

# Matrox™ Release Notes

Matrox Display Wall Driver for Linux®

Software version 3.01.00

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2018.07.20

[www.matrox.com/graphics](http://www.matrox.com/graphics)

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# Overview

This document describes the current release of the Matrox Display Wall drivers (v3.01.00) for Mura IPX Series and C-Series products for Linux® operating systems.

This driver holds for the following supported display wall configurations:

- Up to 2× C680 cards
- Up to 2× C680 + multiple Mura IPX Series 4K capture cards
- Third party graphics hardware + multiple Mura IPX Series 4K capture cards

Matrox provides these notes to describe bug fixes and improvements to the software, API, and driver.

## Operating system support

This release supports the following configurations and operating systems combinations.

- Up to 2 C-Series C680 standalone and up to 2 C-Series C680 + multiple Mura IPX Series 4K capture card configurations:
  - Supports the following distributions of Ubuntu®: 14.04, 14.04.1, 14.04.2, 14.04.3, and 14.04.4
    - Supports X version 1.17.2
    - Supports kernel version 4.2.x
  - Supports CentOS™ version 7.2
    - Supports X version 1.17.2
    - Supports kernel version 3.10.0
- Third party graphics hardware + multiple Mura IPX Series 4K capture card configurations:
  - Supports Ubuntu® version 16.04
    - Supports X version 1.18.3
    - Supports Kernel version 4.4.0
  - Supports CentOS™ version 7.4
    - Supports X version 1.19.3
    - Supports kernel version 3.10.0

## What's new in this release

This release of the Mura driver adds support for the following features and options:

- Support for RTP, MPEG-2 TS, and SRT streaming protocol for IP decoding.
- Supports the decoding of Extio 3 Series - 4:4:4 streams (up to and including 4K30). Extio3 version 1.00.05 or later is supported.
- Support for SDP (Session Description Protocol) with RTP streaming protocol.
- Added the /ALL parameter to the NetAPI command Source.
- Support for Low-Latency decoding.
- Support for NVIDIA® third party graphics hardware.
- General stability improvements.
- General bug fixes.

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# Notes and limitations

## Known general limitations

The following are known issues that may be fixed in a future release:

- Third party graphics hardware is supported only if one or more Mura IPX Series cards are present in the system.
- Only the following third party graphics hardware can be used for your display wall output:
  - NVIDIA® M4000 (4× NVIDIA® M4000 + sync card)

The list of supported third party brand and models will grow over time. If you have a specific request, contact us at [DWCSupport@matrox.com](mailto:DWCSupport@matrox.com).

- Xinerama is unsupported.
- Console displays are unsupported with C-Series and third party graphics hardware on Linux-based controllers.
- Alpha blending is unsupported.
- The render rate may be affected if the outputs don't all use the same refresh rate.
- Some systems may exhibit bus transfer performance issues.
- Encoding on Mura IPX Series encode cards is unsupported on Linux-based controllers.

## Known limitations with Mura IPX Series cards

The following are known issues while using Mura IPX Series cards.

- If static IP addressing is used, your network must have a time server for the Mura IPX Series card to function properly.
- Interlaced video is currently unsupported on Mura IPX Series.
- Hardware dip switches are currently unsupported on the Mura IPX Series cards.

## Known issues and limitations with the Network API interface

The following are known issues and limitations when using the Network API interface:

- Not all Network API commands are supported in all supported display wall hardware configurations. For a complete list of supported commands, see the Capabilities functionality in the Network API.
- Alpha blending, color keying, transitions, previews, and effects are unsupported on Linux-based video walls.
- The Network API can only report modes common to all monitors.
- The `SetSourceImageOverlay` and `AddSourceTextOverlay` commands are unsupported with inputs or source applications running on the host system.
- HTTPS communication with the Network API is unsupported.
- IP source resolution information may return 0 for width and height.
- Source image overlay may not be placed in the right position and may bleed out of a window surface.
- Source text overlay doesn't scale accordingly when a window is being resized.
- Shutting down the system while streams are up on the wall is unsupported.
- For the `StartNoBackground` command, the parameter `NoWindowsFrame` is unsupported.
- For the `Source` command, the parameter `/Available` is unsupported.
- Marquee text transparency is unsupported.

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# Driver installation

## Before you begin

- Make sure the correct operating system is installed.
- Make sure you're running as root as this will be required for the installation of the drivers.
- Make sure the necessary exceptions are added to your firewall to allow network communications. The Network API uses port 23 for telnet communications.

## Setting up a controller using C-Series products (with or without Mura IPX Series 4K capture cards)

- 1 Install and connect your C-Series C680 and Mura IPX Series cards.
- 2 For installation instructions, read the correct *readme* file for your operating system included in your software package.

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# Contact us

The Matrox web site has product literature, press releases, technical material, a sales office list, trade show information, and other relevant material. Visit us at [www.matrox.com/graphics](http://www.matrox.com/graphics).

If you have any questions or comments about our products or solutions, contact us at [www.matrox.com/graphics/contact](http://www.matrox.com/graphics/contact).

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

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