

Software Release Version 10.5 for Microsoft Windows

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6.0	3Dconnexion	2018-Feb-22	Final	Version 10.5.5 update
7.0	3Dconnexion	2018-Mar-22	Final	Version 10.5.6 update
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9.0	3Dconnexion	2018-Jun-27	Final	Version 10.5.8 update

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1. Introduction

1.1 Purpose

This document summarizes the changes in 3Dconnexion Software version as specified in section 1.3 below.

1.2 Target Audience

The target audience of this document is the general public using 3Dconnexion 3D mice.

1.3 Release Version

Release version 10.5.

1.4 Document History

Version 9.0

- Includes information on version 10.5.8 of 3DxWare 10 for Windows.

Version 8.0

- Includes information on version 10.5.7 of 3DxWare 10 for Windows.
- Corrects duplicate version number in this document section.

Version 7.0

- Includes information on version 10.5.6 of 3DxWare 10 for Windows.

Version 6.0

- Includes information on version 10.5.5 of 3DxWare 10 for Windows.
- Added reference to the support for the new device type “SpaceCompact” in v. 10.5.4 of 3DxWare released in November 2017.
- Corrected updated components in section 3.4.3.

Version 5.0

- Includes information on version 10.5.4 of 3DxWare 10 for Windows.
- Added reference to the support for Siemens PLM NX 12 in v. 10.5.0 of 3DxWare 10 released in August 2017.

Version 4.0

- Includes information on version 10.5.3 of 3DxWare 10 for Windows.

Version 3.0

- Includes information on version 10.5.2 of 3DxWare 10 for Windows.

Version 2.0

- Includes information on version 10.5.1 of 3DxWare 10 for Windows.
- Corrects version 1.0 date in the document’s history summary and the “minor” version number in the title.

Version 1.0

- First document version. Includes information on version 10.5.0 of 3DxWare 10 for Windows.

1.5 References

None.

2. Release Highlights

The following is a list of the most important changes and updates in this release:

2.1 Release of Jun 27, 2018

- Update 3DxWare 10 to version 10.5.8.
- Note: Driver stability improvements.

2.2 Release of May 30, 2018

- Update 3DxWare 10 to version 10.5.7.
- Note: Stability and performance improvements to the driver and plug-ins for Dassault Systèmes SOLIDWORKS and PTC Creo Parametric.

2.3 Release of March 22, 2018

- Update 3DxWare 10 to version 10.5.6.
- New: Add support PTC Creo Parametric 5.0.
- New: Add official support for Autodesk 3ds Max 2019.
- Note: Stability improvements and enhancements to the driver and the Navigation Library Server component.

2.4 Release of February 22, 2018

- Update 3DxWare 10 to version 10.5.5.
- Note: Stability and performance improvements to driver, LCD applets (SpacePilot Pro only) and add-in software for Autodesk 3ds Max, AutoCAD and Maya and PTC Creo Parametric.

2.5 Release of November 24, 2017

- Update 3DxWare 10 to version 10.5.4.
- New: Add support for Trimble SketchUp Pro 2018.
- New: Add support for SpaceMouse Compact (SMC).
- Note: Stability and performance improvements to the driver and the Navigation Library Server software.

2.6 Release of September 27, 2017

- Update 3DxWare 10 to version 10.5.3.
- Note: Stability improvements to driver software.

2.7 Release of September 19, 2017

- Update 3DxWare 10 to version 10.5.2.
- New: Support for CadMouse Wireless and Universal Receiver.
- New: Import and Export driver profile feature in "3Dconnexion Properties".
- Note: Stability improvements add-in software for Autodesk 3ds Max and AutoCAD and the driver.

2.8 Release of August 24, 2017

- Update 3DxWare 10 to version 10.5.1.
- Fix: Stability improvements in the driver and the plug-in for Autodesk Maya.

2.9 Release of August 8, 2017

- Update 3DxWare 10 to version 10.5.0.
- New: Long-press QuickZoom feature for 3Dconnexion Viewer and Assembly Demo; Autodesk 3ds Max, Inventor and Maya; Dassault Systèmes SOLIDWORKS; Onshape; PTC Creo; and Siemens PLM NX.
- New: Improved look-and-feel of Radial Menus and support for 8-button menus.

- New: Add "Check for update" feature to determine the latest version of 3DxWare 10 available for download. The feature can be customized on the "About" panel of "3Dconnexion Properties".
- New: Add support for versions 2018 of Autodesk 3ds Max, Inventor, Maya and Dassault Systèmes SOLIDWORKS.
- New: Add support for Siemens PLM NX 12.
- Change: Improved device type selection in main panel of "3Dconnexion Properties".
- Note: Stability improvements to driver and add-in software.

3. Windows Software

3.1 Description

The 3DxWare 10 product includes most of the 3Dconnexion Windows software available from 3Dconnexion. Two “editions” of the software and respective installation packages are available for distribution:

- **3DxWare32:** includes all x86 (32-bit) Windows driver and plug-in software for all currently supported 3D mouse products. This package installs the “3Dconnexion 3DxWare (32-bit)” edition.
- **3DxWare64:** includes all x64 (64-bit) Windows driver and plug-in software for all currently supported 3D mouse products. This package installs the “3Dconnexion 3DxWare (64-bit)” edition.

3.2 Supported Operating Systems

Supported Windows operating systems:

- Windows 7 SP1
- Windows 8.1
- Windows 10

Note 1: Windows RT (ARM architecture) not supported.

Note 2: Official support for Windows Vista, 7 RTM and 8 retired in v. 10.5.0 (August 2017).

3.3 Supported 3Dconnexion Products

Supported 3Dconnexion products:

- CadMouse
- CadMouse Wireless
- SpaceMouse Compact
- SpaceMouse Enterprise
- SpaceMouse Pro
- SpaceMouse Pro Wireless
- SpaceMouse Wireless
- SpaceNavigator
- SpaceNavigator for Notebooks
- SpacePilot Pro
- Universal Receiver

3.4 Changes to 3DxWare 10 for Microsoft Windows

Below is a breakdown of the changes implemented in this 3DxWare 10 version. These changes are listed under the individual components that make up the 3DxWare 10 product suite. If an application is not listed here, it does not mean that the application does not include support for 3D mice, as many applications are supported natively by the software vendor. However, if an application supports 3D mice, you will still need to download and install 3DxWare 10 in order to install the device driver (3DxWinCore).

3.4.1 Current Version

The current version of 3DxWare 10: **10.5.8**

3.4.2 Table of Included Products

The following table lists all included products in 3DxWare 10 and respective version and release date information.

Product Name	Version	Build date
3DxWare 10 for Windows	10.5.8	2018 Jun 20
3DxAdobe3D	1.4.1	2016 Nov 22
3DxAutoCAD	5.5.0	2018 Feb 5

<i>3DxAutoCAD (x64)</i>	<i>5.5.0</i>	<i>2018 Feb 5</i>
3DxCollage	1.3.0	2011 Feb 4
<i>3DxInventor</i>	<i>2.2.4</i>	<i>2017 May 18</i>
<i>3DxInventor (x64)</i>	<i>2.2.4</i>	<i>2017 May 18</i>
<i>3DxLcdApplets (SPP only)</i>	<i>1.5.1</i>	<i>2018 Feb 15</i>
<i>3DxLcdApplets (x64; SPP only)</i>	<i>1.5.1</i>	<i>2018 Feb 15</i>
3DxMSOffice	1.0.1	2016 Apr 15
3DxMSOffice (x64)	1.0.1	2016 Apr 15
<i>3DxMaya</i>	<i>5.2.6</i>	<i>2018 Feb 6</i>
<i>3DxMaya (x64)</i>	<i>5.2.6</i>	<i>2018 Feb 6</i>
<i>3DxNLServer</i>	<i>1.2.4</i>	<i>2018 Mar 20</i>
<i>3DxNX</i>	<i>3.4.10</i>	<i>2017 Sep 1</i>
<i>3DxNX (x64)</i>	<i>3.4.10</i>	<i>2017 Sep 1</i>
3DxPhotoshop	2.7.1	2016 Nov 22
3DxPhotoshop (x64)	2.7.1	2016 Nov 22
<i>3DxProENGINEER</i>	<i>2.4.1</i>	<i>2018 May 9</i>
<i>3DxProENGINEER (x64)</i>	<i>2.4.1</i>	<i>2018 May 9</i>
3DxSI	3.0.3	2014 Feb 10
3DxSI (x64)	3.0.3	2014 Feb 10
<i>3DxSketchUp</i>	<i>4.5.0</i>	<i>2017 Oct 4</i>
<i>3DxSketchUp (x64)</i>	<i>4.5.0</i>	<i>2017 Oct 4</i>
<i>3DxSolidEdge</i>	<i>3.6.1</i>	<i>2017 Jan 20</i>
<i>3DxSolidEdge (x64)</i>	<i>3.6.1</i>	<i>2017 Jan 20</i>
<i>3DxSolidWorks</i>	<i>3.5.2</i>	<i>2018 May 23</i>
<i>3DxSolidWorks (x64)</i>	<i>3.5.2</i>	<i>2018 May 23</i>
<i>3DxStudio</i>	<i>6.2.6</i>	<i>2018 Mar 15</i>
<i>3DxStudio (x64)</i>	<i>6.2.6</i>	<i>2018 Mar 15</i>
3DxTrainer	3.2.4	2016 Apr 15
<i>3DxWinCore</i>	<i>17.5.8</i>	<i>2018 Jun 20</i>
<i>3DxWinCore (x64)</i>	<i>17.5.8</i>	<i>2018 Jun 20</i>
<i>DemoPrograms</i>	<i>0.9.5</i>	<i>2017 Jun 14</i>
LADP	3.06.109	2010 Aug 3
LADP (x64)	3.06.109	2010 Aug 3

In italic: changed or new product packages since previous major release.

3.4.3 Changes to 3DxWare 10 since v. 10.3.0

The following component products were added (new): *none*.

The following component products were removed: *none*.

The following component products were updated: 3DxAutoCAD, 3DxInventor, 3DxLcdApplets, 3DxMaya, 3DxNLServer, 3DxNX, 3DxProENGINEER, 3DxSketchUp, 3DxSolidEdge, 3DxSolidWorks, 3DxStudio, 3DxWinCore (driver) and DemoPrograms.

Version 10.5.8 (r2793; Jun 20, 2018). Ninth public release of v. 10.5.

- Updated: 3DxWinCore v. 17.5.8 (r15128; Jun 20, 2018).
- Updated (x64): 3DxWinCore v. 17.5.8 (r15128; Jun 20, 2018).
- Fix: [WIN-59] BSOD after several hours of use.
- Fix: [WIN-96] SpaceMouse Module does not work with some applications when used alone.

Version 10.5.7 (r2779; May 25, 2018). Eighth public release of v. 10.5.

- Updated: 3DxProENGINEER v. 2.4.1 (r14876; May 9, 2018).
- Updated (x64): 3DxProENGINEER v. 2.4.1 (r14876; May 9, 2018).
- Updated: 3DxSolidWorks v. 3.5.2 (r15053; May 23, 2018).
- Updated (x64): 3DxSolidWorks v. 3.5.2 (r15053; May 23, 2018).
- Updated: 3DxWinCore v. 17.5.7 (r15062; May 25, 2018).
- Updated (x64): 3DxWinCore v. 17.5.7 (r15062; May 25, 2018).
- New: [WIN-86] Add installation support for "CAMWorks Solids" version 2018.

- New: Add installation support for "SolidCAM 2018 Embedded" and "SolidCAM 2017 with Embedded CAD 2018".
- Change: [WIN-60] Ctrl+MMB macro for Dassault Systèmes SOLIDWORKS is inconsistent.
- Fix: [WIN-44] Dassault Systèmes CATIA stops motion after half a second.
- Fix: [WIN-47] Mapkey launched from a button causes error "Illegal characters in input" in PTC Creo Parametric.
- Fix: [WIN-62] Subsequent instances of SOLIDWORKS detected as DeSignWorks.
- Fix: [WIN-70] Exception on application exit when page heap verification is enabled.
- Fix: [WIN-89] Changing windows while rotating turns of dynamic highlighting in SOLIDWORKS.
- Fix: [WIN-72] The 'Quick Wheel' macros for the mouse should be available for assignment in the "3Dconnexion Properties" panel.

Version 10.5.6 (r2771; March 21, 2018). Seventh public release of v. 10.5.

- Updated: 3DxNLServer v. 1.2.4 (r14856, branches/3dxnlserver/1-2; Mar 20, 2018).
- Updated: 3DxProENGINEER v. 2.4.0 (r14857; Mar 21, 2018).
- Updated (x64): 3DxProENGINEER v. 2.4.0 (r14857; Mar 21, 2018).
- Updated: 3DxStudio v. 6.2.6 (r14821; Mar 15, 2018).
- Updated (x64): 3DxStudio v. 6.2.6 (r14821; Mar 15, 2018).
- Updated: 3DxWinCore v. 17.5.6 (r14829; March 16, 2018).
- Updated (x64): 3DxWinCore v. 17.5.6 (r14829; March 16, 2018).
- New: Add support for PTC Creo Parametric 5.0.
- New: Added Shift-Lock and Ctrl-Lock button actions (similar behaviour to the CapsLock key). The actions are useful to do multi-selection with the 3D mouse without having to hold down the Shift or Ctrl keys.
- Change: Added a driver profile for the DeSignWorks add-in for Dassault Systèmes SOLIDWORKS.
- Fix: [WIN-41] Driver does not recognise web program when run from Firefox.
- Fix: [WIN-37] Fixed Hint in AltiumDesigner.xml so users saved settings get used.
- Note: Official support for Autodesk 3ds Max 2019.

Version 10.5.5 (r2759; February 20, 2018). Sixth public release of v. 10.5.

- Updated: 3DxAutoCAD v. 5.5.0 (r14732; Feb 5, 2018).
- Updated (x64): 3DxAutoCAD v. 5.5.0 (r14732; Feb 5, 2018).
- Updated: 3DxLcdApplets v. 1.5.1 (r14750; Feb 15, 2018).
- Updated (x64): 3DxLcdApplets v. 1.5.1 (r14750; Feb 15, 2018).
- Updated: 3DxMaya v. 5.2.6 (r14735; Feb 6, 2018).
- Updated (x64): 3DxMaya v. 5.2.6 (r14735; Feb 6, 2018).
- Updated: 3DxProENGINEER v. 2.3.7 (r14757; Feb 19, 2018).
- Updated (x64): 3DxProENGINEER v. 2.3.7 (r14757; Feb 19, 2018).
- Updated: 3DxStudio v. 6.2.5 (r14660; Jan 29, 2018).
- Updated (x64): 3DxStudio v. 6.2.5 (r14660; Jan 29, 2018).
- Updated: 3DxWinCore v. 17.5.5 (r14760; Feb 20, 2018).
- Updated (x64): 3DxWinCore v. 17.5.5 (r14760; Feb 20, 2018).
- Change: Prevent 3Dconnexion Properties crash if the corresponding user.config file is corrupted.
- Fix: RSS Reader applet (SpacePilot Pro only) leaks GDI objects and consumes 10k GDI objects.
- Fix: Command language is always English in PTC Creo Parametric.
- Fix: PTC Creo Parametric plug-in does not load if PRO_LANG variable is empty.
- Fix: [7506] Raw Input apps do not use changes made in 3DxSmartUI on Windows 10.
- Fix: [7500] Feature "Import and Export Profiles" does not match specification.
- Fix: [7334] SpaceMouse Enterprise LCD tilted if display scale settings are set to 115%.
- Note: SpaceMouse Compact officially supported in v. 10.5.5 of 3DxWare 10.

Version 10.5.4 (r2703; November 21, 2017). Fifth public release of v. 10.5.

- Updated: 3DxNLServer v. 1.2.3 (r14519; Oct 18, 2017).

- Updated: 3DxSketchUp v. 4.5.0 (r14496; Out 4, 2017).
- Updated (x64): 3DxSketchUp v. 4.5.0 (r14496; Out 4, 2017).
- Updated: 3DxWinCore v. 17.5.4 (r14569; branches/17-5-4; Nov 21, 2017).
- Updated (x64): 3DxWinCore v. 17.5.4 (r14569; branches/17-5-4; Nov 21, 2017).
- New: Add support for SketchUp Pro 2018.
- New: Added "Disabled" driver function to have device buttons execute no action when pressed. The function is available for all applications under the "3Dconnexion" command category.
- Change: Modified BricsCAD profile with support for application commands (with icons).
- Change: Added driver profiles for CST STUDIO SUITE, Vectorworks version 2018 and SOLIDWORKS Visualize.
- Change: Improve handling of device hot-plugging to prevent "restart request" system messages.
- Fix: [7452] Wheel button loses its mapping in Inventor when changing mode.
- Fix: [7463] Button Mapping on CMW buttons not working in BT mode after sleep mode.

Version 10.5.3 (r2686; Sep 27, 2017). Fourth public release of v. 10.5.

- Updated: 3DxWinCore v. 17.5.3 (r14480; Sep 27, 2017).
- Updated (x64): 3DxWinCore v. 17.5.3 (r14480; Sep 27, 2017).
- Fix: [7451] No instruction images are shown on the Pairing Start panel for the CMW.
- Fix: [7452] Wheel button loses its mapping in Inventor when changing mode.
- Fix: [7453] AutoCAD (New Tab) is detected on the main Inventor 2017 page.

Version 10.5.2 (r2679; Sep 19, 2017). Third public release of v. 10.5.

- Updated: 3DxAutoCAD v. 5.4.3 (r14408; Sep 8, 2017).
- Updated (x64): 3DxAutoCAD v. 5.4.3 (r14408; Sep 8, 2017).
- Updated: 3DxNX v. 3.4.10 (r14396; Sep 1, 2017).
- Updated (x64): 3DxNX v. 3.4.10 (r14396; Sep 1, 2017).
- Updated: 3DxStudio v. 6.2.4 (r14415; Sep 14, 2017).
- Updated (x64): 3DxStudio v. 6.2.4 (r14415; Sep 14, 2017).
- Updated: 3DxWinCore v. 17.5.2 (r14453; Sep 19, 2017).
- Updated (x64): 3DxWinCore v. 17.5.2 (r14453; Sep 19, 2017).
- New: Add support for CadMouse Wireless (CMW).
- New: Add support for Universal Receiver (wireless support for CMW, SpaceMouse Pro Wireless and SpaceMouse Wireless). The Universal Receiver (UR) can be selected as a separate device type in the main panel of "3Dconnexion Properties".
- New: Import and Export driver profile feature in "3Dconnexion Properties".
- Change: Prevent Autodesk 3ds Max crash at start-up if an additional third-party plug-in has ProductCode="" in PackageContents.xml.
- Fix: [7430] SnapView command gets executed when application is changed.
- Fix: [7431] Button mapping changes in wireless mode (SMW, SMPW) does not work.
- Fix: [7435] Strange characters when executing command "Insert Wire" in Autodesk AutoCAD.
- Fix: [7441] Radial menu edit error after updating to 3DxWare 10.5.1.
- Fix: [7447] SME display regularly shows incorrect mapping when switching between 3Dconnexion Viewer and File Explorer.

Version 10.5.1 (r2664; Aug 23, 2017). Second release of v. 10.5.

- Updated: 3DxMaya v. 5.2.4 (r14375; Aug 23, 2017).
- Updated (x64): 3DxMaya v. 5.2.4 (r14375; Aug 23, 2017).
- Updated: 3DxWinCore v. 17.5.1 (r14377; Aug 23, 2017).
- Updated (x64): 3DxWinCore v. 17.5.1 (r14377; Aug 23, 2017).
- Fix: Correct check box controls behaviour in "Ready to Install" panel of the 3DxWare 10 installer.
- Fix: [7426] 3DxSmartUi.exe exception when using a single receiver dongle for the SpaceMouse Pro Wireless or SpaceMouse Wireless.
- Fix: [7428] Unhandled exception error during uninstalling 3DxWare with a SpaceMouse Wireless receiver connected.

- Fix: [7429] Maya plug-in does not load in Autodesk Maya 2018 RTM.

Version 10.5.0 (r2648; Aug 2, 2017). First release of v. 10.5.

- Updated: 3DxAutoCAD v. 5.4.2 (r14063; May 2 2017).
- Updated (x64): 3DxAutoCAD v. 5.4.2 (r14063; May 2 2017).
- Updated: 3DxInventor v. 2.2.4 (r14110; May 18, 2017).
- Updated (x64): 3DxInventor v. 2.2.4 (r14110; May 18, 2017).
- Updated: 3DxMaya v. 5.2.3 (r14222; Jun 28, 2017).
- Updated (x64): 3DxMaya v. 5.2.3 (r14222; Jun 28, 2017).
- Updated: 3DxNLServer v. 1.2.2 (r14051; Apr 28, 2017).
- Updated: 3DxNX v. 3.4.8 (r14078; May 8, 2017).
- Updated (x64): 3DxNX v. 3.4.8 (r14078; May 8, 2017).
- Updated: 3DxProENGINEER v. 2.3.6 (r14151; May 30, 2017).
- Updated (x64): 3DxProENGINEER v. 2.3.6 (r14151; May 30, 2017).
- Updated: 3DxSketchUp v. 4.4.4 (r14130; May 25, 2017).
- Updated (x64): 3DxSketchUp v. 4.4.4 (r14130; May 25, 2017).
- Updated: 3DxSolidEdge v. 3.6.1 (r13714; Jan 20, 2017).
- Updated (x64): 3DxSolidEdge v. 3.6.1 (r13714; Jan 20, 2017).
- Updated: 3DxSolidWorks v. 3.5.1 (r14204; Jun 22, 2017).
- Updated (x64): 3DxSolidWorks v. 3.5.1 (r14204; Jun 22, 2017).
- Updated: 3DxStudio v. 6.2.3 (r14221; Jun 28, 2017).
- Updated (x64): 3DxStudio v. 6.2.3 (r14221; Jun 28, 2017).
- Updated: 3DxWinCore v. 17.5.0 (r14333; Aug 1, 2017).
- Updated (x64): 3DxWinCore v. 17.5.0 (r14333; Aug 1, 2017).
- Updated: DemoPrograms v. 0.9.5 (r2618; Jun 14, 2017).
- New: Add option "Automatically check for updates".
- New: Add official support for versions 2018 of Autodesk 3ds Max, Inventor and Maya and Dassault Systèmes SOLIDWORKS.
- New: Add QuickZoom long-press feature for 3Dconnexion Viewer and Assembly Demo; Autodesk 3ds Max, Inventor and Maya; Dassault Systèmes SOLIDWORKS; Onshape; PTC Creo; and Siemens PLM NX.
- New: Add "Check for update" feature to determine the latest version of 3DxWare 10 available for download. The "About" panel of "3Dconnexion Properties" (3DxSmartUI) displays latest version of 3DxWare 10.
- New: [Enhancement 7329] Support "Sketch / Profile: Disable Rotation" option in the "Advanced Settings" panel of "3Dconnexion Properties" for Siemens PLM Solid Edge. When enabled, the option stops rotation in Sketch and Profile environments automatically. The option's default is rotation enabled (check-box not ticked).
- Change: .NET Framework requirement updated to version 4.6 or newer. Installer will run the online updater for version 4.6 if the required .NET Framework is not already present on the system. Microsoft Windows 10 includes .NET 4.6.
- Change: Use grid-style in device selector panel in "3Dconnexion Properties".
- Change: Make the Autodesk 3ds Max plug-in a GUP instead of a UtilityObj. This fixes [7335] ("mCloth tool not working"), as well as Tools->Manage Scene States not opening.
- Fix: [7393] AutoCAD Mechanical (German) uses English commands.
- Fix: [7396] When selecting a joint in Autodesk Maya, the rotation point behaves erratically.
- Fix: Disabled axis reset when restarting a web program (see [7380]) such as Onshape.
- Fix: Fix possible race writing user settings (see [7389]) in the add-ins for Autodesk 3ds Max, Maya and Siemens PLM NX.
- Fix: Custom user settings for Autodesk 3ds Max and Maya are not saved if user name contains non-ASCII characters.
- Fix: Fix QuickZoom in perspective views in Siemens PLM NX.
- Fix: [6912] QuickZoom does not zoom about cursor in drawing environment in Siemens PLM NX.
- Fix: [7389] PTC Pro/ENGINEER Wildfire 4.0 plug-in creates files with Chinese and Malayalam characters in the working directory.
- Fix: [7325] Rhino does not receive the button numbers, 0 is sent.

- Fix: [7334] SpaceMouse Enterprise LCD tilted if display settings are changed.
- Fix: [7392] Clean old user settings feature doesn't work correctly with symbolic links.
- Fix: [7320] Selection area out of alignment in 3Dconnexion Assembly.
- Note: Minimum required system version updated to Windows 7 SP1, 8.1 and 10. Windows 7 RTM and older and Windows 8 no longer supported.