

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.

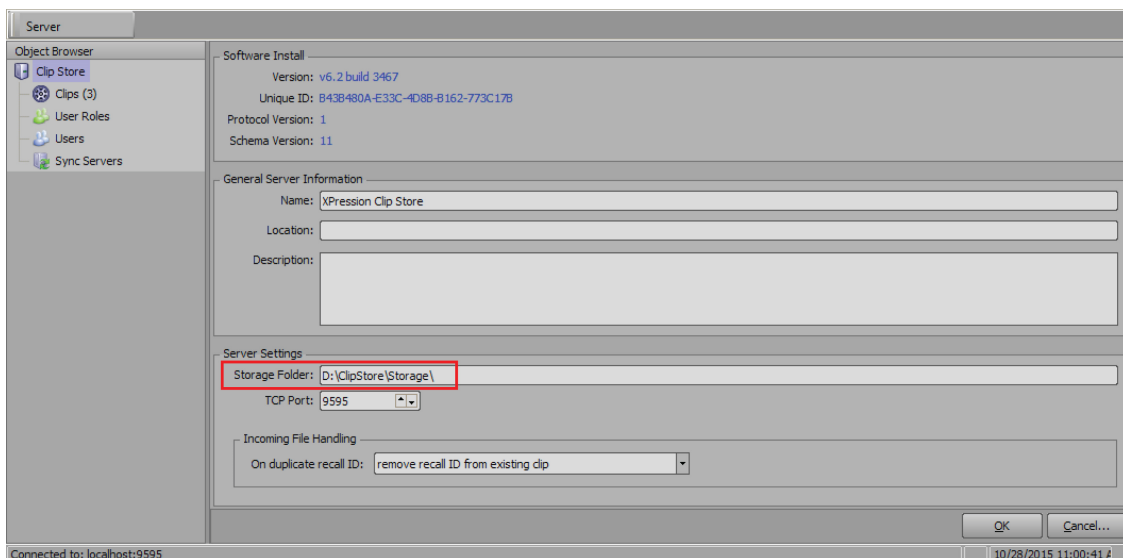
Clip Store Configuration

- 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\.

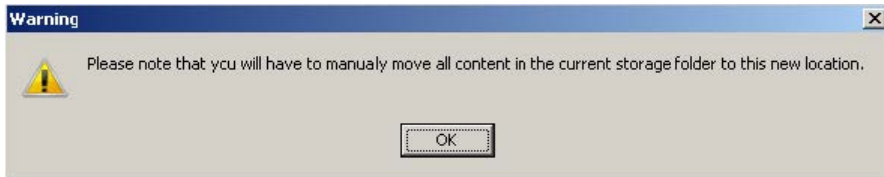
If the machine does not use a D:\ media drive, the default path will be C:\Program Files (x86)\XPression Clip Store\Storage\.

- 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.



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)\XPression 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**.

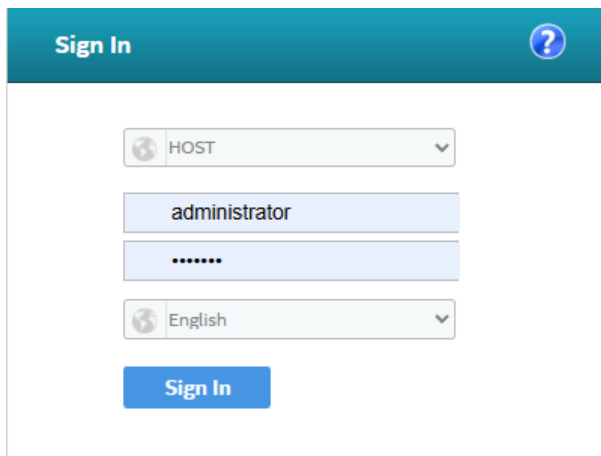
The Clip Store must be restarted after changing the storage folder location.

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.

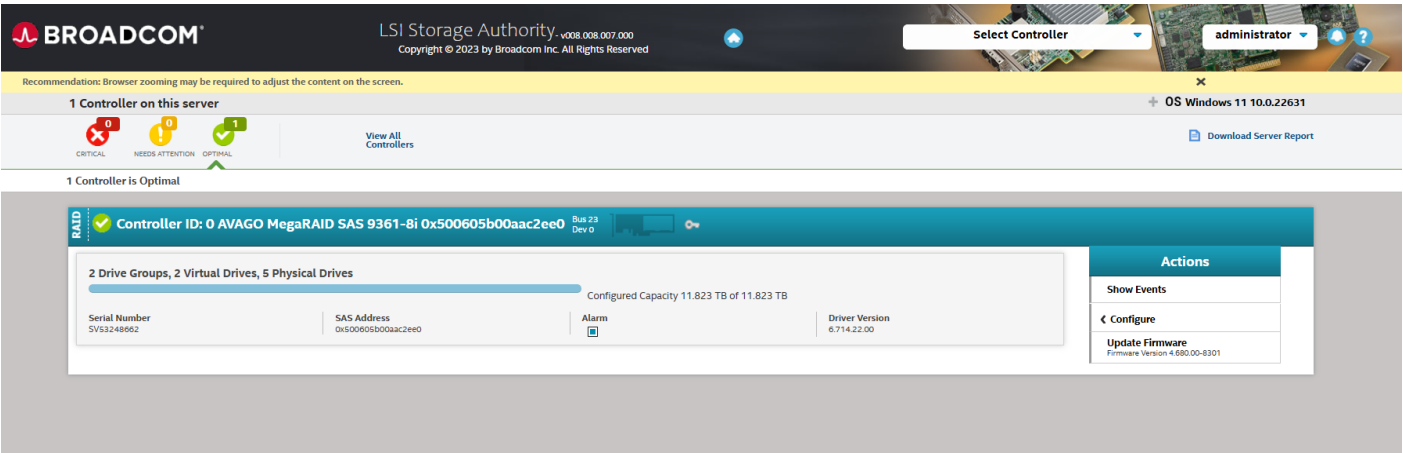
1. In **Windows**, double click the **Launch LSA** () desktop icon.

The **Login** window opens.

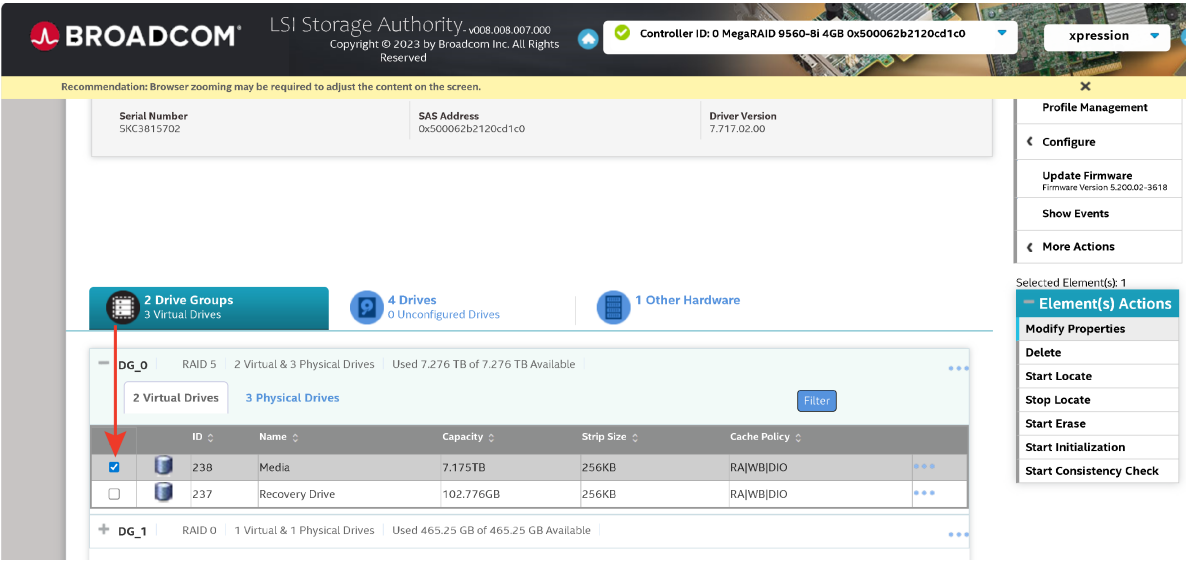
A login window titled "Sign In" with a question mark icon. It contains four input fields: a dropdown menu with "HOST", a text field with "administrator", a password field with ".....", and a dropdown menu with "English". Below these fields is a blue "Sign In" button.

2. Use an administrator account to login.

3. Select **Sign In**.
The **Main Screen** opens.



4. Select the **Media** drive.



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

Recommendation: Browser zooming may be required to adjust the content on the screen.

Serial Number: SKC3815702 | SAS Address: 0x500062b2120cd1c0 | Driver Version: 7.717.02.00

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

Selected Element(s): 1

- Element(s) Actions
 - Modify Properties
 - Delete
 - Start Locate
 - Stop Locate
 - Start Erase
 - Start Initialization
 - Start Consistency Check

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

6. In the **Modify Virtual Drive: Media Properties** dialog, do the following:
 - a. Select **Write Policy**.
 - b. Select the **Write Through** radio button.

Modify Virtual Drive: Media Properties

Virtual Drive Name: Media

Read Policy: Read Ahead

Write Policy: Write Through

IO Policy: Direct IO

Drive Write Cache Policy: Default

Write Through
This mode provides for cache data protection upon power failure. Note: It may result in slower performance.

Write Back
This option provides a good balance between data protection and performance as the controller switches between Write Back and Write Through depending on Energy Pack status. Note: Write Back caching is enabled when the battery backup unit is installed and charged. Write Through is enabled when battery is not installed / charge is low / battery fails / during battery relearn cycle.

Always Write Back
This mode provides optimal performance. Note: Data loss will occur if there is power failure along with cache Energy Pack is not installed, or the Energy Pack has failed or discharged.

Save settings

- c. Select **Save Settings**.

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

7. Select the **Media** drive.

The screenshot shows the LSI Storage Authority XPression interface. At the top, the controller ID is 0 MegaRAID 9560-BI 4GB 0x500062b2120cd1c0. Below this, there's a summary section with 2 Drive Groups (3 Virtual Drives), 4 Drives (0 Unconfigured Drives), and 1 Other Hardware. A red arrow points to the 'Media' drive in the table below.

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

On the right side, the 'Element(s) Actions' menu is open, showing options like 'Modify Properties', 'Delete', 'Start Locate', 'Stop Locate', 'Start Erase', 'Start Initialization', and 'Start Consistency Check'.

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

The **Virtual Drive Properties** dialog opens.

The screenshot shows the LSI Storage Authority XPression interface with the 'Virtual Drive Properties' dialog box open. The dialog displays various settings for the selected drive (ID 238, Name Media).

Property	Value
State	Optimal
Current Read Cache Status	Read Ahead
Default Read Cache Policy	Read Ahead
Current Write Cache Status	Write Through
Default Write Cache Policy	Write Through
Current IO Status	Direct IO
Default IO Policy	Direct IO
Drive Cache Policy	Default
Data Protection	Disabled
Access Policy	Read Write

The background interface shows the same drive table as before, with the 'Media' drive selected.

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