



## ClipStore Playback Settings

This application note applies to XPression Clips or turnkey machines with the XPression Clips Option.

This application note describes a setting change that can provide optimized clip playback, especially when playback is occurring at the same time an INcoder that is running on a different machine might be sending clips to the Clip Store.

★ If using the XPression INcoder, it is NOT recommended to run the INcoder on the same machine as the Clip Store/Clips/Studio with Clips Option if encoding with the INcoder will be occurring simultaneously with clip playback.

### Clip Store Version

The Clip Store should be running version 6.0 build 3325 or higher.

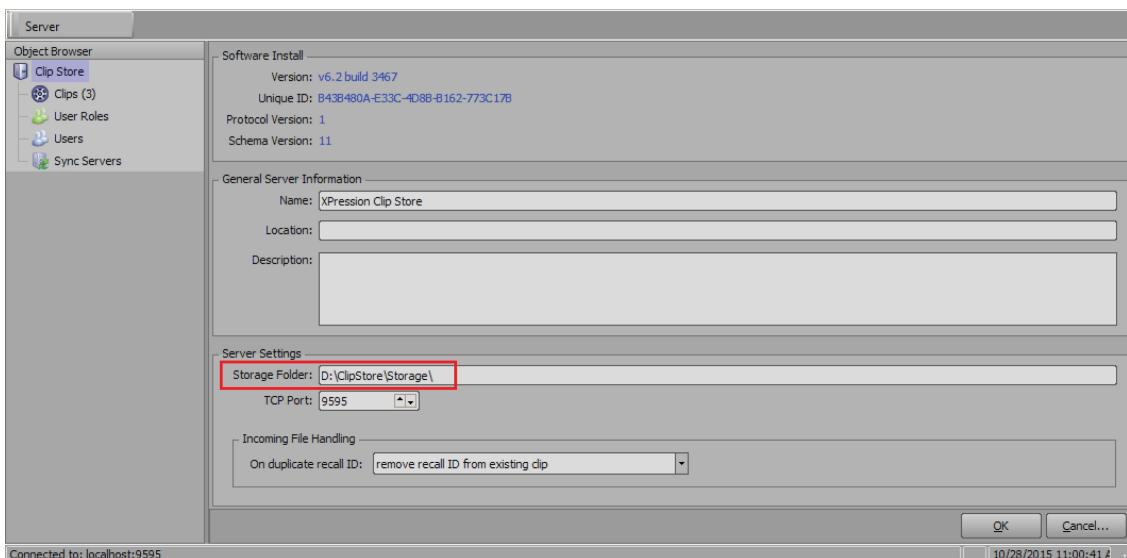
### Clip Store Configuration

- If using Clip Store v6.1 build 3428 or higher, by default the Clip Store will create a storage folder on the D:\ media drive where the clips and thumbnails will be stored. The default path is D:\ClipStore\Storage\.

If the machine does not use a D:\ media drive, the default path will be C:\Program Files (x86)\XPression Clip Store\Storage\.

- If using a Clip Store version prior to v6.1 build 3428, by default the Clip Store will create a storage folder on the C:\ drive where the clips and thumbnails will be stored. The default path is C:\Program Files (x86)\XPression Clip Store\Storage\.

It is recommended that the Clip Store be configured to store clips on the D:\ media drive, if available. Ideally, this would be done during initial configuration before any clips have been ingested into the system. The storage folder can be configured in the Clip Store manager.



# XExpression

If the storage folder is being changed after clips have already been ingested into the system, you will need to manually copy the contents of the D:\ClipStore\Storage\ or C:\Program Files (x86)\XExpression Clip Store\Storage\ to the new folder. A warning will be presented to remind you to do so:



The new path should contain three subfolders: **Clips**, **Thumbnails**, and **Flipbooks**.

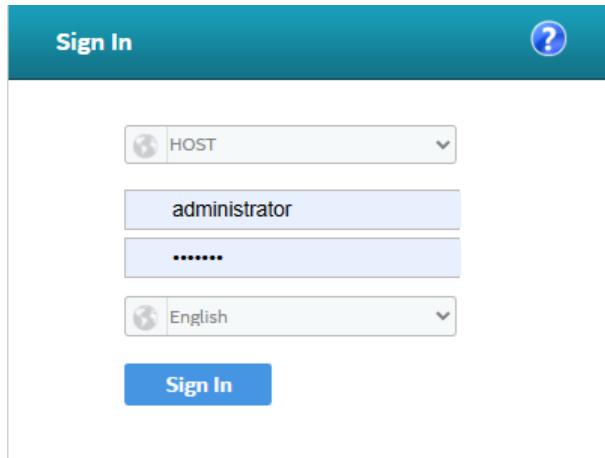
The Clip Store must be restarted after changing the storage folder location.

## RAID Configuration

It is recommended to change the caching settings on the RAID controller to provide more consistent read/write performance which can avoid stuttering when clip playback and ingest is occurring simultaneously.

1. In **Windows**, double click the **Launch LSA** (LaunchLSA) desktop icon.

The **Login** window opens.

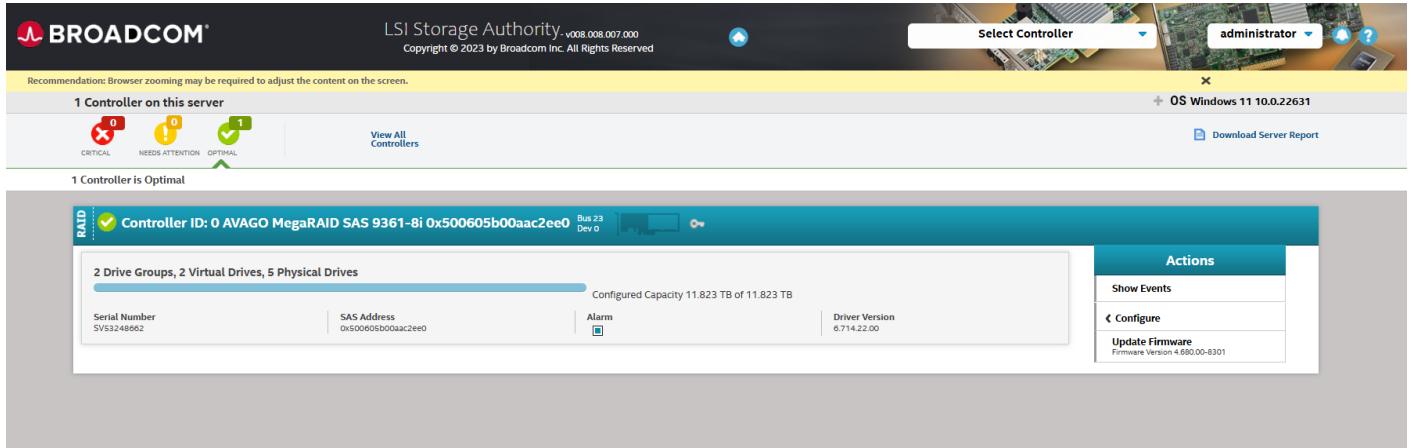


2. Use an administrator account to login.

# XPression

### 3. Select **Sign In**.

The **Main Screen** opens.



LSI Storage Authority - v008.008.007.000  
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1 Controller on this server

1 Controller is Optimal

RAID Controller ID: 0 AVAGO MegaRAID SAS 9361-8i 0x500605b00aac2ee0 Bus 2a Dev 0

2 Drive Groups, 2 Virtual Drives, 5 Physical Drives

Configured Capacity 11.823 TB of 11.823 TB

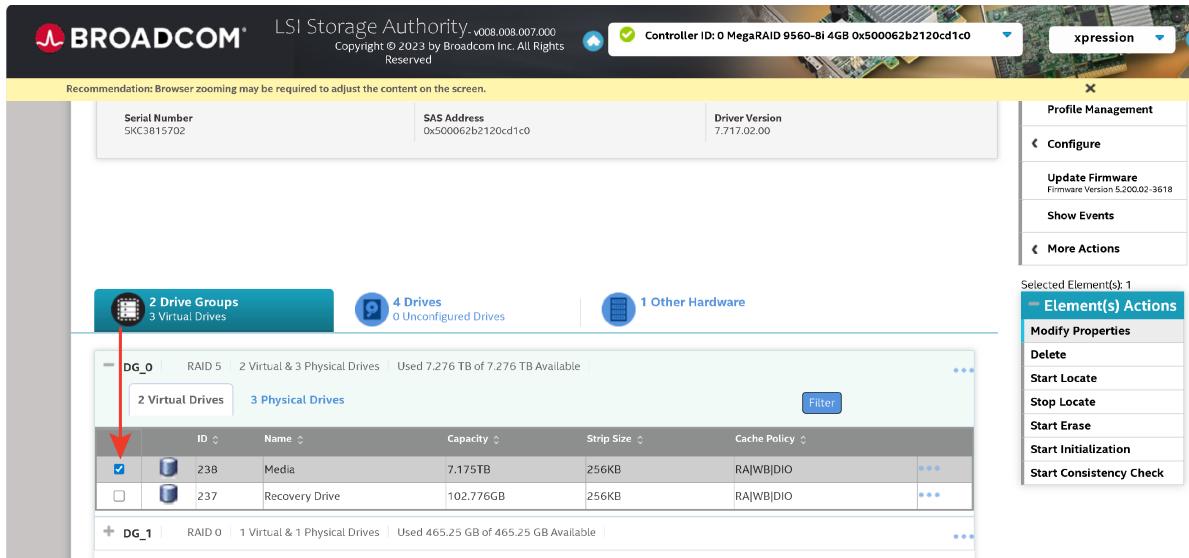
Serial Number: 5VS3248662 | SAS Address: 0x500605b00aac2ee0 | Alarm: | Driver Version: 6.714.22.00

Actions

- Show Events
- Configure
- Update Firmware

Firmware Version 4.680.00-8301

### 4. Select the **Media** drive.



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1 Controller on this server

1 Controller is Optimal

RAID Controller ID: 0 MegaRAID 9560-8i 4GB 0x500062b2120cd1c0

2 Drive Groups, 3 Virtual Drives

4 Drives, 0 Unconfigured Drives

1 Other Hardware

DG\_0 RAID 5 | 2 Virtual & 3 Physical Drives | Used 7.276 TB of 7.276 TB Available

ID	Name	Capacity	Strip Size	Cache Policy
238	Media	7.175TB	256KB	RA WB DIO
237	Recovery Drive	102.776GB	256KB	RA WB DIO

DG\_1 RAID 0 | 1 Virtual & 1 Physical Drives | Used 465.25 GB of 465.25 GB Available

Actions

- Profile Management
- Configure
- Update Firmware
- Show Events
- More Actions

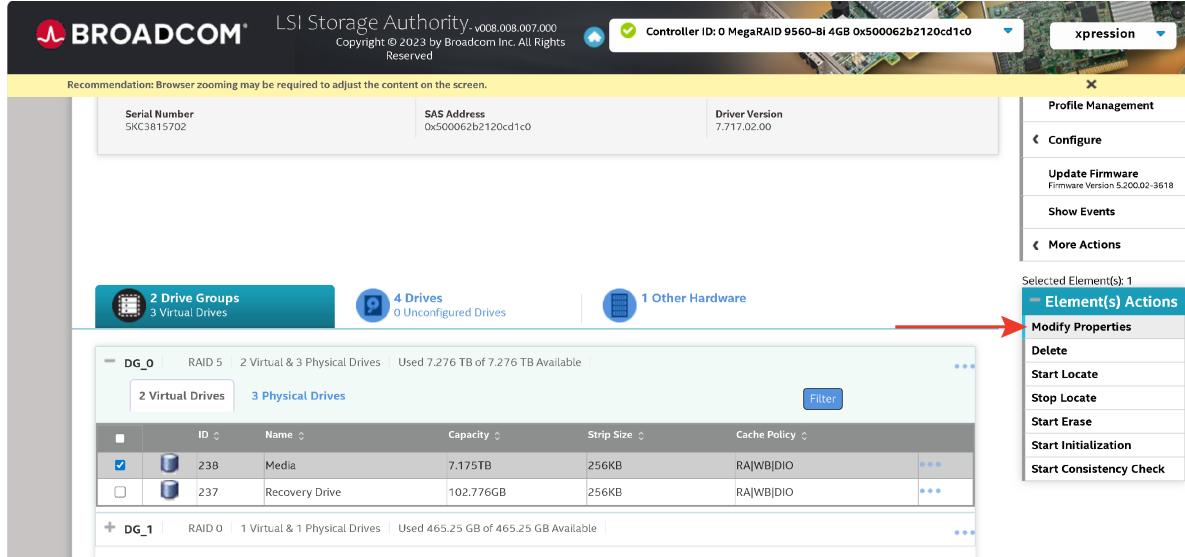
Selected Element(s): 1

Element(s) Actions

- Modify Properties
- Delete
- Start Locate
- Stop Locate
- Start Erase
- Start Initialization
- Start Consistency Check

# XPression

## 5. Select **Modify Properties** from the **Element(s) Actions**.

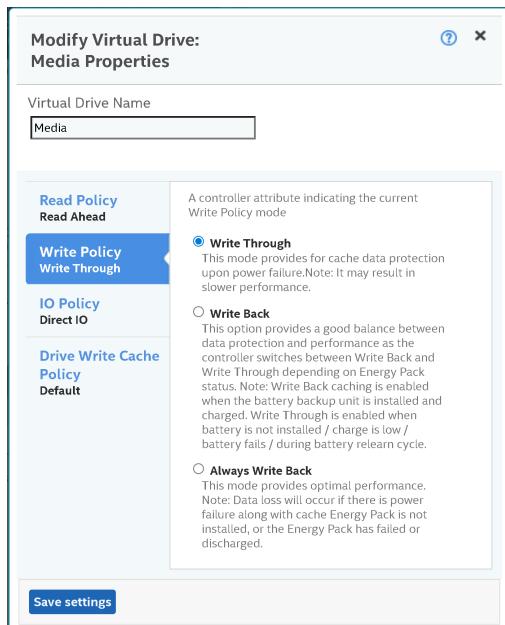


The screenshot shows the LSI Storage Authority interface. At the top, the Broadcom logo and the text "LSI Storage Authority v008.008.007.000" are visible. The top right corner shows "Controller ID: 0 MegaRAID 9560-8i 4GB 0x500062b2120cd1c0" and the word "xpression". The main interface displays "2 Drive Groups" (3 Virtual Drives), "4 Drives" (0 Unconfigured Drives), and "1 Other Hardware". On the right, a sidebar titled "Profile Management" shows "Update Firmware" (Firmware Version 5.200.02-3618) and "Show Events". A vertical menu on the right lists "Element(s) Actions" (selected), "Modify Properties" (highlighted in blue), and other options: "Delete", "Start Locate", "Stop Locate", "Start Erase", "Start Initialization", and "Start Consistency Check". A red arrow points from the "Element(s) Actions" menu item to the "Modify Properties" option.

The **Modify Virtual Drive: Media Properties** dialog opens.

## 6. In the **Modify Virtual Drive: Media Properties** dialog, do the following:

- Select **Write Policy**.
- Select the **Write Through** radio button.



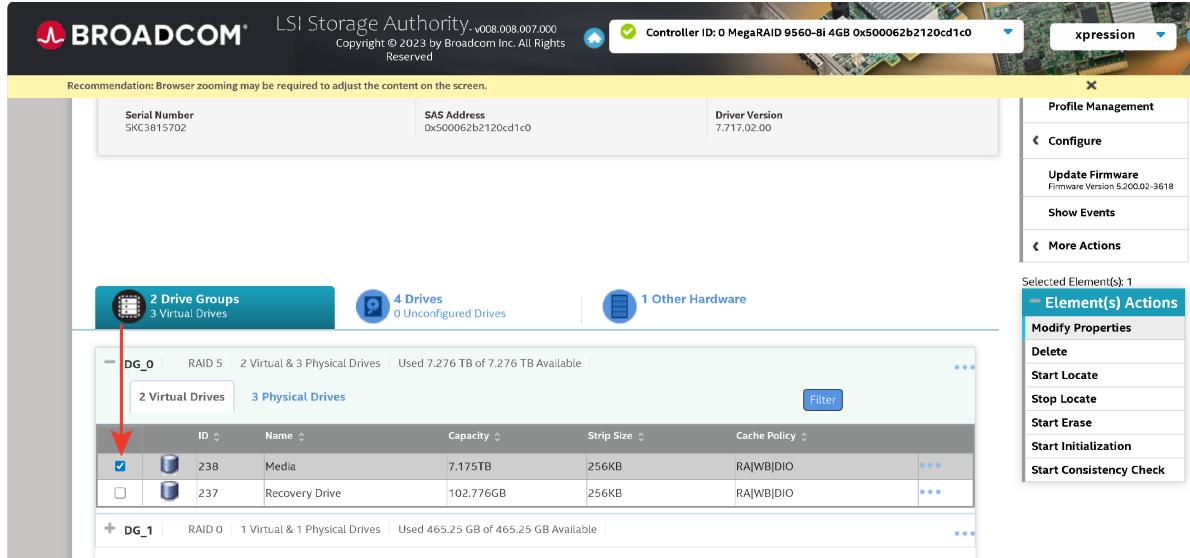
The screenshot shows the "Modify Virtual Drive: Media Properties" dialog. The title bar says "Modify Virtual Drive: Media Properties". The "Virtual Drive Name" field contains "Media". On the left, a sidebar lists "Read Policy" (Read Ahead), "Write Policy" (selected, Write Through), "IO Policy" (Direct IO), "Drive Write Cache Policy" (Default), and a "Save settings" button. The main panel shows the "Write Policy" section with "Write Through" selected. It describes this mode as providing cache data protection upon power failure but noting it may result in slower performance. It also lists "Write Back" and "Always Write Back" as alternative options. A note states that Write Back caching is enabled when the battery backup unit is installed and charged, while Write Through is enabled when the battery is not installed or charge is low/battery fails during a battery relearn cycle.

- Select **Save Settings**.

The **Modify Virtual Drive: Media Properties** dialog closes.

# XPression

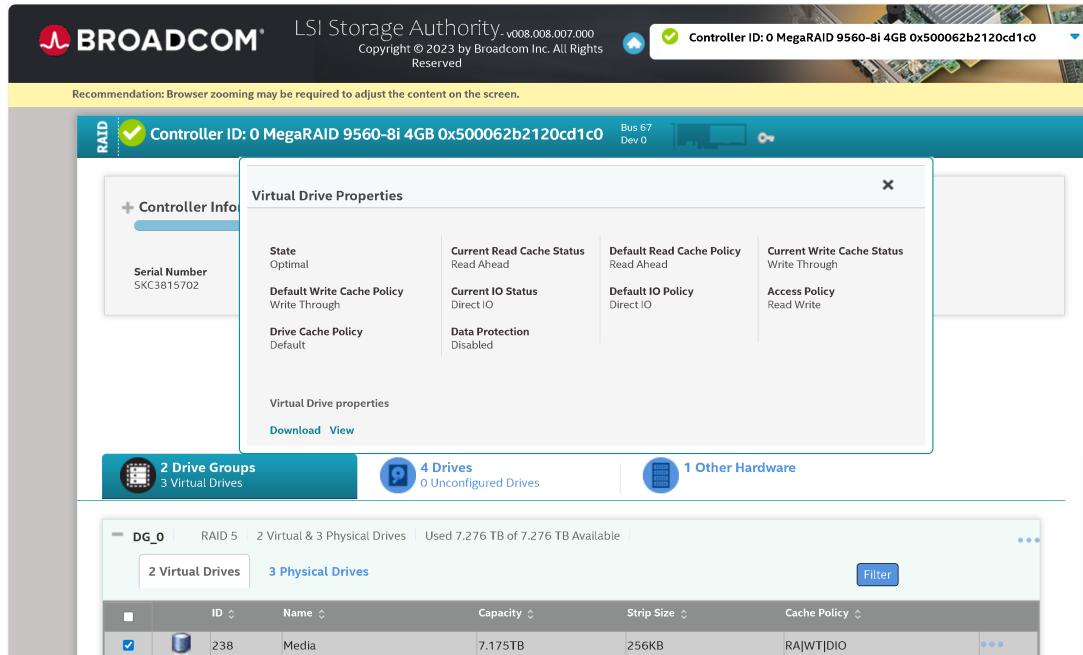
## 7. Select the **Media** drive.



The screenshot shows the LSI Storage Authority interface. At the top, it displays the Broadcom logo and the controller information: Controller ID: 0 MegaRAID 9560-8i 4GB 0x500062b2120cd1c0. The main interface shows 2 Drive Groups, 4 Drives, and 1 Other Hardware. Under DG\_0, there are 2 Virtual Drives and 3 Physical Drives. The 'Media' drive is listed with an ID of 238, a capacity of 7.175TB, and a cache policy of RA|WB|DIO. The 'Recovery Drive' is listed with an ID of 237, a capacity of 102.776GB, and a cache policy of RA|WB|DIO. A red arrow points to the checkbox next to the 'Media' drive in the list of virtual drives.

## 8. Select the **Virtual Drive Properties** button (...).

The **Virtual Drive Properties** dialog opens.



The screenshot shows the LSI Storage Authority interface with the Virtual Drive Properties dialog open for the 'Media' drive. The dialog displays the following settings:

<b>State</b> Optimal	<b>Current Read Cache Status</b> Read Ahead	<b>Default Read Cache Policy</b> Read Ahead	<b>Current Write Cache Status</b> Write Through
<b>Default Write Cache Policy</b> Write Through	<b>Current IO Status</b> Direct IO	<b>Default IO Policy</b> Direct IO	<b>Access Policy</b> Read Write
<b>Drive Cache Policy</b> Default	<b>Data Protection</b> Disabled		

Below the dialog, the main interface shows the RAID configuration for DG\_0, listing the 'Media' drive with an ID of 238, a capacity of 7.175TB, and a cache policy of RA|WT|DIO.

## 9. Verify that the **Current Write Cache Status** is set to **Write Through**.