

Release Notes

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BrightSign®

FIRMWARE RELEASE NOTES

Version 7.1.49

(BrightSign XTx44, XDx43, XTx43, XDx33, HDx23, LS423, 4Kx42, XDx32, HDx22)

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Changes Since 7.0.60

End-User Notes

New Features

- Support for HDCP 2.2 ([Series 3 / Series 4 only](#)): *This is a Beta feature and not currently recommended for production environments.*

Improvements

- The speed at which data is unzipped to an exFAT-formatted drive has been improved.
- Players now work with very large (e.g. 4TB) USB storage devices formatted as exFAT.

Bug Fixes

- 30269: The HDMI input signal no longer becomes distorted after switching away from a presentation that displays portrait HDMI Input (at 1080x1920x60p/i) and back to it.
- 30405: Remote Snapshot now works with presentations that display both HDMI input and a second video source.
- 30437: Video wall slave units running v7.x firmware will now synchronize correctly with master units running v6.x firmware. Note however that the reverse configuration (v7.x master controlling v6.x slaves) is not supported.

- 30708: Video Timecode events no longer trigger twice during a video that has been paused/played.
- 30774: Support for BT.2020 CL output has been disabled. This fixes a problem where 3840x2160 output would appear with a purple tint on certain Sony displays.
- 30271: PNG files with excessively large metadata sections no longer cause players to crash.
- 30136: (HO523) IR input via the blue 3.5mm jack now works correctly.

Developer Notes

New Features

- New *BSVideoMode.SetSyncManager()* method, which allows you to enable Genlock via JavaScript
- New *storageinfo* JavaScript object, which provides usage information for storage devices
- New `Pause()` and `Resume()` methods on the *BSTicker* JavaScript object
- New `Raise()` and `Lower()` methods for BrightScript objects that implement the *ifWidget* interface (*roTextWidget*, *rolmageWidget*, etc.). This allows for detailed z-order control of the graphics plane.
- New *roNetworkConfiguration.SetForwardingPolicy()* method, which allows you to use the BrightSign player as a router for other networked devices
- New `x-bs-intrinsic-width` and `x-bs-intrinsic-height` attributes for HTML `<video>` elements: These ensure the aspect ratio of the source video is maintained when scaled to fit the element.
- New *roVideoMode.SetHdmiMetadata()* method

- Support for the 1200x1920x60p resolution
- (XTx44, XTx43, XDx34, XDx33, 4Kx42) Support for the 3840x1080x25/30/50/60p resolutions

Improvements for all Hardware

- The *roNetworkConfiguration.ConfigureDhcpServer()* method now accepts "nameservers", "ip4_gateway", and "domain" parameters for DNS configuration.
- The *roJRE* Java runtime environment object has been updated to Java 8.
- The *roNetworkConfiguration* object can now be used to configure network interfaces that are not currently present. To do so, the network interface must be specified by name rather than numeric index.
- When the DHCP server is enabled on the player, you can now retrieve configuration information from the following DWS URLs: "http://<brightsign-ip>/dhcp-server.html" or "http://<brightsign-ip>/dhcp-server.txt".
- Node.js modules loaded with "require()" can now use BrightSign JavaScript objects.
- The Chromium Web Inspector can now perform memory heap dumps to an SD card or SSD device.
- The *roKeyStore* object can now be used to register client certificates for streaming media.
- The *SetLocalStorageDir()* and *SetLocalStorageQuota()* settings once again persist after an *roHtmlWidget* instance is destroyed.

- The *roHtmlWidget* object now generates a "download-request" event when Chromium encounters a MIME type it doesn't understand (e.g. a PDF), rather than attempting to download it. The event contains the download URL and the reported MIME type of the file.
- The Chromium engine can now create a dummy tab to initialize a PDF renderer.
- The *roHtmlWidget* storage methods and the `CreateDirectory()` global function now throw an exception if you attempt to create directories on storage drives that have not been mounted.
- Streaming video playback now supports AES-CBC decryption.

Bug Fixes

- 30686: The *roVirtualKeyboard* functionality has been fixed.
- 30696: The mechanisms for disabling external storage have been fixed.
- 30767: Bit errors in a DVB subtitle track no longer cause it to stop working after a certain amount of time.
- 30931: Issues with the region size or region ID of DVB subtitles no longer cause a crash.
- 29991: Node.js applications can now write files and create directories on SSDs that are formatted with the ext4 file system.
- 30352: Players no longer crash intermittently when using HTML to play streaming video containing numerous subtitles.

- 30942: Fixed *roHtmlWidget* download-performance issues when using a proxy that accepts HTTP connections but can get either HTTP or HTTPS URLs.
- 30352: Players no longer crash intermittently when using HTML to play streaming video containing numerous subtitles.
- 30824: HTML video elements now correctly support “file:” URIs containing %20 encoded spaces.
- 30656: When using the pre-routed audio mode, the *roAudioPlayer.PlayFile()* method no longer returns `true` if there are no audio decoders available to play a track.
- 30477: The player log no longer generates "No mapping for key 330" messages whenever a touch event is received from certain HID touchscreens.
- 30812: Crash dumps generated by the player will now report the correct time and date (though this is not guaranteed in all instances).
- 30825: Taking frequent screen captures no longer causes a crash.
- 30231: Attempting to output USB audio from an HDMI input source no longer causes the player to crash.
- 30232: USB audio glitches no longer occur when system memory is heavily taxed.
- 30161: Players now correctly read character strings from the NephSystem N380 RFID reader/writer.
- 30666: The *roAssetFetcher* and *roSyncPool* objects once again work when assets lack the `<size>` parameter.

- 30033: The *roAssetFetcher* object now correctly resumes large file downloads after a power cycle (in-progress downloads are written to storage every 15 minutes).
- 30137: Enabling the WiFi interface no longer creates the possibility that Ethernet VLANs will be disconnected when the player reboots.30107: Passing an empty associative array to the *roNetworkConfiguration.ConfigureDHCPServer()* method now correctly disables the DHCP server.
- 30381: Rendering speed for *roCanvasWidgets* containing large numbers of text fields has been improved.
- 30107: Passing an empty associative array to the *roNetworkConfiguration.ConfigureDHCPServer()* method now correctly disables the DHCP server.

Improvements for Series 2 Hardware only

- 30777: Fixed a crash related to large (2048x4096) textures in HTML.