

# Matrox® **Display Driver Release Notes**

For Matrox® Mura™ MPX Series driver version 2.02.00

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# Overview

This document describes the current release of the Matrox Mura MPX Series driver (v. 2.02.00) for Microsoft® Windows® operating systems. Matrox provides these notes to describe bug fixes and improvements to PowerDesk software and to the driver.

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## What's new in this release

This release of the Matrox driver corrects customer reported issues, contains bug fixes and additional driver enhancements and optimizations, and new features and options.

- HDCP is now validated on setups that support up to 10 cards.
- Added a new set of Display Wall API functions to the Display Wall library that let Mura MPX Series client applications create transparency and blending effects with the desktop and between input streams or graphic images. For more information, see the Video Wall API documentation (available in the Documentation folder of the Mura MPX Series SDK).
- New Display Wall API functions for Analog RGB input signals (SetInputMode, GetInputMode). These functions are described in our standard Video Wall API documentation (available in the documentation folder of the Mura MPX Series SDK).
- New Network API functionality now lets applications retrieve Bezel Management information for the output configuration of the connected controller (Mura MPX Series only).
- Network API: Implemented an option designed to always keep Mura MPX Series streaming windows on top of other Windows® desktop application windows.
- Network API: Added support for Generic RTSP camera type.
- Network API: Added cropping capabilities on IP streams.
- Network API: Implemented new parameters for the *Source* command. The command also returns new information about which board ID and input ID correspond to the given input name. For more information, see the Network API documentation (available in our Network API SDK).
- Network API: New *ClearDatabase* command allows specific attributes to be deleted from the database. For more information, see the Network API documentation (available in our Network API SDK).

- New Network API commands allow you to set (*SetControllerClientData*), get (*GetControllerClientData*), and delete (*DeleteControllerClientData*) client application data relative to the controller. For more information, see the Network API documentation (available in our Network API SDK).
- Rendering performance has been optimized for outputs that use *clone mode*.
- Input detection performance has been improved for Mura MPX-V8 and Mura MPX-V16 cards.
- Added support for UAC (User Access Control). Display Wall applications can now run with standard user rights, not only administrator rights. (Note that administrator rights are still required to install Mura MPX Series drivers.)
- New options in PowerDesk let users set the default output signal type to be used (analog or digital) when no EDID information is detected from the monitor connected.

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# Driver changes in version 2.02.00

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## Fixed issues

- Implemented input filtering mechanisms so that the responsiveness of Display Wall applications isn't affected when invalid or unstable source input signals are connected to the input connectors of the Mura MPX Series card.
- Improved compatibility with HDCP displays and video sources for more robust HDCP support. [27258, 27997, 27216]
- In Network API, improved functionality of *StreamRegion* parameter in *Nobackground* mode. [27516]
- Improved detection for composite sources (color).

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## Notes and limitations

- Depending on where the stream windows are located on the desktop, full frame rates may not be reached for certain stream windows.
- To avoid possible problems with a new installation, you must first uninstall all Matrox software, including **Matrox PowerDesk**, **Matrox Driver**, **Matrox DisplayWall.msi**, and **Network API**.

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## Display Wall library and rendering engine

- All Display Wall API functions will return a failure if another application in the system is using overlay.
- Mura cards don't support sleep or hibernate mode.
- The render rate may drop if your outputs don't all use the same refresh rate.

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## Network API interface

- To use the *NetSetup* command, IPv6 needs to be turned off. To do this, from the properties of the network adapters, disable Internet Protocol Version 6 (TCP/IPV6) for each network adapter listed. Failure to do so will return an InvalidIP failure for the NetSetup command.
- When the *Netinfo* command is called, only the host network adapter is listed. [26732]
- The Network API can only report modes common to all monitors.

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## Matrox SMD-2

- The Appliance Configuration Utility (ACU) doesn't always detect all SMD cards on the subnet. Closing and restarting ACU may fix the problem. [26673]
- Hot connecting/disconnecting SMD-2 products to/from the Mura input connectors isn't supported. [26563]

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## HDCP support<sup>1</sup>

- HDCP is supported on a maximum of 10 cards.
- All monitors used in the current output desktop configuration must be HDCP compliant, turned on, and connected using an HDCP compliant cable. If HDCP capture isn't properly enabled, you may experience problems such as corruption on your outputs, monitors blinking periodically, streaming windows turning blue, and system freezes.
- Using HDCP repeaters on the Mura output connectors isn't supported.
- The *Preview surface* functionality of the Display Wall Library isn't supported on HDCP encrypted streams.
- Each HDCP encrypted stream can only be shown on a maximum of 11 downstream devices. Some source devices support less downstream devices.
- Moving a streaming window from one monitor to another while an HDCP encrypted stream is displayed will cause a monitor revalidation process (required for HDCP) and cause temporary image defects on the stream.
- HDCP sources won't stream protected content on a monitor currently on a revocation list.

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<sup>1</sup> Certain limitations may apply. Matrox strongly recommends that you review the HDCP website ([www.digital-cp.com](http://www.digital-cp.com)) and make sure you understand your legal obligations and responsibility.

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# Driver installation

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## Before you begin

- Windows 7 Professional Edition 64-bit or Windows Server 2008 R2 64-bit must be installed in your system.
- Remove any existing non-Matrox graphics hardware installed in your system. If graphics hardware is built into the motherboard of your computer, make sure it's disabled.
- Make sure all the latest hot fixes for Windows 7 are installed on your system. For improved stability under Windows 7 and Windows Server 2008 R2 (XDDM mode), you must install the Microsoft KB980731 hot fix.
- Make sure you have administrator rights on your system. You need administrator rights to install certain software and change certain settings.
- If you're running the *Appliance Configuration Utility (ACU)* under Windows Server 2008 R2, make sure you enable the services for *SSDP Discovery* and *UPnP Device Host*.

Windows Server 2008 R2 – To enable services:

- 1 Install the *Appliance Configuration Utility*.
- 2 Once installed, right-click **Computer**, then select **Manage**.
- 3 Under **Configuration**, click **Services**.
- 4 In the list, find *SSDP Discovery*, then right-click it and select **Properties**.
- 5 Next to **Startup type**, choose **Automatic**, then click **Apply**.
- 6 Under **Service status**, the buttons will become enabled. Click **Start** → **OK**.
- 7 Repeat steps 4-6 for *UPnP Device Host*.

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## Setting up your Mura system

- 1 Install and connect your Mura card(s).
- 2 Install the Matrox drivers provided. This may take several minutes. Don't shut down or turn off your system until the installation is complete.



**Note:** The driver installation automatically disables Windows UAC (User Access Control). For information on enabling or disabling Windows UAC, see your Windows documentation.

- 3** Run PowerDesk to configure your desktop layout (multi-display setup). You must use stretched mode for your desktop layout.

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You can get technical assistance by contacting Matrox technical support at [dwcsupport@matrox.com](mailto:dwcsupport@matrox.com).



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