

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 10.6.

1.4 Document History

Version 5.0

- Includes information on version 10.6.4 of 3DxWare 10 for Windows.

Version 4.0

- Includes information on version 10.6.3 of 3DxWare 10 for Windows.

Version 3.0

- Includes information on version 10.6.2 of 3DxWare 10 for Windows.

Version 2.0

- Includes information on version 10.6.1 of 3DxWare 10 for Windows.

Version 1.0

- First document version. Includes information on version 10.6.0 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 December 16, 2019

- Update 3DxWare 10 to version 10.6.4.
- New: Introducing “3Dconnexion Viewer” (3DxViewer10) supporting STEP, JT, IGES and other file formats.
- Note: Stability improvements to the driver and the plug-in software for Autodesk Maya, Dassault Systèmes SOLIDWORKS, Siemens PLM NX and Solid Edge and Trimble SketchUp.

2.2 Release of September 25, 2019

- Update 3DxWare 10 to version 10.6.3.
- Note: Stability improvements to the driver and the plug-in software for Autodesk 3ds Max and Autodesk Maya.

2.3 Release of August 9, 2019

- Update 3DxWare 10 to version 10.6.2.
- Fix: Resolve a bug that crashed the “3Dconnexion Properties” program when disabling the CadMouse “Smart Scrolling” feature.

2.4 Release of August 2, 2019

- Update 3DxWare 10 to version 10.6.1.
- New: Add support for the CadMouse Pro Wireless Left.
- New: Add support for Siemens PLM NX 1872 series.
- Note: Stability improvements to driver and plug-in software.

2.5 Release of June 3, 2019

- Update 3DxWare 10 to version 10.6.0.
- New: Add support for the CadMouse Pro Wireless.
- New: Add support for PTC Creo Parametric 6.0.
- Note: Stability improvements to driver and plug-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 3Dconnexion 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 3Dconnexion. 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: Windows RT (ARM architecture) not supported.

3.3 Supported 3Dconnexion Products

Supported 3Dconnexion products:

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

Note: Extended support for SpacePilot Pro ended on September 30, 2019. Version 10.6.3 was the last release with official support for this device type.

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: **10.6.4**.

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	10.6.4	2019 Dec 6
3DxAdobe3D	1.4.2	2018 Apr 3
3DxAutoCAD	5.6.0	2019 Jan 24
3DxAutoCAD (x64)	5.6.0	2019 Jan 24
3DxCollage	1.3.2	2019 Oct 11

3DxInventor	2.3.0	2018 Dec 12
3DxInventor (x64)	2.3.0	2018 Dec 12
3DxLcdApplets (SPP only)	1.5.1	2018 Feb 15
3DxLcdApplets (x64; SPP only)	1.5.1	2018 Feb 15
3DxMSOffice	1.0.1	2016 Apr 15
3DxMSOffice (x64)	1.0.1	2016 Apr 15
3DxMaya (x64)	6.0.3	2019 Nov 14
3DxNLServer	1.3.4	2019 Nov 28
3DxNX	3.4.14	2019 Dec 6
3DxNX (x64)	3.4.14	2019 Dec 6
3DxPhotoshop	2.9.2	2019 Apr 30
3DxPhotoshop (x64)	2.9.2	2019 Apr 30
3DxProENGINEER	2.4.2	2019 Mar 28
3DxProENGINEER (x64)	2.4.2	2019 Mar 28
3DxSketchUp	5.1.0	2019 Nov 21
3DxSketchUp (x64)	5.1.0	2019 Nov 21
3DxSolidEdge	3.6.3	2019 Nov 5
3DxSolidEdge (x64)	3.6.3	2019 Nov 5
3DxSolidWorks	3.5.6	2019 Oct 9
3DxSolidWorks (x64)	3.5.6	2019 Oct 9
3DxStudio (x64)	7.0.1	2019 Sep 18
3DxTrainer	3.2.6	2019 Feb 6
3DxViewer10	1.0.0	2019 Dec 6
3DxViewer10 (x64)	1.0.0	2019 Dec 6
3DxWinCore	17.6.4	2019 Dec 5
3DxWinCore (x64)	17.6.4	2019 Dec 5
DemoPrograms	0.9.7	2019 May 13
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. 10.5.15

The following component products were added (new): 3DxViewer10.

The following component products were removed: 3DxMaya (32-bit) and 3DxStudio (32-bit).

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

Version 10.6.4 (r3119; Dec 6, 2019). Fifth public release of v. 10.6.

- New: 3DxViewer10 v. 1.0.0 (r40; Dec 6, 2019).
- New (x64): 3DxViewer10 v. 1.0.0 (r40; Dec 6, 2019).
- Updated: 3DxCollage v. 1.3.2 (r745; Oct 11, 2019).
- Updated (x64): 3DxMaya v. 6.0.3 (r16769; Nov 14, 2019).
- Updated: 3DxNLServer v. 1.3.4 (r16861; Nov 28, 2019).
- Updated: 3DxNX v. 3.4.14 (r16915; Dec 6 2019).
- Updated (x64): 3DxNX v. 3.4.14 (r16915; Dec 6 2019).
- Updated: 3DxSketchUp v. 5.1.0 (r16807; Nov 21, 2019).
- Updated (x64): 3DxSketchUp v. 5.1.0 (r16807; Nov 21, 2019).
- Updated: 3DxSolidEdge v. 3.6.3 (r16740; Nov 5, 2019).
- Updated (x64): 3DxSolidEdge v. 3.6.3 (r16740; Nov 5, 2019).
- Updated: 3DxSolidWorks v. 3.5.6 (r16637; Oct 9, 2019).
- Updated (x64): 3DxSolidWorks v. 3.5.6 (r16637; Oct 9, 2019).
- Updated: 3DxWinCore v. 17.6.4 (r16911, branches/17-6; Dec 5, 2019).
- Updated (x64): 3DxWinCore v. 17.6.4 (r16911, branches/17-6; Dec 5, 2019).
- Updated: DemoPrograms v. 0.9.8 (Nov 14, 2019).
- New: Introducing "3Dconnexion Viewer" (3DxViewer10). See note below.
- New: [WIN-387] Add installer support for "FloEFD 2019.2" (OEM build of SOLIDWORKS).
- Change: Added CETOL MultiCAD driver profile.
- Change: [WIN-479] Extended support for SpacePilot Pro ended on Sep 30th, 2019.
- Change: [WIN-499] Drop add-in support for Siemens PLM NX 7.5 and older.
- Change: [WIN-503] Add support for Autodesk Maya version 2020 PR110.

- Fix: [WIN-388] It is not possible to move selected objects in Solid Edge.
- Fix: [WIN-482] 3DxSketchup Helicopter navigation mode removed.
- Fix: [WIN-490] Drifting in Dassault Systèmes 3DEXPERIENCE when left mouse button is pressed.
- Note: 3DxViewer10 is a brand-new 3D viewer developed by 3Dconnexion, supporting the main 3D file formats (STEP, IGES, JT, OBJ, STL, PLY, glTF). Feature summary:
 - GUI: frameless resizable window, dock-to-screen feature (left, top, right edges).
 - Main commands: Style, Orientation, Section, Explode, Materials, Mass Properties.
 - Model tree: shows the structure of the loaded 3D model.
 - Options: Perspective camera, Adaptive graphical quality, File type association, Section plane, Stereo output, Performance counters.
 - Online version update check.
 - File association: allows to specify 3DxViewer10 as the preferred applications for the supported file types.
 - Screenshot: makes a screenshot of the displayed 3D model excluding the background and saves it in the clipboard.
 - Print: allows to print the displayed 3D model without background.
 - Context menu: options for displaying/hiding a single part, show whole model.

Version 10.6.3 (r3045; Sep 18, 2019). Fourth public release of v. 10.6.

- Updated (x64): 3DxMaya v. 6.0.2 (r16586; Sep 17, 2019).
- Updated (x64): 3DxStudio v. 7.0.1 (r16591; Sep 18, 2019).
- Updated: 3DxWinCore v. 17.6.3 (r16588, branches/17-6; Sep 18, 2019).
- Updated (x64): 3DxWinCore v. 17.6.3 (r16588, branches/17-6; Sep 18, 2019).
- Change: [WIN-463] Enable "Action Interface" support for version R2019x FD04 of Dassault Systèmes 3DEXPERIENCE.
- Fix: [WIN-444] 3DxMaya installer does not detect SP1 for Windows 7.
- Fix: [WIN-445] 3DxStudio installer does not detect SP1 for Windows 7.
- Fix: [WIN-439] 3DxService crashes with some cfgs.

Version 10.6.2 (r3018; Aug 2, 2019). Third public release of v. 10.6.

- Updated: 3DxWinCore v. 17.6.2 (16520; Aug 2, 2019).
- Updated (x64): 3DxWinCore v. 17.6.2 (16520; Aug 2, 2019).
- Fix: [WIN-429] Unhandled crash in "3Dconnexion Properties" when disabling the "Smart Scrolling" CadMouse feature.

Version 10.6.1 (r3016; Aug 1, 2019). Second public release of v. 10.6.

- Updated (x64): 3DxMaya v. 6.0.0 (r16443; Jul 24, 2019).
- Updated: 3DxNX v. 3.4.13 (r16395; Jul 12, 2019).
- Updated (x64): 3DxNX v. 3.4.13 (r16395; Jul 12, 2019).
- Updated: 3DxSolidWorks v. 3.5.5 (r16438; Jul 23, 2019).
- Updated (x64): 3DxSolidWorks v. 3.5.5 (r16438; Jul 23, 2019).
- Updated (x64): 3DxStudio v. 7.0.0 (r16424; Jul 18, 2019).
- Updated: 3DxWinCore v. 17.6.1 (r16507; Aug 1, 2019).
- Updated (x64): 3DxWinCore v. 17.6.1 (r16507; Aug 1, 2019).
- Removed: 3DxMaya plug-in for 32-bit editions of Autodesk Maya.
- Removed: 3DxStudio plug-in for 32-bit editions of Autodesk 3ds Max.
- New: Add support for new device type "CadMouse Pro Wireless Left".
- New: [WIN-336] Add support for Siemens PLM NX 1872 series.
- New: [WIN-348] Add installer support for "CAMWorks Solids 2019" (OEM build of SOLIDWORKS).
- New: Add driver configuration for Bentley MicroStation CONNECT Edition.
- Change: Remove support for version 2013 and older of Autodesk 3ds Max and Maya. As 3ds Max and Maya version 2014 and newer are available only as 64-bit programs, the 32-bit plug-ins were removed from distribution.
- Change: [WIN-307] Remove redundant "Zoom to Fit" commands from the list of exported application commands for Dassault Systèmes SOLIDWORKS. Only the "Zoom to Fit" in the "View" category remains.
- Change: [WIN-312] Correct command identifiers for McNeel Rhino 6 SR13.
- Fix: [WIN-369] Button configuration panel for OnShape displays wrong application.
- Fix: [WIN-371] Onshape commands are shown under a single category (named "Commands").
- Fix: [WIN-375] "Move selected object" option does not work anymore in SOLIDWORKS.

- Fix: [WIN-399] Show "tooltip" to display full category name.
- Fix: [WIN-400] Command description is cropped if longer than three lines.
- Fix: [WIN-415] Customized configuration are deleted when upgrade from 10.5.15 to 10.6.0.

Version 10.6.0 (r2972; May 27, 2019). First public release of v. 10.6.

- Updated: 3DxNX v. 3.4.12 (r15850; Jul 19, 2018).
- Updated (x64): 3DxNX v. 3.4.11 (r15197; Jul 19, 2018).
- Updated: 3DxPhotoshop v. 2.9.2 (r16125; Apr 30, 2019).
- Updated (x64): 3DxPhotoshop v. 2.9.2 (r16125; Apr 30, 2019).
- Updated: 3DxProENGINEER v. 2.4.2 (r16025; Mar 28, 2019).
- Updated (x64): 3DxProENGINEER v. 2.4.2 (r16025; Mar 28, 2019).
- Updated: 3DxSketchUp v. 5.0.0 (r16110; Apr 27, 2019).
- Updated (x64): 3DxSketchUp v. 5.0.0 (r16110; Apr 27, 2019).
- Updated: 3DxSolidEdge v. 3.6.2 (r16104; Apr 18, 2019).
- Updated (x64): 3DxSolidEdge v. 3.6.2 (r16104; Apr 18, 2019).
- Updated: 3DxStudio v. 6.2.9 (r15959; Mar 8, 2019).
- Updated (x64): 3DxStudio v. 6.2.9 (r15959; Mar 8, 2019).
- Updated: 3DxTrainer v. 3.2.6 (r15847; Feb 6, 2019).
- Updated: 3DxWinCore v. 17.6.0 (r16266; May 27, 2019).
- Updated (x64): 3DxWinCore v. 17.6.0 (r16266; May 27, 2019).
- Updated: DemoPrograms v. 0.9.7 (r2965; May 13, 2019).
- New: Add support for new device type "CadMouse Pro Wireless".
- New: Added support for PTC Creo Parametric 6.0.
- Fix: [WIN-280] Iso1 and Iso2 cannot be set in a camera view in Autodesk 3ds Max.
- Fix: Model moves out of view during the animation (Autodesk 3ds Max).
- Fix: [WIN-330] Onshape icons rendered incorrectly.
- Fix: [WIN-315] Reset all settings does not update advanced settings UI.
- Fix: [WIN-333] 3DxHome crashes when 3DxHome.xml is saved for Polish.
- Note: Supported version range of SketchUp changed to 2014 to 2019. Versions 2013 and older no longer supported.