeUpdate overflow (CVE-2016-2105) • Fixed EVP_EncryptUpdate overflow (CVE-2016-2106) • Prevented ASN.1 BIO excessive memory allocation (CVE-2016-2109) • EBCDIC over-read (CVE-2016-2176) • Modified behavior of ALPN, to invoke callback after SNI/servername callback, so that updates to the SSL_CTX affect ALPN. • Removed LOW from the DEFAULT cipher list. This removes singles DES from the default. • Ability to remove only the SSLv2 methods with the no-ssl2-method option.	Connectivity

8.2 Issues resolved in Connectivity 15.0.3

JIRA ID	Description	Affected Component(s)
CON-3258	Resolved the following issue: Exceed may crash.	Exceed

JIRA ID	Description	Affected Component(s)
CONN-3223	Resolved an issue where the user could not open a larger than display window, so a part of the window's content was not shown.	Exceed
CONN-3185	Resolved the following issue, involving the Shift and Control keys states. • User logged into the Product Data Manager (PDM) and highlighted multiple items by holding down the Shift key. Initially, the highlighting worked as expected, but subsequently, it failed. The issue was observed on Exceed v15 with the SP2 installed.	Exceed
CONN-3175	After a CICS application was migrated from the mainframe to Tuxedo / Linux environment, behavior changed. In the mainframe, the input fields on the screen were differentiated with specific colors, which facilitated data entry. The input fields were not emphasized in the same way, after the migration. The fields on the entire application screen were displayed as if they were input fields. The screens in HostExplorer are now shown as they were displayed in the mainframe environment. 	HostExplorer

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JIRA ID	Description	Affected Component(s)
CONN-3172 CONN-3100	Resolved an issue caused by new TLS Client Authentication specifications for version TLS 1.2, which differ from all the previous versions. Version 15.0.3 of Connectivity implements the new 1.2 specification and retains the earlier behavior for versions prior to TLS 1.2 (1.1, 1.0, and SSL).	HostExplorer HostExplorer FTP
CONN-3170	Resolved a display issue with Motif windows, where a dropdown submenu was not shown correctly but was partially covered by the parent menu from which it was invoked. The parent dropdown menu and its submenus are now displayed correctly.	Exceed
CONN-3168	Resolved a keyboard related issue where an X application was correctly started and functional, until the user pressed the Ctrl+Alt+Delete shortcut, to reach the Window screen. When the user pressed the Cancel button, the Ctrl key remained pressed for X. Thus, the X windows could not be moved around and repositioned.	Exceed

CONN-3163	Resolved a timing issue affecting key events within a macro. The user had to hit a key twice before the macro would work.
	
	To resolve the issue, added a `T<pause time in milliseconds>` between two key events defined in the macro vectors.
	
	Example:
	
	`[Macro.F9]`
	
	`Description="F9 as a macro of a, pause 10 seconds, b"`
	
	`0=1e T10000 30`
		Exceed

CONN-3076	Resolved an issue where remote application windows would appear on all Windows 10 virtual desktops, instead of on a single virtual desktop. This issue occurred only when the following settings were used in Xconfig: Window Mode = Multiple	Exceed

JIRA ID	Description	Affected Component(s)
	Window Manager = X	
CONN-3067	Resolved the following keyboard input issues: • When a user pressed the [or] keys (with or without using the Shift key) on the French or French Canadian keyboard, the keys did not produce any output. • When a user typed AltGr+'5', or AltGr+'-', using `french.kbf,` the correct keys appeared. This was not the case with the `frencan.kbf`, as they appeared as ¤ and ½, as shown on the physical keyboard.	Exceed
CONN-3054	Provided an updated `humcssx.dll` to address the following issue: • Customer connects to the host over VPN, using a predefined SSH tunnel, configured as follows: `Use for Authentication.` The Xconfig > Security is set up for `No host access.` The following error message is shown: `X connection to local host broken (explicit Kill or server shutdown).`	`humcssx.dll`
CONN-3019	Resolved the following issue: • HostExplorer 15.0.2 Web Deployment installs only via Java, and not ActiveX, if an older Connectivity version was previously deployed to the desktop. A message was displayed, indicating that the Active X had timed out.	Deployment Wizard

8.3 Issues resolved in Connectivity 15.0.2 hot fixes

The following issues were resolved in hot fixes after the release of Connectivity 15.0.2, and prior to completion of Connectivity 15.0.3 release. All the hot fixes are cumulative and included in the 15.0.3 release.

Hot Fix 15		

CONN-3164	Resolved the following issue:
	
	• When the user right-clicked within an X application, the right-click menu was not displayed, as expected.
	
	The issue occurred because Exceed Version 15 did not provide a mechanism to define 3-button pointer devices. Exceed X server always reported 10-button mouse, even when the following relevant options were configured appropriately, as follows:
	
	`ExtraButtonSupport=0`
	
	`Wheel Movement is ignored = ON`
		Exceed
		
		`exceed.exe`

Hot Fix 13		
CONN-3099	Resolved a keyboard input issue, observed with Exceed 15.0 connecting to AIX 6. If Caps Locks key was enabled, the following keys did not work: • Backspace • Enter	Exceed `exceed.exe`
Hot Fix 12		
CONN-3154	Resolved an issue of a black image left on the menu bar, when Robcad was run with Exceed 15.	Exceed `exceed.exe`
Hot Fix 11		
CONN-3126	Resolved the following issue:	HostExplorer

	• Launching an FTP profile from Windows Explorer triggers a Runtime Error in Windows Explorer.	
Hot Fix 10		
CONN-3160	OpenSSL files have been updated to OpenSSL 1.0.2.j. **Public Description:** **Major changes between OpenSSL 1.0.2i and OpenSSL 1.0.2j [26 Sep 2016]** • Missing CRL sanity check (CVE-2016-7052) **Major changes between OpenSSL 1.0.2h and OpenSSL 1.0.2i [22 Sep 2016:** • OCSP Status Request extension unbounded memory growth (CVE-2016-6304) • SWEET32 Mitigation (CVE-2016-2183) • OOB write in MDC2_Update() (CVE-2016-6303) • Malformed SHA512 ticket DoS (CVE-2016-6302) • OOB write in BN_bn2dec() (CVE-2016-2182) • OOB read in TS_OBJ_print_bio() (CVE-2016-2180) • Pointer arithmetic undefined behaviour (CVE-2016-2177) • Constant time flag not preserved in DSA signing (CVE-2016-2178) • DTLS buffered message DoS (CVE-2016-2179) • DTLS replay protection DoS (CVE-2016-2181) • Certificate message OOB reads (CVE-2016-6306)	Connectivity Server OpenSSL binary and libraries
Hot Fix 9		
CONN-3146	Resolved an issue of flickering graphics, observed with Motif/OpenGL applications and Exceed 15.	Exceed
Hot Fix 8		
CONN-3099	Resolved the following keyboard input issue: • When the Caps Lock was enabled the Backspace and Enter keys were not functional.	Exceed

	Now, if the user disables the XKEYBOARD extension, and then presses the Backspace and Enter keys, they work with the CapsLock key enabled.	
CONN-3128	Resolved a keyboard shortcut issue. The following key combination did not have the expected result, with Exceed 15: `Left_Ctrl + Left_Shift + 0`	Exceed
Hot Fix 7		
CONN-3143	Resolved an issue of Feadms X application, where blue XYZ axis was displayed instead of red one.	Exceed
Hot Fix 6		
CONN-3138	Resolved an issue observed with Exceed and Product Data Manager (PDM) – PDM submenu froze and was unresponsive.	Exceed
Hot Fix 5		
CONN-3136	Resolved a font related issue. Custom WFF fonts were not shown correctly in Exceed 15 (they were either not displayed or were partially cut off).	Exceed
Hot Fix 4		
CONN-3056	OpenText Exceed XDK now supports MinGW. Previously, users of Exceed XDK could not build MinGW applications using the Exceed XDK environment.	libX11m.a
CONN-3070	Resolved an issue causing incorrect behavior of the Motif 2.0 File Selection dialog box (the Filter field). When selections were made, the directory name in the field was appended.	hclxm.dll XmStatic.lib

CONN-3125	Resolved an issue causing incorrect behavior of the Motif 2.1 File Selection dialog box (the Filter field). When selections were made, the directory name in the field was appended.	HclXm21.dll XmStatic.lib
Hot Fix 3		
CONN-3131	Resolved an issue observed when Exceed.exe crashed while running with Product Data Manager (PDM).	Exceed
CONN-3095	Resolved an Xserver crash issue, which occurred when the main window was minimized in an XDK X11 application.	Exceed
CONN-3116	Resolved the following keyboard issue: • The Caps Lock key did not work when the XKEYBOARD extension was turned off. Yet, if the XKEYBOARD extension was enabled in Xconfig, under the X Protocol, and Exceed was restarted, the Caps Lock key functioned normally. The Caps Lock key now behaves correctly, regardless of the state of the XKEYBOARD extension (whether it is disabled or enabled).	Exceed

9 Connectivity 15.0.2 (Service Pack 2)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.2, also known as Version 15.0, Service Pack 2.

9.1 New features and enhancements in Connectivity 15.0.2

This section lists the new features implemented in this service pack.

9.1.1 New OpenSSL Version

OpenSSL files have been updated from OpenSSL 1.0.1p to OpenSSL 1.0.2g.

> 📄 **Note:** In Version 1.0.2g, OpenSSL has discontinued support for SSLv2.

9.1.2 New user interface and configuration for TLS/SSL connections

Changes were introduced to the Transport Layer Security (TLS) and Secure Socket Layer (SSL) profile settings and connections.

New in 15.0.2	Details
Global configuration changes	Several encryption flags have been introduced, which provide greater control over which encryption protocols are used. These flags are: • `Use TLS Only` • `Enable SSLv2 Protocol` • `Use Highest TLS as Default` These flags affect the following products / components: • HostExplorer • HostExplorer Print Services • HostExplorer FTP
User interface change	• A new option, *Highest TLS Version*, replaces *Highest TLS/SSL Version,* in the SSL/TLS configuration screen. • *Highest TLS Version* no longer supports negotiation of SSLv3 protocol, and this is now the default security setting. Connections to SSLv3 or SSLv2 hosts will now require manual selection of the appropriate SSL protocol. • SSL Version 2 has been removed from the list of available protocols. A global configuration flag has been added, which allows SSL Version 2 to be selected and used.

New in 15.0.2	Details
	Example menu:

9.1.2.1   Configuration flags to be set in the .ini files

This section lists the security protocol settings that affect profile connections globally:

TLS or SSL setting	Description
Use Highest TLS as Default	<u>Default: ON</u> This flag determines the default protocol for encrypted communications. • <u>ON</u>: *Highest TLS Version* will be used as the default option for new and existing profiles • <u>OFF</u>: *SSL Version 3* will be used as the default option for new and existing profiles
Use TLS Only	<u>Default: OFF</u> Restricts all connection profiles to use only TLS protocol. • <u>ON</u>: Only TLS protocols will be available as selectable options; existing profiles that specify SSL will use TLS instead. • <u>OFF:</u> TLS and SSL protocols will be available as selectable options.
Enable SSLv2 Protocol	<u>Default: OFF</u> This flag controls whether *SSL Version 2* is a supported protocol. • <u>ON</u>: *SSL Version 2* will be available as a selectable option; profiles that specify *SSL Version 2* will use SSLv2 protocol. <u>OFF:</u> *SSL Version 2* will not be available as a selectable option; profiles that specify *SSL Version 2* will use TLS instead.

9.1.2.2   Example configurations (features enabled or disabled)

📄 **Note:** By default, the settings are not written into the global files. For HostExplorer, the Use TLS Only setting is configured through the Global Options dialog. When an option is modified, HostExplorer must be restarted. For PrintServices and HE FTP, they must be added manually to enable or disable the features.

Modify this .ini configuration file	Enable feature	Disable feature

`HostExplorer\HostEx.ini`	`[Use TLS Only]`
	HDFUBValue=1
	
	`[Use Highest TLS as Default]`
	HDFUBValue=1
	
	`[Enable SSLv2 Protocol]`
	***HDFUBValue* =1**
		`[Use TLS Only]`
		HDFUBValue=0
		
		`[Use Highest TLS as Default]`
		HDFUBValue=0
		
		`[Enable SSLv2 Protocol]`
		***HDFUBValue* =0**

`PrintServices\pesrv.ini`	`[System.Settings]` ***Use TLS Only*=*On*** `[System.Settings]` **Use Highest TLS as Default**=On `[System.Settings]` **Enable SSLv2 Protocol**=*On*	`[System.Settings]` ***Use TLS Only*=*Off*** `[System.Settings]` **Use Highest TLS as Default**=Off `[System.Settings]` **Enable SSLv2 Protocol**=*Off*
`FTP\heshell.ini`	`[FTP Settings]` ***Use TLS Only*=*1*** `[FTP Settings]` **Use Highest TLS as Default**=*1* `[FTP Settings]` **Enable SSLv2 Protocol**=*1*	`[FTP Settings]` ***Use TLS Only*=*0*** `[FTP Settings]` **Use Highest TLS as Default**=*0* `[FTP Settings]` **Enable SSLv2 Protocol**=*0*

9.1.3 New security message when a connection is made to a TLS system

The following generic message was modified (shown when a connection was made to a pure TLS system):

```
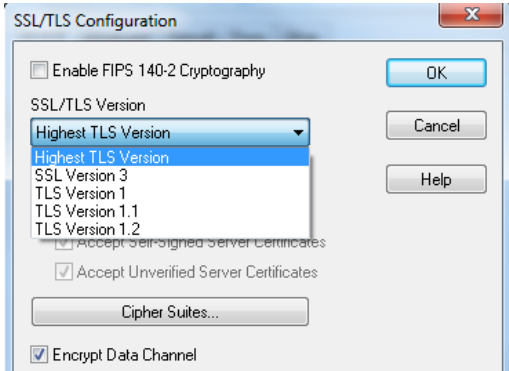Using SSL as security mechanism
```

The new message shows the following information:

```
Negotiating (the version selected in the SSL/TLS version option) as
security mechanism.
```

Examples:

```
Negotiating Highest TLS Version as security mechanism.
```

```
Negotiating SSL Version 3 as security mechanism
```

```
Negotiating TLS Version 1.2 as security mechanism
```
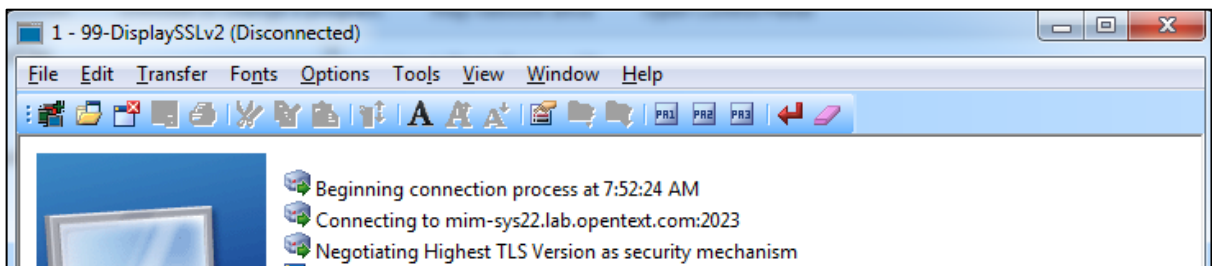

9.1.4 New default value for Host Access Control for enhanced security

This release introduces a security enhancement to Exceed. By default, a security warning is displayed if a connection is attempted by an unauthorized host that is not included in the Xconfig **Host Access Control List** (xhost.txt).

The following Xconfig default setting is used after installing Exceed:

```
Host Access Control List = File (xhost.txt)

Connection Warnings: 'Warn on Unauthorized Connections' = ON
```

This setting does not affect upgrades but clean installations only.

If Version 15.0 is …	Then…
Already installed	Manually change the existing `Default.XCFG,` through Xconfig so that it has the same Xhost settings. –or- Copy the patched version of `Default.XCFG` from the global user template folder to the local user folder. This will reset all the settings to the new OpenText default values Example of typical Global User Template folder: `<ProgramFiles>\Hummingbird\Connectivity\15.00\Default User\Exceed`
Not installed	Obtain the updated `Default.XCFG` by applying the 15.0.2 patch during the original installation of Exceed itself.

Product affected: Exceed

9.1.5 Ability to add the host name to the title bar of Exceed windows in MWM

Exceed can be configured to include the host name in the title bar of the windows shown in Multiple Window mode. The following undocumented flag has been added:

        ShowHostnameInTitle=0

When the default is changed and set to 1, the title bar of windows in MWM shows the host name.

Example: `xterm@hostname`

Please note:

- The host name appears in all the windows (`xterm@hostname` - `xclock@hostname` etc.).
- If the user uses Telnet to access another host, the window title bar changes to reflect this.

Product Affected: Exceed

9.1.6 Ability to remove Full Screen toolbar from the screen

In Exceed, the Full Screen toolbar appears if the user has chosen the following context:

- Single Window Mode – Full Screen.

Starting with Version 15.0.2, you may disable this toolbar, based on your user preference.

To disable the Full Screen toolbar:

- Use the following flag in Xconfig or the Registry, under `…\Exceed\XServer key`:

    `DontShowFSToolbar` = 1

This flag removes the Full Screen toolbar if it is set as DWORD to 1.

To switch the Full Screen mode to Single Window Mode mode, and back:

- Press the F11 key.

9.1.7 Ability to auto-generate numeric suffix for 3270 print sessions

When the user selects Print to File, each new print job is now assigned a new file number, in sequential, ascending order.

Example:

- `c:\My\FileName999.txt`
  `c:\My\Filename1000.txt`
  `c:\My\FileName1001.txt`
  `c:\My\FileName1002.txt`
  `c:\My\FileName1003.txt`
  `c:\My\FileName1003.txt`

To enable this behavior for 3270 sessions, the following setting was added under **Printer Session Properties > Printer Destination > Write mode**:

- `Auto-generate numeric suffix`
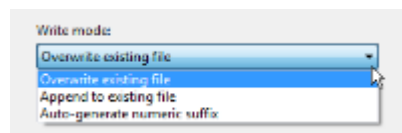
 Product affected: HostExplorer

9.1.8 New default for saving the HostExplorer Basic source file

By default, if the user selects the Save As option, a HostExplorer Basic source file will be saved to the location where it has been opened originally.

Note: A HostExplorer Basic source file is also referred to as an EBS document.

Product affected: HostExplorer Basic

9.1.9 Improved messaging for FIPS modules

When the FIPS Fingerprint check fails, a more specific message is now shown, to help the user to detect the cause.

Previously, only a generic `500 SSL failure` message was shown. If OpenSSL modules failed to load or initialize, the following messages are now shown, depending on the configuration:

```
500 Failed to load or initialize Security Layer FIPS modules.

-or-

500 Failed to load or initialize Security Layer modules.
```

9.1.10 Ability to modify the path for 32 bit program files during installation

To apply this functionality, the `ALLOWBROWSE32` property must be set from the command line.

To set the `ALLOWBROWSE32` from the command line:

1. Open the command line prompt (go to **Start** > **All Programs** > **Accessories** > **Command Prompt**.
2. Type **msiexec /i** *package***ALLOWBROWSE32**=*transform list*.
3. Press **ENTER**.

    Where:
    - i stands for the install command
    - `ALLOWBROWSE32` is a property that specifies the transform (.mst) files to be applied to the package.
    - *package* is the name of the Windows Installer package file (.msi).

Products affected: Exceed x64, HE x64, SecureShell x64 products

9.2 Issues resolved in Connectivity 15.0.2

JIRA ID	Description	Affected Component(s)
CONN-3040	Resolved an issue where the minimum window size was incorrectly rendered (smaller than the X application minimum window size).	XServer
CONN-3024	Resolved an issue affecting the Exceed feature that allowed the window to snap to the edge of the screen. When the Exceed bar was snapped to one of the primary monitor borders and an Xapplication window snapped to it, moving the mouse over the two screens resulted in a position reset for the Xapplication window. The issue was observed on a dual monitor configuration (with Multiple Window Mode enabled).	OpenText Exceed
CONN-3022	Resolved an issue where the current working directory was changed to the Exceed folder and not reverted back to the original location resulting in failures to load local X clients.	OpenText Exceed XDK
CONN-2977	Resolved a problem where, when the user ran an Xapplication, Exceed was unexpectedly launched locally, even though the DISPLAY variable pointed to a remote machine.	OpenText Exceed XDK
CONN-2953	Resolved a problem with the system bell delays/echoes.	OpenText Exceed
CONN-2948	Updated the SSL components in parity with the OpenSSL product release, 1.0.2g.	OpenText Connectivity Suite
CONN-2943	Resolved an issue where Exceed would freeze and the session would have to be terminated. The issue occurred when the following keys were pressed simultaneously in a GNOME Terminal screen while the option `HIGHLIGHT THE POINTER WHEN YOU PRESS CTRL` was enabled: • `CTRL+Other Keys` (such as `CTRL+PageUP`)	OpenText Exceed

JIRA ID	Description	Affected Component(s)
CONN-2940	Resolved the inability to enter additional lines at the bottom of the screen, during data set modification. The issue was observed in Edit mode, and with the following screen size: `62x160`. 	OpenText HostExplorer

CONN-2915	Re-enabled this legacy Xstart keyboard shortcut:
	
	`Run  (Ctrl-R)`
	
	Thus, the following legacy keyboard sequences can be used to open and run Xstart profiles:
	
	`Open (CTRL-O)`
	
	`Run  (Ctrl-R)`
		OpenText Exceed

CONN-2913	Resolved the following obsolete timestamp issue: • A user without administrator privileges added a HostExplorer profile to the Default User location and then issued the following command: `HumSettings.exe UPDATELASTMODIFIED=ProfileMP` As a result: ▪ The timestamp in the `PerUser Settings.ini` file was not updated to reflect the action performed. ▪ `Humsettings.log` file showed that the newer timestamp was supposed to be updated for `ProfileMP` but the value was not updated in the file.	OpenText HostExplorer
CONN-2903	Resolved an issue where the following error was shown intermittently (after which the software would shut down): `HostExplorer for Win32 has stopped working` This happened with HostExplorer in a two-monitor setup, with two sessions running.	OpenText HostExplorer

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JIRA ID	Description	Affected Component(s)
CONN-2901	Resolved an issue with an FTP file transfer within HostExplorer. Files were sent to a subfolder on the main frame, and this caused the following error message: `System out of memmory` The same transfer worked when the FTP profile was used to send files.	OpenText HostExplorer
CONN-2899	Resolved a memory leek issue with Display Manager (`DispMgr.exe`).	OpenText Exceed
CONN-2807	Resolved a deployment page issue, which required the use of a 64-bit ActiveX object in order to use HostExplorer. The following message was shown: `This deployment page requires the use of a 64-bit ActiveX object in order to use HostExplorer. However this is a 32-bit version of Internet Explorer. Please try to load the 64-bit version of Internet Explorer.` • Administrator can now create 64bit package as per the standard procedure. • Users can then launch the 64-bit version of HostExplorer from a deployment site, using 32bit Internet Explorer tabs without requiring the use of the Java applet. **Note:** ActiveX Object or Document types are not supported. An error message is shown in that case.	OpenText HDW
CONN-2786	Resolved an issue with incorrect behavior of the Backing Store setting. When using an X window manager with BackingStores set to Always, Exceed may not restore minimized windows correctly.	OpenText Exceed

9.3 Known issues in Connectivity 15.0.2

JIRA ID	Known issue	Description
CONN-2891	Setup fails when Web-to-Host and Deployment Wizard Admin image is created from Connectivity 15.0.1 (Build.027) DVD image	The issue occurs because HDW `.msp` for version 15.0.1 (SP1) is not automatically copied to the Installer folder of the Admin image. **Solution:** Manually copy HDW MSP SP1 to the Installer folder of the Admin image, and the `setup.exe` will run.
CONN-3052	Local password encryption / decryption depends on being able to load the FIPS libraries.	**Affects:** Exceed, HostExplorer After upgrading to Connectivity Version 15.0.2, users running HostExplorer FTP with FIPS mode enabled (or using the FIPS-Only install option) will find that their stored passwords are blank and must be re-entered. **Solution:** Save the password again. Going forward the password should be saved properly. _____ **Affects:** Exceed, HostExplorer, Windows 8 or later, 32-bit Users launching Connection Central from the desktop may discover that HostExplorer FTP profiles with FIPS mode enabled (or using the FIPS-Only install option) will not save the password, and (starting in Version 15.0.1) may fail to connect with an OpenSSL library loading error. **Solution:** When using HostExplorer FTP, launch Connection Central from the Start menu, instead of the desktop.

10 Connectivity 15.0.1 (Service Pack 1)

This section lists the new features, resolved issues, and known issues of OpenText Connectivity, Version 15.0.1, also known as Version 15.0, Service Pack 1.

10.1 New features and enhancements in Connectivity 15.0.1

This section lists the new features implemented in this service pack.

10.1.1 New OpenSSL Version

OpenSSL files have been updated from OpenSSL 1.0.1L to 1.0.1p.

10.1.2 FIPS compliance update

You can now limit installation of the OpenSSL files to the *FIPS Only* version.

The FIPS validated modules have the following file names:

- `libeay32f.dll` (32-bit)
- `libeay64f.dll` (64-bit)

  - **Note:** If you select the FIPS only feature you will lose the ability to connect to a non-FIPS server and HostExplorer FTP may not be available.

10.1.2.1 Which products are affected?

The following OpenText Connectivity products use an embedded FIPS 140-2 validated cryptographic module (certificate #1747):

- OpenText Exceed 15 SP1 and later
- OpenText HostExplorer 15 SP1 and later
- OpenText Secure Shell 15 SP1 and later

10.1.2.2 Installation changes

This section describes how FIPS compliance update affects product installation.

Note: The FIPS Only feature requires that Connectivity 15.0.0 be uninstalled and then re-installed from the Connectivity 15.0.1 DVD / ISO image. Upgrading to 15.0.1 using the `.msi/.exe` will not offer the FIPS Only feature.

To install FIPS only version, you need to uninstall a previous version of Connectivity and perform a clean installation of OpenText Connectivity 15.0.1. See *Installing FIPS Only version of Connectivity 15.0.1* on page 7.

Personal Installation:

To ensure that FIPS Only version is used, i.e., that only FIPS validated modules of OpenSSL files are installed:

- At the Setup Type screen, select the check box:

  ```
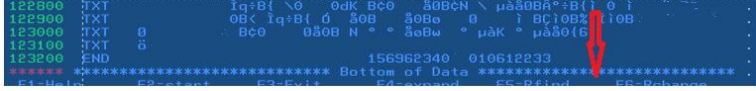  Ensure only FIPS Validated Cryptography is used
  ```

Silent installation:

The *FIPS Only* feature has been added to the installer. Selecting this option during silent installations is the equivalent of configuring the following option in the `Properties` section of the OpenText Setup Configuration Wizard:

- `Security.UseFIPSOnly`

If the *FIPS Only* feature is selected, OpenText Connectivity will install only FIPS Validated OpenSSL libraries built by OpenText. Thus, all SSL and SSH connections will run in the FIPS mode, even if it has not been enabled at the profile level.

If…	Then…
An application fails to load the FIPS module during a *FIPS Only* installation.	The connection is blocked and a standard message is displayed `500 SSL Negotiation failed`
HostExplorer failed to connect using SSL	The following generic message is shown: `Could not establish SSL connection`
If *Select user certificate* is enabled for both HostExplorer and FTP sessions	The following message is displayed: `Unable to load OpenSSL libraries`

10.1.3 Ability to hide the IP icon in the system tray

The IP system tray icon is no longer mandatory and is hidden by default. Users who wish to enable this functionality can do so using a configuration setting.

10.2 Issues resolved in Connectivity 15.0.1

The following issues were resolved in OpenText Connectivity 15.0.1

JIRA ID	Description	Affected Component(s)
CONN-2708	Resolved an issue with a Static Display ID not being shown, after the user logged in for the second time. In the Citrix published application mode, under certain configurations, Exceed Display Controller may not be contacted correctly because of a timing issue. As a result, Exceed Display Controller now always synchronizes the consumption status of display numbers with run-time information retrieved from the system before assigning a new display number.	Exceed Display Controller
CONN-2718	Resolved an issue with the window ID being incorrectly assigned to the *Transient For* window. This issue resulted in the ability to move the main window on top of the *Transient For* window (for example, a dialog box or secondary window). The issue occurs in Native Window Mode, in the following context: • If the TSF ID equals the Root Window ID, the main window may move on top of the *Transient For* window when you click on the main window or change the focus.	Exceed onDemand Client ThinX Proxy
CONN-2736	Resolved an issue where the use of the Pin button from the Full Screen toolbar could display the wrong state.	Xserver
CONN-2753	Resolved an issue with the positioning of the Full Screen toolbar on a dual monitor machine. The toolbar was shown at the bottom of the monitor, which was not its expected placement. The issue was encountered in the following context: 1. On a dual-monitor machine, place the second monitor on top of the Primary monitor. Make sure that the Windows taskbar is not auto-hidden.	XServer

JIRA ID	Description	Affected Component(s)
	2. In Xconfig, change to Single Window Mode (SWM), with Full Screen using the All monitors option. 3. Run Exceed with this Xconfig.	
CONN-2757	Resolved a memory leak (crash) issue involving Genesis (local X application) and `exceed.exe`, run overnight.	XServer
CONN-2778	Resolved an issue with HostExplorer EHLLAPI when an application was run as a service.	HostExplorer
CONN-2789	Resolved a general deployment error with the HostExplorer Deployment Wizard. Previously, the following message was displayed to indicate this deployment error: `General Deployment Error. We are unable to Continue to Deploy on this machine.` The error no longer occurs.	HostExplorer Deployment Wizard
CONN-2791	Resolved an issue with the following setting from the Printer Session Properties: `Unable to save Ignore host-defined characters per line setting (WCC)` Previously, the setting could not be saved.	HostExplorer
CONN-2792	Resolved an issue that affected how lines of text were displayed on a printed report (they overlapped each other). The reports are now printed correctly.	HostExplorer
CONN-2796	FTP/HostExplorer Shell no longer fails gracefully when OpenSSL fails to load. **Note:** The FIPS module requires that the module be loaded at a specific address. However, in Windows 8, another module is already loaded at that address. In this case, the FIPS module presents a	HE FTP

JIRA ID	Description	Affected Component(s)
	message box indicating there was a problem loading the modules and then exits gracefully.	
CONN-2829	This hot fix provides the following Security updates for MIT Kerberos: CVE 2014-5355	OpenText Exceed (x64) OpenText Secure Shell (x64)
CONN-2877	To address a usability issue and communicate clearly that Connectivity negotiates the use of the highest available version of SSL/TLS that the server supports, the following string was renamed: **Previous:** SSL Version 2/3 **Current:** `Highest TLS/SSL Version` In addition, the related dialog box, has been renamed. **Previous:** `Cipher Suite for SSL V2/3` **Current:** `Cipher Suites for Highest TLS/SSL Version` The SSL/TLS Options are available in Connection Central.	OpenSSL

10.3 Known issues in Connectivity 15.0.1

There are no known issues to report in this service pack.

10.4 Files delivered in Connectivity 15.0.1

The following installation files are available for this Service Pack.

10.4.1 Complete file

The following executable files have been provided for this service pack installation:

```
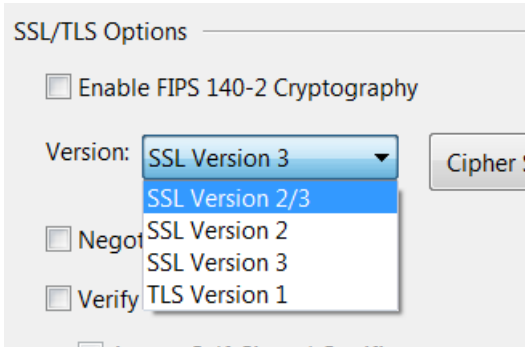OpenTextConnectivity15_ServicePack1.exe or
OpenTextConnectivity15x64_ServicePack1.exe
```

10.4.2 Individual product installation files

📄 **Note:** The dates and versions of installation packages are not always the same as the dates and versions of the individual files installed by the packages.

Product	Package or File Name	Version
Exceed	`OpenTextExceed15_ServicePack1.exe \ .msp` (Windows) `OpenTextExceed15x64_ServicePack1.exe \ .msp` (Windows x64)	`15.0.1.215`
HostExplorer	`OpenTextHostExplorer15_ServicePack1.exe \ .msp` (Windows) `OpenTextHostExplorer15x64_ServicePack1.exe \ .msp` (Windows x64)	`15.0.1.215`
Secure Shell	`OpenTextSecureShell15_ServicePack1.exe \ .msp` (Windows) `OpenTextSecureShell15x64_ServicePack1.exe \ .msp` (Windows x64)	`15.0.1.215`
Web Deployment Wizard	`OpenTextWeb-to-HostandDeploymentWizard15_ServicePack1.exe \ .msp` (Windows)	`10.0.0.55`

Product	Package or File Name	Version
	`OpenTextWeb-to-HostandDeploymentWizard15x64_ServicePack1.exe \ .msp` (Windows x64)	

11 General notes

This section provides general notes and/or description of workarounds related to the products included in the Connectivity releases.

11.1 Choosing between OpenGL performance and network efficiency / 2D-drawing-on-3D correctness

Exceed 15 changed the default behaviour for OpenGL applications to prefer network efficiency and 2D-drawing-on-3D correctness over performance.

By default, it copies the OpenGL window content to its internal 2D X server buffer at 60hz. This means no `Expose` event needs to be sent if the OpenGL window is obscured, giving a potential responsiveness improvement and network bandwidth savings. Also, if an application does X11 2D drawing over the OpenGL window, the results will be as expected. This comes at a performance cost to the local GPU and may impact raw FPS.

Setting the following DWORD registry key to 0 disables this mirroring and makes Exceed 15 behave the same as Exceed 14:

`HKCU\Software\Hummingbird\Connectivity\15.00\Exceed\XServer\GlxRefreshMirrorMode`

12   Contact information

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