BrightSign®

BRIGHTAUTHOR USER GUIDE

Software Version 3.5

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CHAPTER 1 – GETTING STARTED

What is BrightAuthor?

BrightAuthor is a software application that helps you create and publish digital-signage presentations for BrightSign players. You can play BrightAuthor presentations on any of the following BrightSign models: XD230, XD1030, XD1230, HD120, HD220, HD1020, HD110, HD210, HD210w, HD410, HD810, HD1010, HD1010w, and TD1012. Your presentations can include any of the following types of content:

- Images
- Pre-recorded videos
- Live videos: Supported on the XD1230, as well as the HD810, HD1010, HD1010w (in conjunction with the Live Video Module accessory)
- Audio
- RSS and Twitter feeds
- Dynamic playlists
- SignChannel: Supported on the HD210, HD210w, HD220, HD1010, HD1010w, HD1020, XD230, XD1030, XD1230, and TD1012
  Note: *Subscription is required. Go to* http://www.signchannel.com/ *for details.*
- Text
- Date and time

What Kind of Presentations Can I Create?

You can create two types of presentation with BrightAuthor:

- Non-Interactive: A slideshow of media (images, video, audio) that plays in a continuous loop. You can play non-interactive presentations on all BrightSign models.
- Interactive: A presentation that transitions between media based on input from a user via a button board, remote control, or a similar input device. All models except the HD110 support at least one type of interactive event. The

types of interactive event supported by a player depend on the connectors and inputs that player has (for example, players with a USB 2.0 port support touch screen and button board events, and players with an Ethernet port support UDP events).

What Type of Screen Layouts Can I Use?

You can choose from a variety of ready-to-use layout templates or create your own template. Layout templates fall into two basic categories:

- Full Screen: A slide show of media that occupies the full screen.
- Multi-Zone: A presentation with different types of content in separate regions of the screen. The screen can include one video or background image zone, and multiple Clock, Text, Ticker, and Image zones.

Step 1: Get the Hardware You Need

To create and play presentations with BrightAuthor, you need the following:

- Windows PC
- BrightSign player
- Display
- Storage card
- Card reader/writer (optional if using USB storage)
- Input device (optional)

Windows PC – Any Windows PC that meets or exceeds the following *minimum* requirements:

- 2.3 GHz CPU
- 2 GB RAM required (4 GB recommended)
- 100 MB available hard disk space for program files (additional disk space required if storing content and/or presentations on your hard disk)
- One of the following operating systems:
  - Windows Vista 32 or 64 bit

o Windows 7 32 or 64 bit

BrightSign – Any of the following models with firmware version 3.10.6 or later:
- HD110
- HD210 and HD210w
- HD410
- HD810
- HD1010 and HD1010w
- TD1012

Any of the following models with firmware version 4.2.25 or later:
- HD120
- HD220
- HD1020

Any of the following models with firmware version 4.2.20 or later
- XD230
- XD1030
- XD1230

Display – Any monitor, TV, or Elo touch screen with one of the following types of inputs:
- VGA
- Component (supported on HD810, HD1010, HD1010w, XD230, XD1030, and XD1230)
- HDMI

Storage for Media – Either of the following:
- USB Flash Drive (supported on HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230)
- SD card

- SDHC card
- SDXC card (supported on HD120, HD220, HD1020, XD230, XD1030, and XD1230)

Card Reader/Writer – Not required if using a USB flash drive. The card reader/writer must be connected to your PC and must be compatible with your storage card.

Input Device – All models except HD110. One or more of the following types of input devices:
- Touch screen equipped with a touch controller that supports the standard HID specification. See this link for a list of all supported touch controllers (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230).
- BrightSign's BP200 and BP900 USB button panels (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230)
- Many brands of USB Keyboards (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230)
- Many brands of USB Mouse or Trackballs (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230)
- Many brands of USB Bar Code Scanners. (supported on HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230)
- Quadravox Serial Button Board
- AMX, Crestron, and similar control devices (serial & Ethernet)
- Any GPIO (open/close contact switch) button, signal, or LED (your custom board or LED display)
- PC (via serial port)
- IR remote control using the NEC Remote Control Protocols (HD810, HD1010, HD1010w, and HD1020 only). You can purchase a compatible remote from BrightSign (see Appendix A for remote control codes).

Step 2: Install the BrightAuthor Software

Download the latest software and install it on your PC.
1. Go to the BrightSign web site: www.brightsign.biz/support.
2. Click the **BrightAuthor Downloads** link.
3. Follow the onscreen instructions to install the software on your PC.

Note: *BrightAuthor requires the latest version of Microsoft .Net Framework. If this component is not already on your PC, BrightAuthor installs it during the installation. However, if BrightAuthor needs to install Microsoft .Net Framework, the installation may take up to 45 minutes to complete and you may need to restart your PC to complete the installation process.*

Step 3: Launch BrightAuthor

1. Double-click the **BrightAuthor** icon on your desktop.
2. (Optional) If prompted, sign in to BrightSign Network (account required). See Publishing with BrightSign Network.

Step 4: Set up your BrightSign player

1. Depending on how you want to publish your presentations, create the appropriate setup files for your BrightSign units.
2. Insert the SD card or USB flash drive that contains the setup files into the BrightSign.
3. Connect your BrightSign to a display.

Step 5: Add your Content

Your BrightAuthor presentations can include the following types of media files:

Video files - BrightSign players support the following video file encodings/compressions:

- MPEG-2 (can be saved as an .mpg, .ts, or .vob container)
- MPEG-1 (can be saved as an .mpg container)
- H.264 (MPEG-4, Part 10) (can be saved as a .mp4, .mov, or .ts container)

For further details on video file encoding and support, see the support page on the BrightSign website.

Audio files – BrightSign players support the following audio formats:

- AAC (LC - Low complexity profile) at Constant Bit Rate, as part of a video file (.mp4, .mov, or .ts) at 44.1 KHz, 48 KHz

- MP2 (MPEG-1 Layer 2) at Constant Bit Rate, as part of a video file (.mpg, or .ts) at 44.1 KHz, 48 KHz
- MP3 at Constant Bit Rate, 44.1 KHz, 48 KHz, 32 KHz at up to 224 Kbps bitrate, as a standalone file (i.e. not encoded as an audio track in a video file)
- AC3 5.1 passed through (un-decoded, RAW data) HDMI. Audio streams in this format are supported by BrightSign players, but will require an AC3 decoder (HDMI AV receiver).
- WAV

Image files - For still images, use BMP, PNG, or JPEG files. The maximum supported resolution is 1920x1080.

> **Note**: *BrightSign players do not support JPEG image files with CMYK color profiles. You can convert your CMYK JPEGs to RGB JPEGs using this free [web-based converter](#).*

Step 6: Create your Presentations

Now you're ready to start using BrightAuthor to create presentations. Just add your content and follow the directions in the next chapter of this guide to create your presentations.

Step 7: Publish your Presentations

After creating presentations, use the publishing feature to deliver them to your BrightSign players. See [Publishing Presentations](#) for details.

CHAPTER 2 – SETTING UP UNITS

Before you can create and publish presentations, you must first set up your BrightSign players. How you set up your units will depend on how you want to publish presentations to the players. If you're using BrightSign Network, Local Networking, or Simple File Networking to publish your presentations, you must set up your BrightSign units by adding them to your network. Alternatively, you can set up BrightSign players for use as standalone units that are not connected to a network. With this option, you would have to manually update the BrightSign player's storage (SD card or USB flash drive) each time you want to update presentations. For more details on each of the publishing methods, see [Publishing Presentations](#).

To set up a player, you need to create setup files in BrightAuthor and add those files to a storage device (SD card or USB flash drive). Next, insert the storage into the BrightSign player. Keep in mind that this storage *must remain inside the BrightSign*. BrightSign units have no internal storage and therefore cannot receive content without a storage device connected. Once the storage device (typically an SD card) is inserted, your BrightSign player is ready to receive and play presentations.

Adding a Player to your BrightSign Network

To publish and manage presentations using BrightSign Network, you must first contact [BrightSign](#) to obtain an account name, user name, and password.

After you obtain your account credentials, you can create the setup files for each unit. The setup files provide details about what your network and BrightSign Network connections are, where the presentations associated with the selected group are stored, and when the presentations are scheduled.
1. Sign in to your BrightSign Network account.
   a. In the BrightAuthor menu bar, click **Tools** > **Sign in to BrightSign Network**.
   b. If prompted, enter your **Account, User name,** and **Password**, and then click **Sign In**.

2. On the menu bar, click **Tools** > **Setup BrightSign Unit**.
3. Under **Name Specification**, do the following:
    a. Enter a **Name** and **Description** for this unit.
    b. Select whether you want to append the unit ID to the name or use only the name.

BrightSign Unit Setup

Name Specification

Name: Player 1

Description:

Customization:
- ○ Use name only
- ● Append unit ID

Network Properties
- ☐ Enable wireless

SSID:

Security key:

Network Connection Priority
- ⬆ ⬇ Wired
- ⬆ ⬇ Wireless

[Advanced Network Setup]

Time zone: PST: US Pacific Time

Time server: http://time.brightsignnetwork.com

Firmware

[Specify Firmware Update]

Unit Configuration
- ☑ Enable diagnostic web server

Diagnostic Server Authentication (optional)

User name: admin

Password:

- ☑ Enable local web server

Local Web Server Authentication (optional)

User name:

Password:

- ○ Standalone
- ○ Networked with Local File Networking
- ● Networked with the BrightSign Network
    - Group: CA Los Gatos
    - Content Check Frequency: Every 5 minutes
    - Update Health Frequency: Every 15 minutes
- ○ Networked with Simple File Networking

Logging
- ☑ Enable playback logging
- ☑ Enable event logging
- ☑ Enable state logging
- ☑ Enable diagnostic logging

Upload logs
- ☑ On startup
- ☐ At specific time each day

Upload time: 19 : 20

Relative URL for log handler: (e.g., loghandler.php)

loghandler.php

[Create Setup Files] [Cancel]

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4. Under **Network Properties**, set the following:
   a. **Enable Wireless**: Check this box if you plan to connect to the local network using a wireless connection. In order to use a wireless connection, you must purchase a wireless model (HD210w, HD1010w) or purchase an [XD Wireless Module](#) for your BrightSign XD player. Enter the SSID and Security key if the network is secured.
   b. **Network Connection Priority**: Use the up and down arrows to prioritize either the **Wired** or **Wireless** connection. The BrightSign player will always attempt to download and upload using the first option. It will only use the second option if the first is unavailable.
   c. **Time zone**: Select the time zone where the unit is located.
   d. **Time server**: Select the clock for this unit.
5. Click the **Advanced Network Setup** button to customize advanced settings for your networked player. Specify the following in the **Unit Configuration** tab:
   a. **Use Proxy**: Check this box if you want to use a proxy server. Type the address and port number in the fields below.
   b. **Limit content downloads**: Check this box if you want to limit when the player downloads content. This is helpful if you want to limit network traffic at a certain time of day. Set a time frame during which content downloads can occur.
   c. **Limit health updates**: Check this box if you want to limit when the player sends health updates to the BrightSign Network. This is helpful if you know a player will be powered off or otherwise disabled during a certain time of day. Set a time frame during which health updates can occur.
   d. **Copy content from the current published schedule**: Check this box if you want BrightAuthor to copy the current published schedule to the storage device with the setup files. This is helpful if you don't want the player downloading large content files from the BrightSign Network right after it is set up.
6. Specify the following in the **Wired** and **Wireless** tab of the **Advanced Network Setup window**:
   a. **Data Types Enabled**: Use these checkboxes to determine the types of data that will be transferred using the connection. You can enable/disable both downloads (**Content**, **Text Feeds**, **Media Feeds**) and uploads (**Health**, **Log Updates**).

b. **Connection Settings**: Indicate whether the IP address is auto-generated or static. If you're using a static IP address, enter the parameters in the fields below.

c. **Rate Limit Network Download Traffic**: Set the parameters for downloading content. The options are divided into three categories: **Outside content download window** and **During content download window** (both of which correspond to the **Limit content downloads** setting in the **Unit Configuration** tab) , as well as **During initial downloads**.

   o Click **Unlimited download rate** to set no limit.

   o Click **Default limit** to use the default limit on downloads.

   o Click **Specify limit** to enter a customized limit on downloads in the text field (in Kbits/second).

7. Click **Specify Firmware Update** to indicate whether you want to update the firmware and to which version. The Firmware Update window is divided by BrightSign model. In the section that corresponds to your BrightSign unit, select a firmware version or select **Do not update**, and then click **OK**.

8. Under **Unit Configuration**, click **Networked with BrightSign Network**, and then specify the following:
   a. (Optional) **Enable diagnostic web server**: Check the checkbox to enable the diagnostic web server. You can include a username and password in the text fields below for added security.
   b. (Optional) **Enable local web server**: Check the checkbox to enable the local web server. You can include a username and password in the text fields below for added security.
   c. **Group**: Use the dropdown list to select a group for the unit. Groups allow you to publish presentation schedules to multiple units simultaneously. See [Managing groups](#) and [Publishing with BrightSign Network](#) for details.
9. Under **Logging**, check any of the following checkboxes to enable/disable logs and specify upload settings:
   a. **Enable playback logging**: Creates a log that records start and end times, zone names, media types, and file names.
   b. **Enable event logging**: Creates a log that records timestamps, state names, zone names, event types, and event data.
   c. **Enable state logging**: Creates a log that records current and last state names, timestamps, and media types.
   d. **Enable diagnostic logging**: Creates a log that records timestamps, firmware and script versions, and the current presentation.
   e. **Upload logs**
      o **On startup**: Uploads log files each time you start the unit.
      o **At specific time each day**: Uploads log files daily at the specified time. Use the dropdown lists to pick a time.
      o **Relative URL for log handler**: Type the location where you want logs to be uploaded.
8. Create and install the setup files:
   a. Click **Create Setup Files**.
   b. Browse to and select an SD card (recommended) or USB flash drive (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230 only) to store the setup files.
   c. Click **OK**.
   d. Turn off the BrightSign unit by unplugging the power adapter. Insert the card or flash drive into the unit.

e. Turn on the BrightSign unit by reconnecting the power adapter.

Important: *Do not remove the SD card or flash drive from the player.*

Adding a Player to your Local Network

With local networking, the setup files provide details about where presentations are stored and whether logging options are enabled.

1. In the BrightAuthor menu bar, click **Tools** > **Setup BrightSign Unit**.
2. Under **Name Specification**, do the following:
   a. Enter a **Name** and **Description** for this unit.
   b. Select whether you want to append the unit ID to the name or use only the name.
3. Under **Network Properties**, set the following:
   a. **Enable Wireless**: Check this box if you plan to connect to the local network using a wireless connection. In order to use a wireless connection, you must purchase a wireless model (HD210w, HD1010w) or purchase an XD Wireless Module for your BrightSign XD player. Enter the SSID and Security key if the network is secured.
   b. **Network Connection Priority**: Use the up and down arrows to prioritize either the **Wired** or **Wireless** connection. The BrightSign player will always attempt to download and upload using the first option. It will only use the second option if the first is unavailable.
   c. **Time zone**: Select the time zone where the unit is located.
   d. **Time server**: Select the clock for this unit.
4. Click the **Advanced Network Setup** button to customize advanced settings for your networked player. Specify the following in the **Unit Configuration** tab:
   a. **Use Proxy**: Check this box if you want to use a proxy server. Type the address and port number in the fields below.
5. Specify the following in the **Wired** and **Wireless** tab of the **Advanced Network Setup window**:

a. **Data Types Enabled**: Use these checkboxes to determine the types of data that will be transferred using the connection. You can enable/disable both downloads (**Content**, **Text Feeds**, **Media Feeds**) and uploads (**Log Updates**).

b. **Connection Settings**: Indicate whether the IP address is auto-generated or static. If you're using a static IP address, enter the parameters in the fields below.

4. Click **Specify Firmware Update** to indicate whether you want to update the firmware and to which version. The Firmware Update window is divided by BrightSign model. In the section that corresponds to your BrightSign unit, select a firmware version or **Do not update**, and then click **OK**.

5. Under **Unit Configuration**, click **Networked with Local File Networking**, and then specify the following:
   a. (Optional) **Enable diagnostic web server**: Check the checkbox to enable the diagnostic web server. You can include a username and password in the text fields below for added security.
   b. (Optional) **Enable local web server**: Check the checkbox to enable the local web server. You can include a username and password in the text fields below for added security.
6. Under **Logging**, check any of the following checkboxes to enable/disable logs and specify upload settings:
   a. **Enable playback logging**: Creates a log that records start and end times, zone names, media types, and file names.

b. **Enable event logging**: Creates a log that records timestamps, state names, zone names, event types, and event data.

c. **Enable state logging**: Creates a log that records current and last state names, timestamps, and media types.

d. **Enable diagnostic logging**: Creates a log that records timestamps, firmware and script versions, and the current presentation.

e. **Upload logs**

   o **On startup**: Uploads log files each time you start the unit.

   o **At specific time each day**: Uploads log files daily at the specified time. Use the dropdown lists to pick a time.

   o **Relative URL for log handler**: Type the location where you want logs to be uploaded.

9. Create and install the setup files:

a. Click **Create Setup Files**.

b. Browse to and select an SD card (recommended) or USB flash drive (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230 only) to store the setup files.

c. Click **OK**.

d. Turn off the BrightSign unit by unplugging the power adapter. Insert the card or flash drive into the unit.

e. Turn on the BrightSign unit by reconnecting the power adapter.

Important: *Do not remove the SD card or flash drive from the player.*

Adding a Player to your Simple File Network

With simple file networking, the setup file provides details about your network, the web folder associated with a unit, where presentations are stored, and when to check for updates.

1. In the BrightAuthor menu bar, click **Tools** > **Setup BrightSign Unit**.

2. Under **Name Specification**, do the following:

a. Enter a **Name** and **Description** for this unit.

b. Select whether you want to append the unit ID to the name or use only the name.

3. Under **Network Properties**, set the following:
    a. **Enable Wireless**: Check this box if you plan to connect to the local network using a wireless connection. In order to use a wireless connection, you must purchase a wireless model (HD210w, HD1010w) or purchase an [XD Wireless Module](#) for your BrightSign XD player. Enter the SSID and Security key if the network is secured.
    b. **Network Connection Priority**: Use the up and down arrows to prioritize either the **Wired** or **Wireless** connection. The BrightSign player will always attempt to download and upload using the first option. It will only use the second option if the first is unavailable.
    c. **Time zone**: Select the time zone where the unit is located.
    d. **Time server**: Select the clock for this unit.
4. Click the **Advanced Network Setup** button to customize advanced settings for your networked player. Specify the following in the **Unit Configuration** tab:
    a. **Use Proxy**: Check this box if you want to use a proxy server. Type the address and port number in the fields below.
    b. **Limit content downloads**: Check this box if you want to limit when the player downloads content. This is helpful if you want to limit network traffic at a certain time of day. Set a time frame during which content downloads can occur.
5. Specify the following in the **Wired** and **Wireless** tab of the **Advanced Network Setup window**:
    a. **Data Types Enabled**: Use these checkboxes to determine the types of data that will be transferred using the connection. You can enable/disable both downloads (**Content**, **Text Feeds**, **Media Feeds**) and uploads (**Log Updates**).
    b. **Connection Settings**: Indicate whether the IP address is auto-generated or static. If you're using a static IP address, enter the parameters in the fields below.
    c. **Rate Limit Network Download Traffic**: Set the parameters for downloading content. The options are divided into three categories: **Outside content download window** and **During content download window** (both of which correspond to the **Limit content downloads** setting in the **Unit Configuration** tab) , as well as **During initial downloads**.
        o Click **Unlimited download rate** to set no limit.

BrightSign Unit Setup

Name Specification

Name: Player 3

Description:

Customization:
- ○ Use name only
- ● Append unit ID

Network Properties

☐ Enable wireless

SSID:

Security key:

Network Connection Priority
- ⇧ ⇩ Wired
- ⇧ ⇩ Wireless

[Advanced Network Setup]

Time zone: PST: US Pacific Time ▾

Time server: http://time.brightsignnetwork.com

Firmware

[Specify Firmware Update]

Unit Configuration

☑ Enable diagnostic web server

Diagnostic Server Authentication (optional)

User name: admin

Password:

☑ Enable local web server

Local Web Server Authentication (optional)

User name:

Password:

- ○ Standalone
- ○ Networked with Local File Networking
- ○ Networked with the BrightSign Network
- ● Networked with Simple File Networking

URL for web folder: (e.g., http://www.brightsign.com/files/)

http://www.brightsign.com/files

Content Check Frequency: Every 5 minutes ▾

Logging

☑ Enable playback logging
☑ Enable event logging
☑ Enable state logging
☑ Enable diagnostic logging

Upload logs

☑ On startup
☐ At specific time each day

Upload time: 19 ▾ : 20 ▾

Relative URL for log handler: (e.g., loghandler.php)

loghandler.php

[Create Setup Files]   [Cancel]

- o Click **Default limit** to use the default limit on downloads.
- o Click **Specify limit** to enter a customized limit on downloads in the text field (in Kbits/second).

4. Click **Specify Firmware Update** to indicate whether you want to update the firmware and to which version. The Firmware Update window is divided by BrightSign model. In the section that corresponds to your BrightSign unit, select a firmware version or **Do not update**, and then click **OK**.

5. Under **Unit Configuration**, click **Networked with Simple File Networking**, and then specify the following:
   a. (Optional) **Enable diagnostic web server**: Check the checkbox to enable the diagnostic web server. You can include a username and password in the text fields below for added security.
   b. (Optional) **Enable local web server**: Check the checkbox to enable the local web server. You can include a username and password in the text fields below for added security.
   c. **URL for the web folder**: Set the location from which the player will download presentations. Do not use trailing slashes in your URL; some web servers do not support trailing slashes.
   Important: *The URL for the web folder must be identical to the web folder URL you enter when publishing presentations. See* Publishing with Simple File Networking *for details.*
   d. **Content Check Frequency**: Set how often you want the unit to check the server for updates.
6. Under **Logging**, check any of the following checkboxes to enable/disable logs and specify upload settings:

a. **Enable playback logging**: Creates a log that records start and end times, zone names, media types, and file names.

b. **Enable event logging**: Creates a log that records timestamps, state names, zone names, event types, and event data.

c. **Enable state logging**: Creates a log that records current and last state names, timestamps, and media types.

d. **Enable diagnostic logging**: Creates a log that records timestamps, firmware and script versions, and the current presentation.

e. **Upload logs**

   o **On startup**: Uploads log files each time you start the unit.

   o **At specific time each day**: Uploads log files daily at the specified time. Use the dropdown lists to pick a time.

   o **Relative URL for log handler**: Type the location where you want logs to be uploaded.

7. Create and install the setup files:

   a. Click **Create Setup Files**.

   b. Browse to and select an SD card (recommended) or USB flash drive (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230 only) to store the setup files.

   c. Click **OK**.

   d. Turn off the BrightSign unit by unplugging the power adapter. Insert the card or flash drive into the unit.

   e. Turn on the BrightSign unit by reconnecting the power adapter.

Important: *Do not remove the SD card or flash drive from the player.*

Setting up a Player for Standalone Use

Standalone players are not connected to a network and must be updated manually. To change presentations/schedules, you must remove the storage card (or USB flash drive), update it on your computer, and reinsert it into the player.

Updating standalone units is the only case in which you should remove the storage card after setting up the unit. If your player has a USB flash drive slot, it is recommended that you use an SD card when setting up the unit, and keep it in the player as the internal storage. You can update the content on the SD card via a USB flash drive. See Publishing with Local Storage for details. With standalone units, the setup files provide details about where presentations are stored and whether logging options are enabled.

1. In the BrightAuthor menu bar, click **Tools** > **Setup BrightSign Unit**.
2. Under **Name Specification**, do the following:
   a. Enter a **Name** and **Description** for this unit.
   b. Select whether you want to append the unit ID to the name or use only the name.
3. Under **Network Properties**, set the following:
   a. **Enable Wireless**: Check this box if you plan to connect to the local network using a wireless connection. In order to use a wireless connection, you must purchase a wireless model (HD210w, HD1010w) or purchase an XD Wireless Module for your BrightSign XD player. Enter the SSID and Security key if the network is secured.
   b. **Network Connection Priority**: Use the up and down arrows to prioritize either the **Wired** or **Wireless** connection. The BrightSign player will always attempt to download and upload using the first option. It will only use the second option if the first is unavailable.
   c. **Time zone**: Select the time zone where the unit is located.
   d. **Time server**: Select the clock for this unit.
4. Click the **Advanced Network Setup** button to customize advanced settings for your networked player. Specify the following in the **Unit Configuration** tab:
   a. **Use Proxy**: Check this box if you want to use a proxy server. Type the address and port number in the fields below.

BrightSign Unit Setup

Name Specification

Name:

Description:

Customization:
- ◉ Use name only
- ○ Append unit ID

Network Properties
- ☐ Enable wireless

SSID:

Security key:

Network Connection Priority
- ⬆ ⬇ Wired
- ⬆ ⬇ Wireless

[Advanced Network Setup]

Time zone: PST: US Pacific Time ▼

Time server: http://time.brightsignnetwork.com

Firmware

[Specify Firmware Update]

Unit Configuration

☑ Enable diagnostic web server

Diagnostic Server Authentication (optional)

User name: admin

Password: •••••••••••

☑ Enable local web server

Local Web Server Authentication (optional)

User name: odoacer

Password: •••••••••••

◉ Standalone

USB Content Update Password (optional)

○ Networked with Local File Networking
○ Networked with the BrightSign Network
○ Networked with Simple File Networking

Logging
- ☑ Enable playback logging
- ☑ Enable event logging
- ☑ Enable state logging
- ☑ Enable diagnostic logging

Upload logs
- ☑ On startup
- ☐ At specific time each day

Upload time: 19 ▼ : 20 ▼

Relative URL for log handler: (e.g., loghandler.php)

loghandler.php

[Create Setup Files] [Cancel]

5. Specify the following in the **Wired** and **Wireless** tab of the **Advanced Network Setup window**:
   c. **Data Types Enabled**: Use these checkboxes to determine the types of data that will be downloaded using the connection.
   d. **Connection Settings**: Indicate whether the IP address is auto-generated or static. If you're using a static IP address, enter the parameters in the fields below.
6. Click **Specify Firmware Update** to indicate whether you want to update the firmware and to which version.

The Firmware Update window is divided by BrightSign model. In the section that corresponds to your BrightSign unit, select a firmware version or **Do not update**, and then click **OK**.

7. Under **Unit Configuration**, click **Standalone**, and then specify the following:
   - (Optional) **Enable diagnostic web server**: Check the checkbox to enable the diagnostic web server. You can include a username and password in the text fields below for added security.
   - (Optional) **Enable local web server**: Check the checkbox to enable the local web server. You can include a username and password in the text fields below for added security.
   - (Optional) **USB Content Update Password**: Enter a password in the field to enable password protection for USB content updates. This feature helps to ensure that a player will not be assigned incorrect schedules or data when updated via USB.
8. Under **Logging**, check any of the following checkboxes to enable/disable logs and specify upload settings:

a. **Enable playback logging**: Creates a log that records start and end times, zone names, media types, and file names.

b. **Enable event logging**: Creates a log that records timestamps, state names, zone names, event types, and event data.

c. **Enable state logging**: Creates a log that records current and last state names, timestamps, and media types.

d. **Enable diagnostic logging**: Creates a log that records timestamps, firmware and script versions, and the current presentation.

e. **Upload logs**

   o **On startup**: Uploads log files each time you start the unit.

   o **At specific time each day**: Uploads log files daily at the specified time. Use the dropdown lists to pick a time.

   o **Relative URL for log handler**: Type the location where you want logs to be uploaded.

9. Create and install the setup files:

a. Click **Create Setup Files**.

b. Browse to and select an SD card (recommended) or USB flash drive (HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230 only) to store the setup files.

c. Click **OK**.

d. Turn off the BrightSign unit by unplugging the power adapter. Insert the card or flash drive into the unit.

e. Turn on the BrightSign unit by reconnecting the power adapter.

Important: *Do not remove the SD card or flash drive from the player.*

CHAPTER 3 – CREATING PRESENTATIONS

Creating a Full-Screen Presentation

In a full-screen presentation, your images and/or videos occupy the entire screen.

1. Create a new presentation project by navigating to **File > New Presentation**.

   TIP: *If you don't see* **New Presentation** *under* **File***, make sure you have the* **Edit***,* **Publish***, or* **Manage** *tab selected in the upper-left portion of the screen.*

2. Specify the following in the **New Project** window.

   a. **Save as**: Enter a name for the presentation.

   b. **Where**: Select the folder where you want to store the presentation. Click **Browse** to navigate to the desired folder.

   c. **BrightSign model**: Select the model number of the BrightSign player(s) to which you will publish this presentation.

   d. **Connector type**: Select either HDMI, VGA, or Component.

   e. **Screen resolution**: Choose the resolution that best matches the native resolution of your monitor. You can view all available screen resolutions on the Support Section of the BrightSign website.

   Note: *If you select HDMI or Component in the* **Screen resolution** *menu, you will see several options that are only compatible with component or composite (rather than VGA or HDMI) signals. See this* **FAQ** *for more information on generating component/composite signals.*

   f. **Monitor Orientation**: Choose whether you would like the content to appear in Landscape or Portrait mode. BrightSign
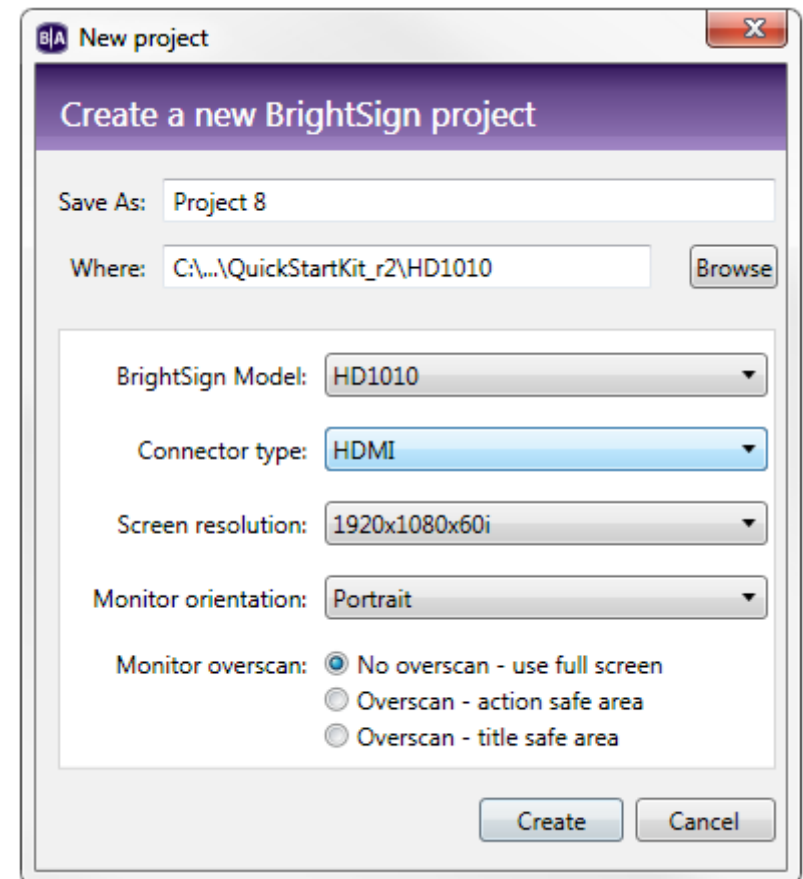
players do not automatically rotate landscape content to display in Portrait mode (and vice versa). You will first need to rotate video or images in the source application (e.g. Paint Shop Pro Photoshop, Adobe After Effects) before publishing them to the player.

    g. **Monitor overscan**: Select a setting to determine how the image fills the display screen.

- **No overscan – use full screen**: Displays images/video to the edge of the video signal.
- **Overscan – action safe**: Restricts the image display to an area that is compatible with most displays.
- **Overscan – title safe**: Restricts the image display to an area that is much smaller than the image generated by the video signal.

        Tip: *For best results, experiment to find the overscan setting that works best with your display.*

        Click **Create**.

2. Click the **Full screen** template, and then click **Choose**.
3. Add media to your Library:
    a. In the left portion of the screen, under the File tab, click **Browse**.
    b. Navigate to the folder where your content is stored.
    c. Click **OK**.

Note: *If you have a lot of large files in your content folder, it may take a while for the thumbnail images to appear.*

4. Add media files to your presentation by dragging files from the Media Library folders to the playlist area. Make sure you have the **Files** tab selected under **Media Library**.
    a. To select a series of adjacent media files, press **Shift+Click** as you select the files.
    b. To select a group of non-adjacent files, press **Ctrl+Click** as you select the files.
    c. To set the order in which the files play, drag them to the Playlist area in the proper order. You can change the order of files already in the playlist by clicking a file and dragging it to a new position.
    d. To refresh the **Media Library** folders, click the ⟳ refresh icon (next to the **Browse** button).
    e. To remove an item from a playlist, click it in the playlist area and press **Delete** on your keyboard.
    f. To change media files in the playlist without individually deleting
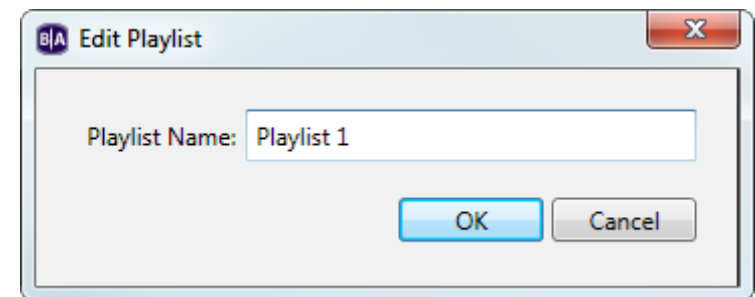
and dragging, click **File** > **Replace media files**. In the Replace Media Files window, click **Browse** to select the folder that contains the files you want to add. This can be the same folder used in your Media Library or a new folder. A list of all files currently added to the playlist is displayed below **Presentation Media Files**. For each file you want to replace, select a new file using the dropdown lists beneath **Replacement Media File**.

    g. To create interactive events, see [Making a presentation interactive](#).

2. (Optional) Rename the playlist:

    a. Click **Edit** in the upper-right corner of the playlist area.

    b. Enter a new name for the playlist.

    c. Click **OK**.

6. (Optional) Set playback options:

    a. To edit settings for a single item, right-click the thumbnail in the playlist area, select **Edit**, and then choose the settings you want to apply to the selected item.

    b. To edit settings for multiple items, press **Ctrl+Click** to select the items in the playlist area. On the menu bar, click **Edit** > **Selected Items**, and then choose the settings you want to apply to the selected items.

7. On the menu bar, click **File** > **Save…** to store your presentation.

Note: *Make sure you have the **Edit** tab selected in the upper-left portion of the screen. To save the presentation with a different name or in a different folder, select **File** > **Save… As**. To export the presentation and associated content, select **File** > **Export…**.*
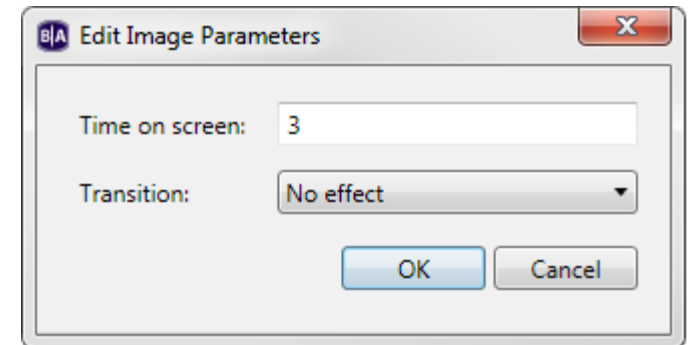
Creating a Multi-Zone Presentation

In a multi-zone presentation, BrightAuthor divides the screen into rectangles called zones. You can play different content in each zone, and each zone supports a specific type of content. BrightAuthor provides a handful of multi-zone templates. You can choose one of the existing templates, or create your own (see [Customizing presentations](#) for more details).

When using a multi-zone template, you need to know which type of content you can include in each zone. The color-coded key at the bottom of the template screen shows the available content types, and the color-coded templates indicate which type of content you can include in each zone of the templates. The following list describes the available content types:

- **Images** : Plays images. You can include multiple Images zones.
- **Ticker** : Plays an RSS feed or pre-defined text strings. You can include multiple Ticker zones.
- **Clock** : Displays the time or date. You can include multiple Clock zones.
- **Video or Images** : Plays videos and images.
- **Video Only** : Plays videos.
- **Audio Only** : Plays audio. You can include multiple Audio Only zones.
- **Background Image** : Places an image in the background of your presentation. All other zones appear on top of the background image. When using a background image, you cannot include a Video Only zone or a Video or Images zone. You can include only one Background Image zone.

Note: *BrightSign XD230, XD1030, or XD1230 players can decode two videos at once. Therefore, if you are creating a presentation for an XD player, you can include two "Video or Images" zones, a "Video or Images zone" and a "Video Only zone", or two "Video Only" zones. If you are using an HD player, you can include only one video zone per presentation. Therefore, you must choose between a Video or Images zone, a Video Only zone, or a Background Image zone. The HD series cannot display more than one of these zone types in the same presentation.*

1. Create a new presentation project:
   a. Select **File** > **New Presentation**

   Tip: *If you don't see* **New Presentation** *under* **File***, make sure you have the* **Edit, Publish,** *or* **Manage** *tab selected in the upper-left portion of the screen.*

   c. In the **New Project** window, enter a name for the presentation in the **Save as** field.
   d. In the **Where** field, enter the folder where you want to store the presentation. Click **Browse** to navigate to the desired folder.
   e. Select your **BrightSign model**, **Connector type**, **Screen resolution**, and **Monitor orientation**.
   f. Select a **Monitor overscan** setting to control how the image fills the display screen.
      - **No overscan**: Displays images/video to the edge of the video signal.

- **Overscan - action safe**: Restricts the image display to an area that is compatible with most displays.
- **Overscan – title safe**: Restricts the image display to an area that is much smaller than the image generated by the video signal.

Tip: *Experiment to find the overscan setting that works best with your display.*

    g. Click **Create**.

2. Click the multi-zone template you want to use, and then click **Choose**.
3. Add media to your Library:
   a. In the left portion of the screen, under the **File** tab, click **Browse**.
   b. Navigate to the folder where your content is stored.
   c. Click **OK**.

Note: *If you have a lot of large files in your content folder, it may take a while for the thumbnail images to appear.*

4. Add content to the zone playlist:
   a. Click the zone you want to populate.

   Note: *Each zone has its own playlist.*

   b. Under the **File** tab, drag items from the Media Library folders to the playlist area. Click **Browse** to change the Media Library folder.
   - To select a series of adjacent media files, press **Shift+Click** as you select the files.
   - To select a group of non-adjacent files, press **Ctrl+Click** as you select the files.
   - To set the order in which the files play, drag them to the Playlist area in the proper order. You can change the order of files already in the playlist by clicking a file and dragging it to a new position.
   - To refresh the **Media Library** folders, click the ⟳ refresh icon (next to the Browse button).
   - To remove an item from a playlist, click it in the playlist area and press **Delete** on your keyboard.
   - To change media files in the playlist without individually deleting and dragging, click **File** > **Replace media files**. In the Replace Media Files window, click **Browse** to select the folder that contains the files you want to add. This can be the same folder used in your Media Library or a new folder. A list of all files currently added to the playlist is displayed below **Presentation Media Files**. For each file you want to replace, select a new file using the dropdown lists beneath **Replacement Media File**.

- To create interactive events, see Making a presentation interactive.
5. Repeat step 4 for each zone in the presentation.
6. Click the **Layout** tab to add new zones or adjust the position of your zones. To add a new zone, click the **Add**
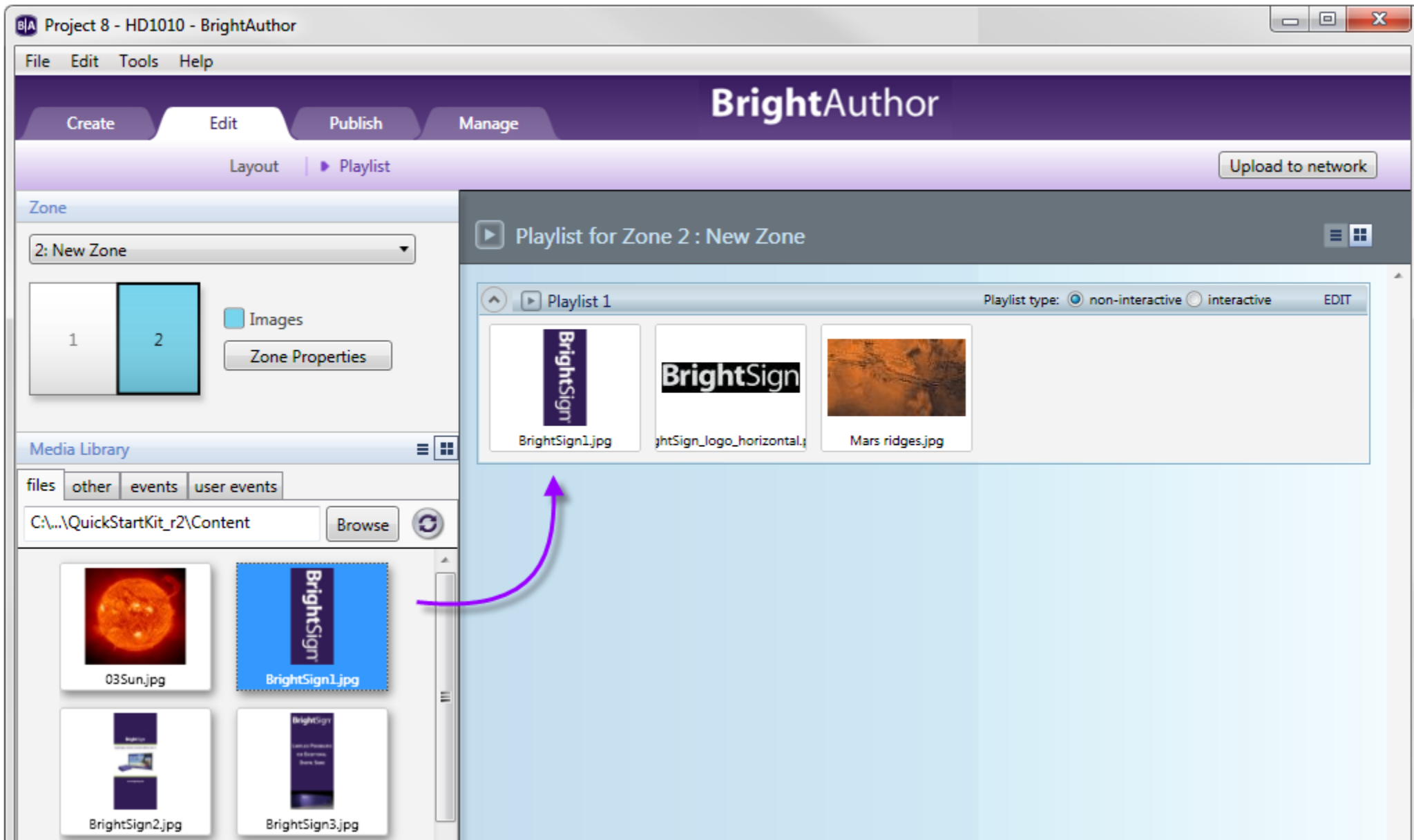
Zone button. In the New Zone window, type a name for the zone in the **Zone name** text field, and select a zone type. Click **OK**. To adjust the position and size of zones, drag and resize in the preview in the right portion of the screen. See Customizing template layouts for further details.

7. (Optional) Rename the playlist:
    a. Click **Edit** in the upper-right corner of the playlist area.
    b. Enter a new name for the playlist.
    c. Click **OK**.

8. (Optional) Set playback options:
    a. To edit settings for a single item, right-click the thumbnail in the playlist area, select **Edit**, and then choose the settings you want to apply to the selected item.
    b. To edit settings for multile items, press **Ctrl+Click** to select the items in the playlist area. On the menu bar, click **Edit** >**Selected Items**, and then choose the settings you want to apply to the selected items.

9. (Optional) Set zone properties. See Setting zone properties for details.

10. On the menu bar, click **File** > **Save…** to store your presentation.

Note: *Make sure you have the* **Edit** *tab selected in the upper-left portion of the screen. To save the presentation with a different name or in a different folder, select* **File** > **Save… As**. *To export the presentation and associated content, select* **File** > **Export…**.
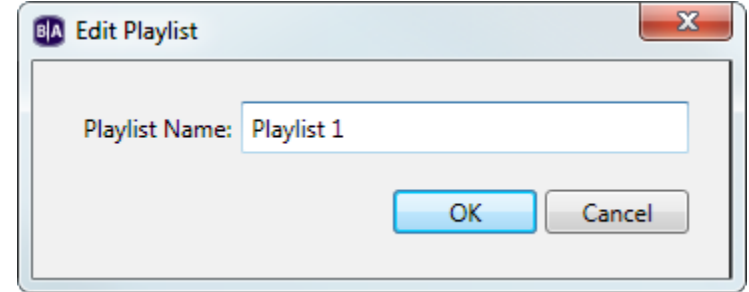
HTML5

You can use the BrightSign XD230, XD1030, or XD1230 player to display HTML5 web pages, including video, image, text, and JavaScript elements. For a full explanation of how to create and publish HTML5 content for BrightSign players, please see the HTML5 User Guide.

Note: *You can display HTML5 pages in Images zones and Video or Images zones. HTML5 video content that is embedded in an Images zone will still play.*
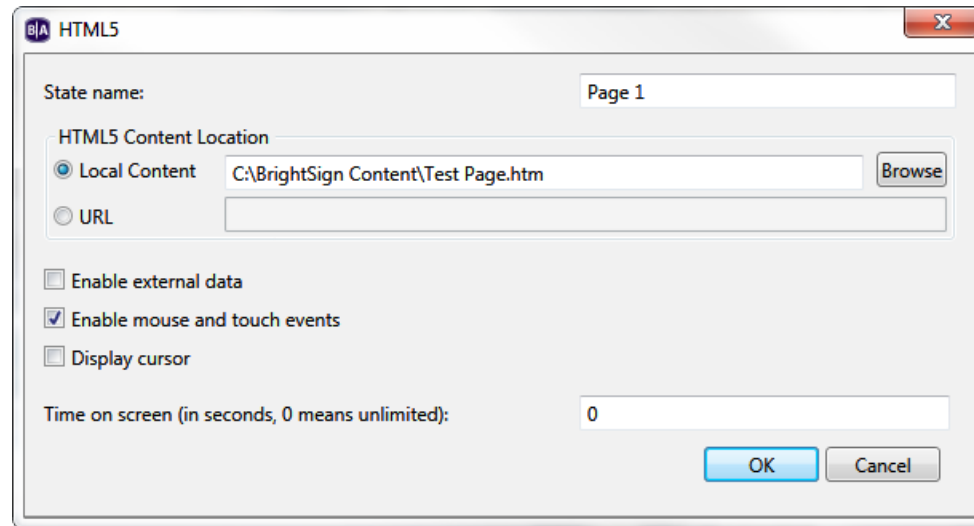
- **State name**: Specify a name for the HTML5 state.
- **Local Content**: Select this option if you plan on publishing HTML5 content using page and media files located on the local storage of your computer. Click the browse button to locate the .htm file that you wish to display.
- **URL**: Select this option if you wish to play an HTML5 page from a web address.

Note: *BrightSign XD players are not designed to be used as general-purpose web browsers. Many web pages have elements that will not display correctly on a BrightSign player. Make sure to thoroughly test a web page before using it as digital signage.*

- **Enable external data**: Check this box if your HTML5 page uses assets from multiple locations.
- **Enable mouse and touch events**: Check this box if you want to enable interaction with the HTML5 page (clicking on links, interacting with JavaScript elements, etc.). See the above warning about using an XD player as a web browser.
- **Display cursor**: Displays the cursor if you are using a mouse with your XD player.

RSS, Text, and Media RSS Feeds

Networked BrightSign players can include RSS feeds. These can include standard RSS (text) or Media RSS (feeds that contain video or images). Alternatively, you can create your own text feeds and add them to a Ticker zone like an RSS feed.

Note: *Text feeds are static, whereas RSS and Media RSS feeds are updated each time the BrightSign connects to the server. This is ideal for instant updates from sources such as Twitter.*

Text Feeds

1. Create a .txt file (using Notepad or a similar program) that contains the text you wish to display.
    a. Insert a line break between each text item in the .txt file.
    b. Save the text file and place it in your Media Library folder.
2. Select a Ticker zone in your presentation.
    a. Click the **Text** tab.
    b. Drag the text file into the playlist.
3. Repeat this step to add additional text files.

RSS Feeds

1. Select a Ticker zone in your presentation.
2. Click the **RSS** tab and drag the 🔊 **New RSS Feed** icon into the playlist.
    a. Select a data feed from the dropdown list.
    b. Click **OK**.

If you need to define a new data feed, click the **Add Data Feed** button. To learn more about creating new data feeds, see the [Setting Presentation Properties](#) section. If you want to add a Twitter feed, drag the **Twitter** icon into the playlist. When prompted, enter your Twitter User Name and click **OK**.

Note: *You can include multiple Ticker zones in your presentations. To adjust the update frequency for RSS feeds, click* **File** > **Presentation Properties**. *Under the* **Main** *tab, use the dropdown list beside* **RSS Update Frequency**.

Media RSS Feeds

1. Click the **Other** tab below **Media Library**.
2. Drag the ▣ **Media RSS Feed** icon to the playlist area.
   a. When prompted, enter the URL for the feed.
   b. Click **OK**.

Live Video and SignChannel

BrightSign models HD810, HD1010, and HD1010w support Live Videos using the Live Video Module. The XD1230 supports Live Video through the HDMI Input port. All networked players support SignChannel content. A subscription is required to use SignChannel.

Live Video

Select a *Video or Images* or *Video Only* zone. Under the **Other** tab, drag the ▣ **Live Video** icon to the playlist area. To edit the video volume and time on screen, double-click the thumbnail in the playlist area. When prompted, make the desired edits.

SignChannel

Under the **Other** tab, drag the ▣ **SignChannel** icon to the playlist area.

Note: *SignChannel content can only be in one zone of your presentation.*

Dynamic Playlists

A Dynamic Playlist enables you to easily update and share content in multiple presentations. For example, if you need to add daily announcements to your presentations and you don't want to update each presentation separately, you can add a Dynamic Playlist to all of your presentations and insert a new video announcement in the Dynamic Playlist each day. When you upload the revised Dynamic Playlist to the network, every presentation that includes the Dynamic Playlist receives the new content, so a single update reaches multiple presentations.

Note: *To use Dynamic Playlists, you must have a [BrightSign Network](#) account.*

Creating a Dynamic Playlist:

1. Click the **Create** tab in the upper-left portion of the screen.
2. On the menu bar, click **File** > **New Dynamic Playlist**. You can also open previously created Dynamic Playlists by clicking **File** > **Open Dynamic Playlist**. You can then make edits to the playlist.
3. Add files to your Media Library by clicking the **Browse** button and selecting a folder that contains the files you want to include in your Dynamic Playlist.
4. Drag the files to the playlist area.
5. Click the **Upload to Network** button in the upper-right portion of the screen.
6. You will be prompted to save the playlist. Click **Yes**. The **Save As** window will open. Type a name for your playlist and click **Save.** The Save Complete window will open. Click **OK.** The playlist will now upload onto the BrightSign Network. Click **OK**.

Now all presentations that contain the Dynamic Playlist will automatically receive the new content. You can change the content of the Dynamic playlist at any point by opening the playlist (**File** > **Open Dynamic Playlist**) and dragging new media files into the playlist area.

Adding Dynamic Playlists:

1. Open a presentation project.
   Note: *If you don't see **Open Presentation** under **File**, make sure you have the **Edit, Publish, or Manage** tab selected in the upper-left portion of the screen.*

2. Click the **Edit** tab.
3. Under the **Other** tab, drag the [icon] **Dynamic Playlist** icon to the playlist area.
4. The **Add Dynamic Playlist** window will open. From the drop-down list, select which Dynamic Playlist you want to link to the current presentation. Click **OK**.

Local Playlists

A Local Playlist allows you to customize which Dynamic Playlist is used in a presentation depending on the player. For example, if you are using BrightSign players at a dozen different locations, and the presentations are the same except for variations in the content of the Dynamic Playlists, you only need to create, edit, and update one presentation that uses a Local Playlist rather than a dozen that use different Dynamic Playlists.

1. Click the **Other** tab in the **Media Library**.
2. Drag and drop a Local Playlist where you would normally add a Dynamic Playlist.
3. Enter a unique **State name**.
4. Select a desired **Default playlist**. If no Dynamic Playlist is assigned to a player in a Local Playlist, then the player will automatically use the **Default playlist** instead.

Note: *If a player is not assigned a Dynamic Playlist and no default is set for the Local Playlist, then the player will skip to the next item in the presentation.*

5. Select the desired **Playlist** for each player connected to your BrightSign Network Account.
6. Click the **OK** button to save changes.
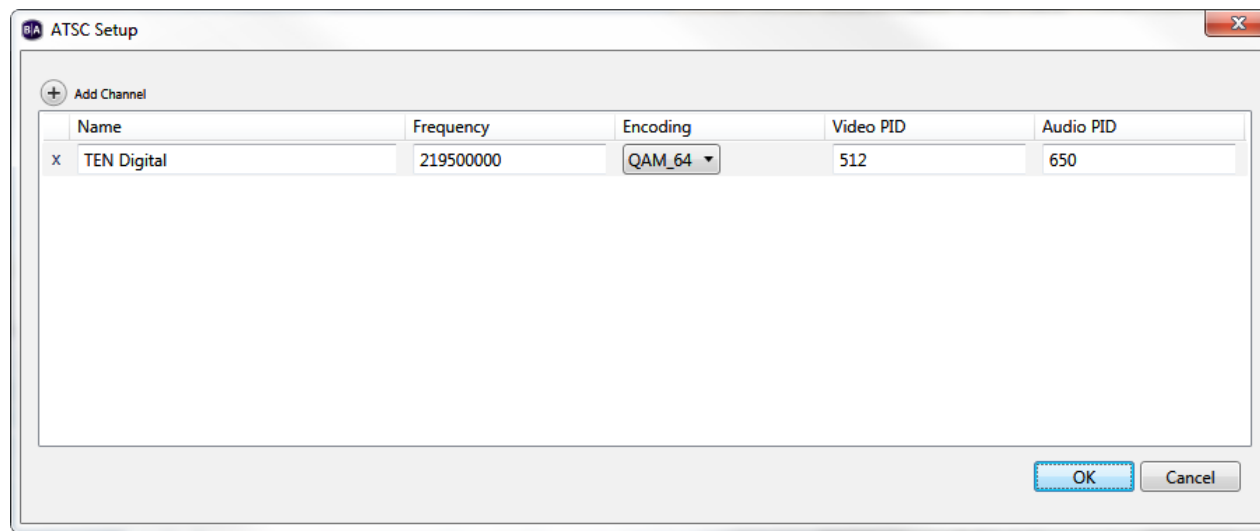
Video and Mjpeg Streams

All networked players can play Video and Mjpeg streams.

- **State Name**: Specify the unique name for the stream state.
- **URL for video stream**: Enter a valid URL for the stream.
- **Rotation (Mjpeg only)**: Specify the clockwise rotation of the streaming video.

- **Time on screen**: Specify the duration (in seconds) that the stream will be played. This option is only available in non-interactive presentations. To customize the duration of a stream in an interactive presentation, use a Timeout or Media End event.

RF In (ATSC)

Use this feature to display live video that is passed to the BrightSign player through the RF Input. This feature is available only on the XD1230. When creating a new RF In state, you will need to specify a **Channel** from the dropdown list. You

can create channels by clicking the **Add Channel** button in the **RF In** window or by selecting **Tools > ATSC Setup** on the menu bar.

- **Name**: Enter a unique name for the ATSC channel. You will see this name when selecting a channel in the **RF In** window.

Note: *If you do not have the information to fill out the following fields, see this support article for help. If you are connecting your player to a ZvBox, see the ZeeVee Configuration Tech Note on the BrightSign Support Website for full configuration information.*

- **Frequency**: Enter the frequency of the ATSC channel. If the frequency is measured in megahertz(MHz), you will need to convert the value to Hertz(Hz): For example, a frequency of 57.00MHz would be entered into this field as 57000000Hz.
- **Encoding**: Select the coding of the ATSC channel from the dropdown list.
- **Video PID**: Enter the Video PID of the ATSC channel.
- **Audio PID**: Enter the Audio PID of the ATSC channel.

CHAPTER 4 – MAKING A PRESENTATION INTERACTIVE

You can use BrightAuthor to create interactive presentations. Interactive presentations respond to interactive events, such as input from buttons or other GPIO devices, or from devices connected to a BrightSign communication port. The supported communication methods vary by BrightSign model:

- **RS232 serial devices**: HD410, HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230
- **USB devices (such as touch screens, mice, keyboards, barcode scanners, IR remote controls)**: HD810, HD1010, HD1010w, HD1020, XD1030, and XD1230 (see Appendix A for remote control codes)
- **Ethernet devices**: HD210, HD210w, HD220, HD1010, HD1010w, HD1020, XD230, XD1030, and XD1230

To make your presentation interactive, complete the following steps:

1. Open a presentation project. If you haven't already created a presentation, see Creating Presentations for details.
2. Add files to your Media Library by clicking the **Browse** button and selecting a folder that contains the files you want to include in your presentation.
3. Click a zone you want to make interactive.

Note: *Multi-zone presentations can include both non-interactive and interactive zones.*

4. Make the zone interactive. In the upper-right portion of the screen beside **Playlist type**, click **Interactive**.
5. Drag the desired content into the playlist area.
6. Choose a Home Screen. The Home Screen is the first media file in the playlist. It is where the interactive presentation begins (within a particular zone). Home Screens usually include one of the following:

     - An attract video that loops until the user provides input
     - A list of options from which the user can choose the next action (e.g. an Interactive Menu)

   By default, the first item you drag into an interactive playlist will become the Home Screen. It is identified by the **Home** icon. You can change the Home Screen at any time by double-clicking the desired file in the playlist and checking the **Set as initial state** box.

7. Define Interactive events. Interactive events link files in the playlist and determine what must occur before a file transitions to another file. In the user interface, files are referred to as "states," where the current file is the "current

state," and the file transitioned to is the "next state." In this guide, creating and linking interactive events between states will be referred to as "defining events":

a. In the **Event Toolbar**, click the interactive event icon that corresponds to the type of event you want to define. For example, to define what happens when a user presses button 1 on a button board, click ⊙ .
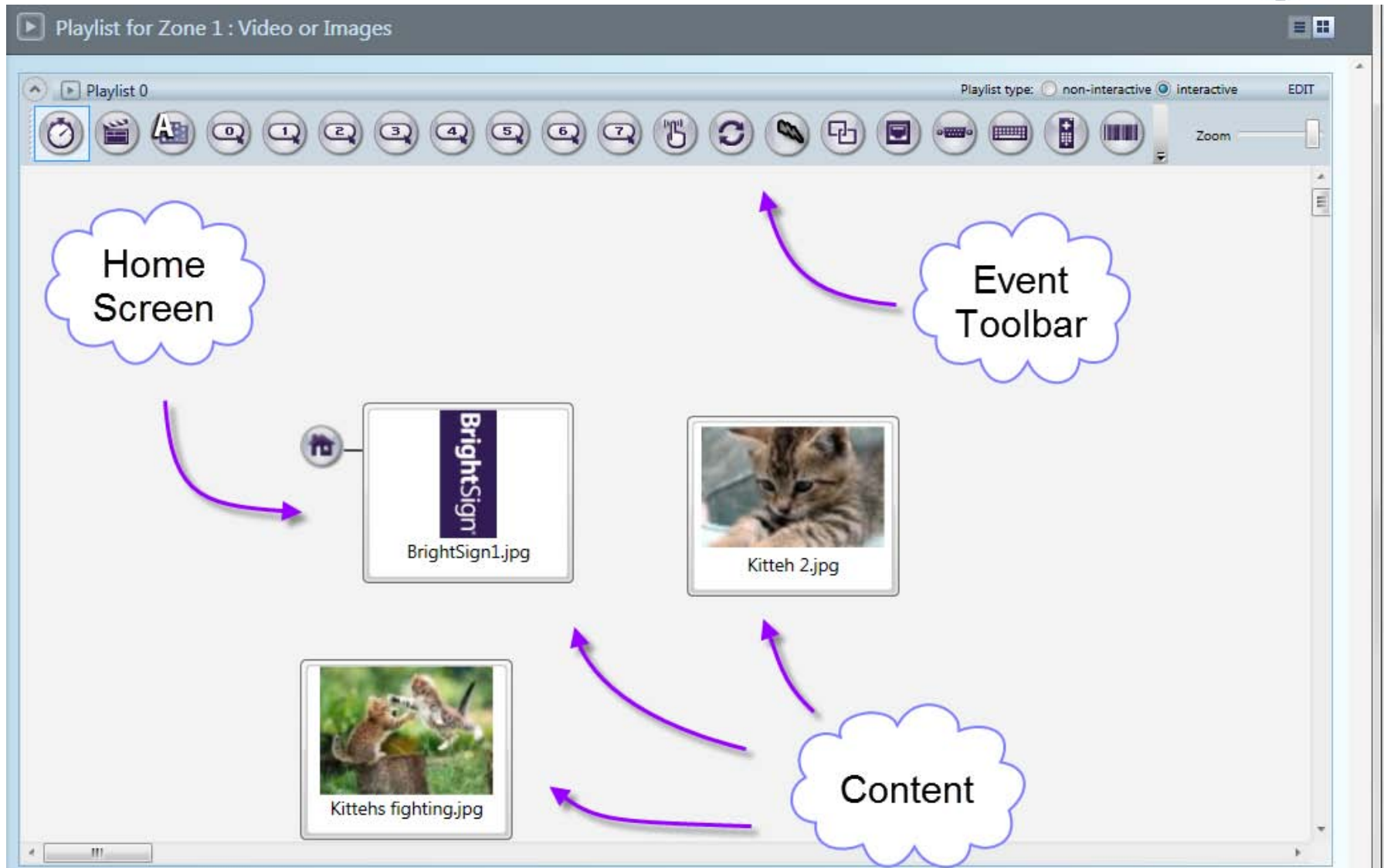
b. Click (and hold) the file name below the thumbnail image of the current state. This media file is what the user sees before performing the interactive event you are about to define.

Note: *The first interactive event must begin with the Home Screen.*
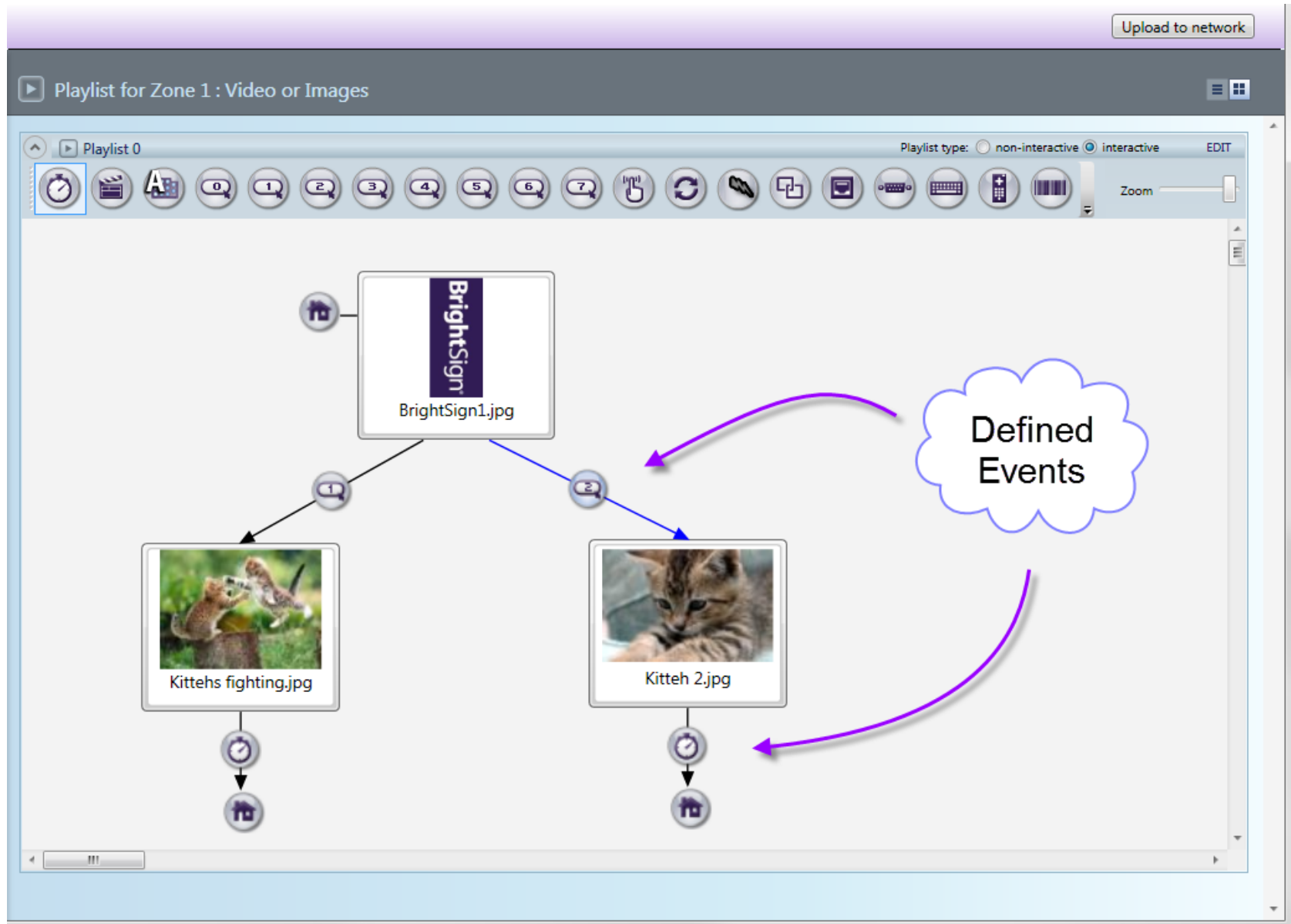
c. Drag the hand pointer to the thumbnail image of the media file you want to play next (the next state).

d. Repeat steps a – c to define the remaining interactive events.

Subsequent interactive events can start with any item and correspond to any other item in the playlist. For example, you can set the first interaction to display an image when the user presses button 1 from the Home screen. By defining a new event with the same event icon, you can set a second interaction to display another media file when the user presses button 1 again.

Note: *Make sure your defined events work in a loop. In the above screenshot, a user can transition from the Home Screen to the other images by pressing button 1 or button 2. After a set period of time (indicated by the timeout events), the presentation will return to the Home Screen.*

You can utilize multiple interactive events to transition from state to state. You can also apply events to multiple items. Right-click and drag the cursor within the playlist area to create a selection box. Define the interactive event from one media file, and it will then be created for all selected files. To select non-consecutive files, press and hold **Ctrl** while clicking items.
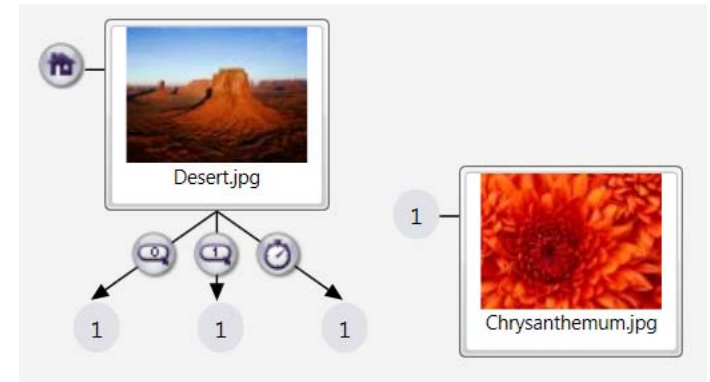
Customizing the Interactive Playlist

In the upper-right portion of the screen, you can use the **Zoom** control to adjust your view of the playlist area. When you switch between multiple interactive zones, BrightAuthor will remember the zoom setting last used for each zone.

If you don't see the event you want in the playlist toolbar, click the arrow to the left of the **Zoom** control. Here, you can add or remove event icon buttons from your toolbar. You can also access Event icons by clicking the **Events** tab under Media Library.

Editing Interactive Events

When creating an event with an Event icon from the **Events** tab, drag the Event icon onto the thumbnail of the media file you want to be the current state. An Event window will automatically open. Here, you can specify which media file you want to be the next state.

You can further adjust how your media files transition from state to state by double-clicking the Event icons (or right-clicking and then clicking **Edit**). For example, if you create an event with the Timeout Event icon, the media file displayed in your presentation will transition to the next state after a certain period of time. You can adjust this time period by double-clicking the Timeout Event icon between the two media files and changing the duration in the **Timeout Event** window.

The **Event** window that opens when double-clicking a created Event icon is the same window that automatically opens when you drag an event icon from the **Events** tab. The window always presents options specific to the type of interactive event chosen. However, every **Event** window displays the following options:

- **Transition to new state**: Use the dropdown list to specify which file in the playlist will be the next state.
- **Return to prior state**: If you select this option, the presentation will revert to the previous media file when the interactive event is performed.
- **Remain on current state**: If you select this option, the state will not change when the interactive event is performed. This option is useful for creating changes within one media file. You can create these changes by adding commands. See Adding Commands for details.
- **Advanced**: Click the **Advanced** tab to reveal the display options and commands section. Here you can set how you view the interactive events between states in the playlist area. **Show line** draws a line between the media files. **Show label** creates a label either to the **Right** or **Bottom** of the media file, indicating transitions from states. See Adding Commands for details on commands.

Editing Media Properties

You can edit individual files in the playlist by right-clicking and then clicking **Edit**. The **Media Properties** window will open.
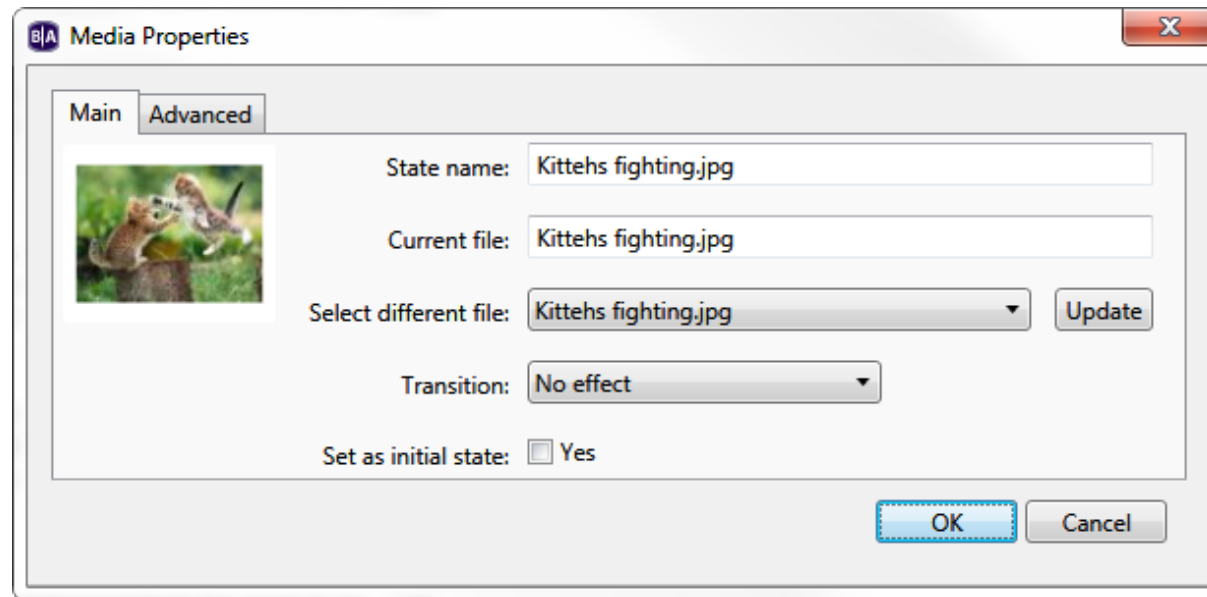
Here, you can view/change the **State name** and **Current file**. Use the dropdown list beside **Select different file** to swap the file with another in the playlist area. This is convenient for keeping the interactive events you have defined with the original file. You can also replace media files under **File** > **Replace Media Files**. See Creating Presentations for details.

Use the dropdown list beside **Transition** to create a special transition effect when the file appears on the display. Check the **Set as initial state** checkbox to change the file to make the file the Home Screen. Use the dropdown list beside **Transition** (image files only) to create a special effect for the image. Click the **Advanced** tab to store the image in a cache, set display mode for video files (2D, 3D side-by-side, 3D top-over-bottom), or add commands. See Adding Commands for details.

Note: *You can delete a defined event (or file) at any time by clicking the icon/thumbnail and pressing **Delete** on your keyboard.*

Media Lists and Play Files

Media Lists and Play Files are convenient tools for defining interactive events with many files. They allow you to compile your files into one group that appears as a single thumbnail in your playlist area. Only files of the same type can be gathered in a Media List or Play File. Therefore, both are divided into three categories for each media type:

- **Media Lists**: Image List, Audio List, and Video List.
- **Play Files**: Image Play File, Audio Play File, and Video Play File.

Under the **Other** tab, there is an icon for each list and file type. To create a Media List or Play File, drag the appropriate icon into the playlist area of a corresponding zone.

Media List

By default, each time an item transitions to a Media List, the next file in the list will play and exit the list after a timeout (images) or when the file finishes playing (video and audio). Alternatively, you can set the list to shuffle files or cycle through every file in the list before exiting and transitioning to the next state.

After you set your zone to **Interactive** and drag a **Media List** icon into the playlist area, the **List** window will automatically open. Here you can set the following parameters for your List:
- **Media list name**: Create a unique name for the list.
- **Set as initial state**: Check this box to make the list your Home Screen.
- **Advance to next item on media end event**: Check this box to set the list to cycle to the next file in the list after a timeout or media end event. If you leave this box unchecked, the list will play one file each time it is transitioned to and select the next file in the list upon subsequent transitions.
  Note: *If you are creating an Image List, this parameter will say* **Advance to next item on Image Timeout** *instead.*

- **Image Timeout (seconds)**: This option is only available if you are creating an Image List. You can specify the length of time each image remains on screen. You can also use decimal values to specify the image timeout in milliseconds (for example, 1.500 = 1500msec).
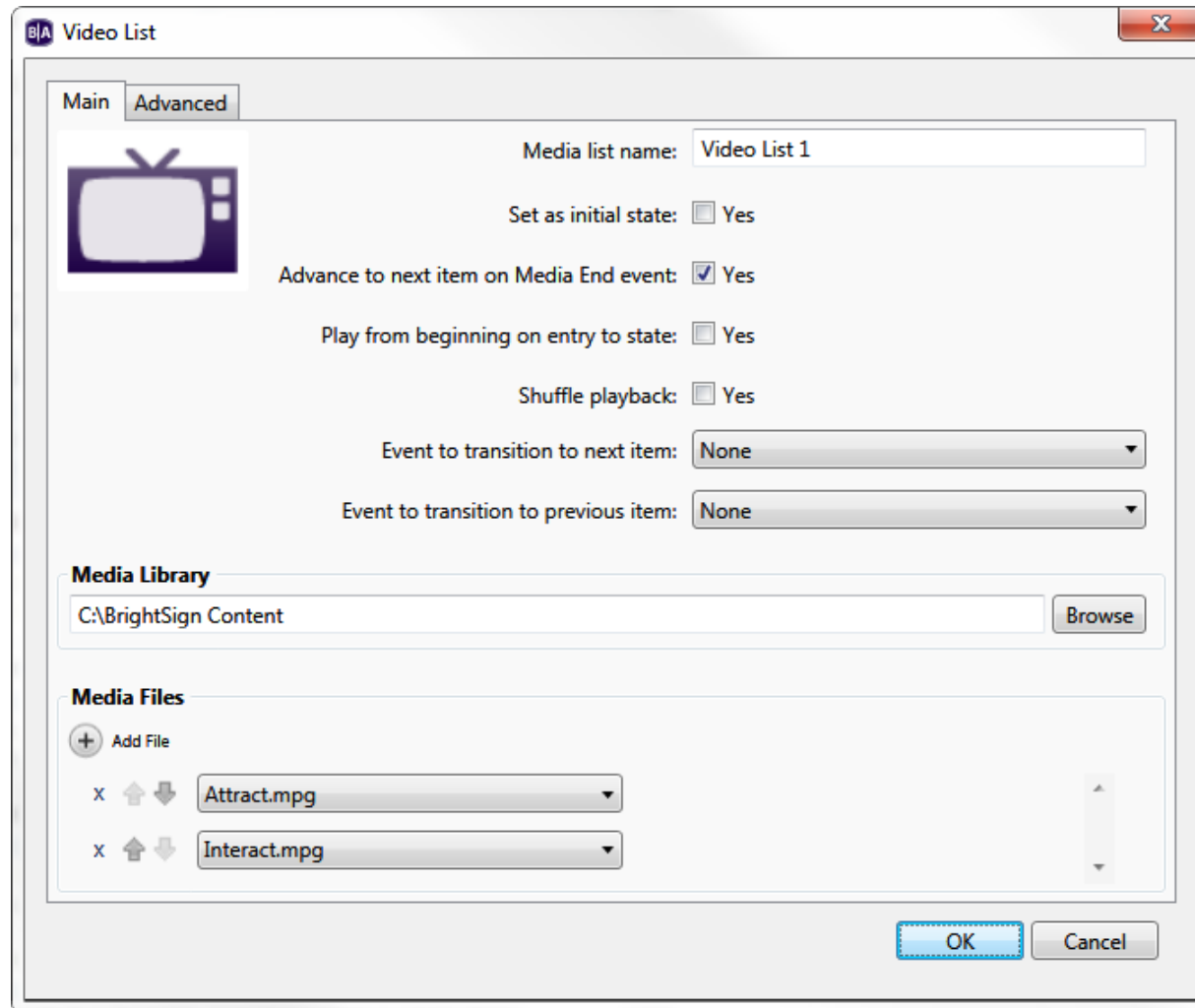
- **Play from beginning on entry to state**: Check this box to set the list to play from the beginning upon entry into the list. This box is only enabled if you have checked the above **Advance to next item on media end event**. If you

leave this box unchecked, subsequent transitions to the list will play the next file in the cycle after a user exits the list (for example, by using a command).

- **Shuffle playback**: Check this box to randomize the order in which files are played from the list.
- **Event to transition to next item**: Select an interactive event that allows the user to transition to the next file in the list. After selecting the event type, you must specify a trigger.
- **Event to transition to previous item**: Select an interactive event that allows the user to transition to the previous file in the list. After selecting the event type, you must specify a trigger.

Note: *If you leave event transitions on the default, timeouts and media end events will automatically cause transitions.*

- **Media Library**: Click **Browse** to select the folder that contains all the files you want to include in the list.
- **Media Files**: Add individual files to the list by clicking the **Add File** button and using the dropdown list. Only files contained in the folder you selected above will be available in the dropdown list.
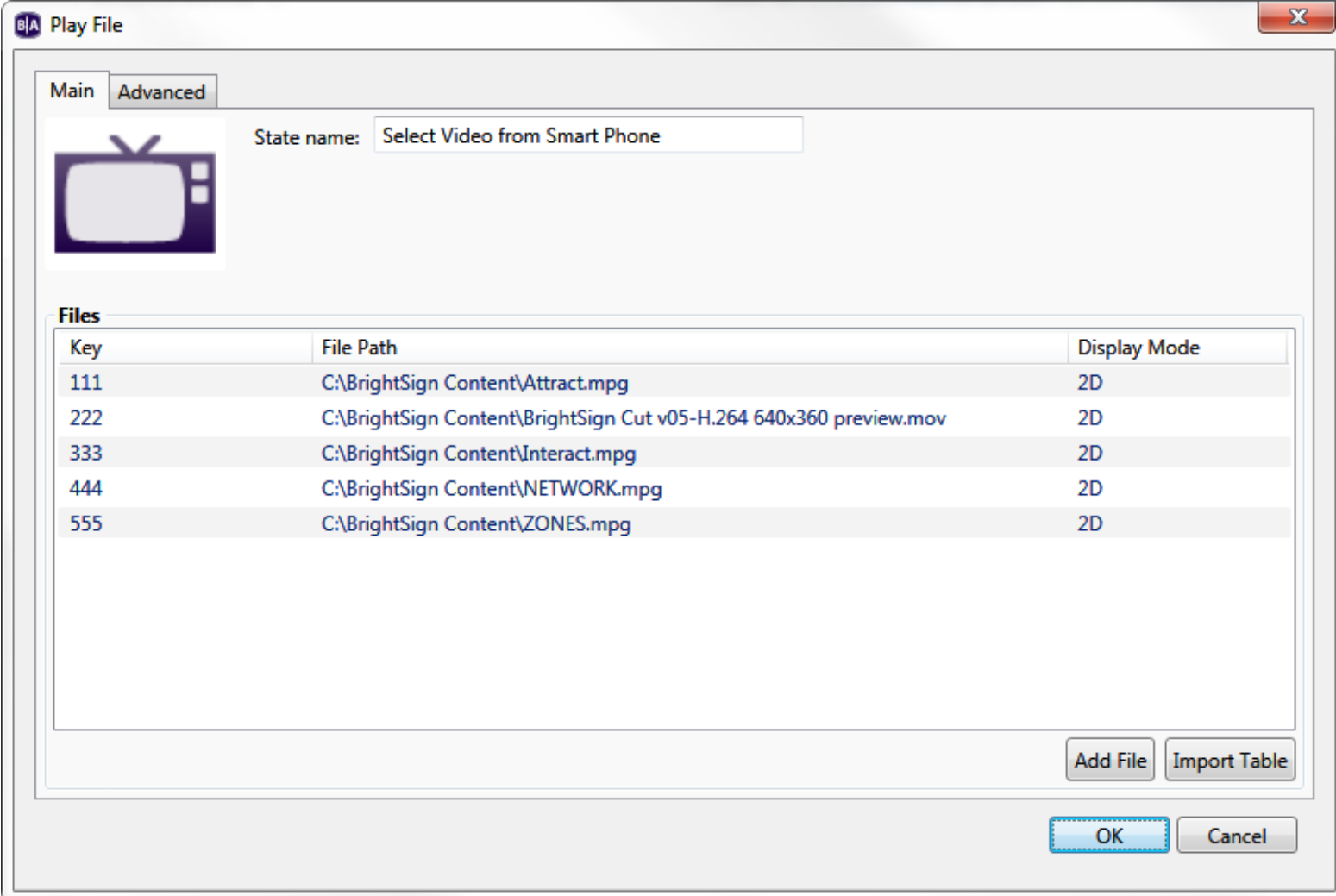- **Commands**: Add commands to the list. See Adding Commands for details.

You can edit properties of your Media Lists under **File** > **Presentation Properties** > **Media List**. See Setting presentation properties for details.

Play File

Play Files also combine files into a list you can view in one window (or as one thumbnail in the playlist area). However, Play Files function quite differently from Media Lists. They allow transitions to specific files within the group. In addition, any type of interactive event can cause a transition to a Media List. Play Files, on the other hand, can only be transitioned to via input from BP900/BP200, UDP, Serial, Keyboard, or USB. However, any type of event can transition out of Play File and to a new state.

Make sure you use zones that match the Play File type you want to use. After setting your zone to **Interactive** and dragging a Play File icon to the playlist area, the Play File window will automatically open. Here you can set the following parameters for your List:

- **State name**: Create a unique name for the Play File. This name will show up in the thumbnail in the playlist area.
- **Transition** (Image Play Files only): Use the dropdown list to create a special effect when a user transitions to an item in the Play File list.
- **Files**: This list displays files added to your Play File. Each file has a **Key** and **File Path**.
  - **Key**: The key is the specific interactive event that will cause a transition to a particular file. Because you define the interactive events with the keys in the Play File, you do not need to specify the events again when

creating a transition to the Play File. For example, if you define a USB Input event that links an item to the Play File, the option to **Specify USB Input** will be disabled and replaced with **<any>**. When a user performs an event via USB that matches a key, the corresponding file will play.

- o **File Path**: This is the location of the file on your computer.
- o **Display Mode**: Only Video Play Files have a display mode. By default, files are set to 2D, but if you are using a 3D video, you can select **3D side-by-side** or **3D top-over-bottom** when adding your files.

- **Add File**: Click this button to add items to the Play File. Here, you can specify the Key, File Path (use the **Browse** button to navigate to the desired file), and Display Mode if using a video file (use the dropdown list to select a display mode). Click **OK** when finished.
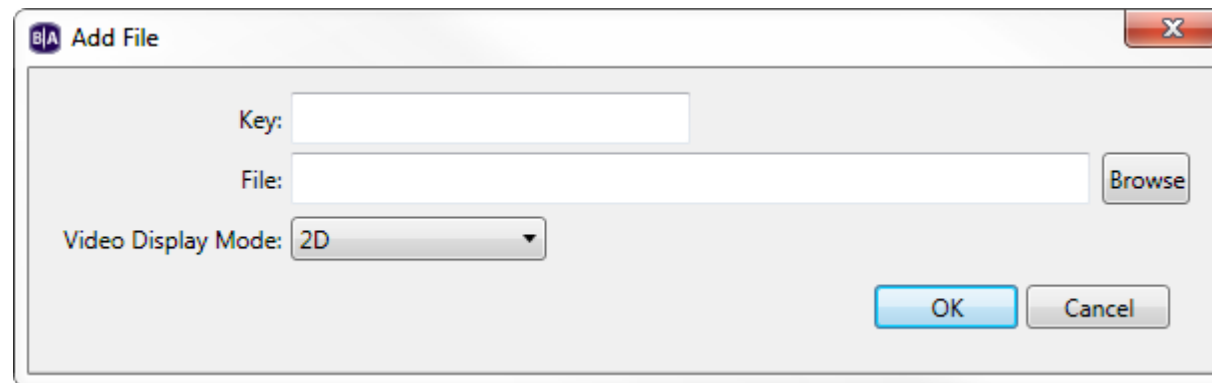
- **Import Table**: Click this button to import a previously created list of files. Navigate to your saved table and click **Open** to add the files to your Play File list. This table must have the Key, File Path, File Name, and Video Display Mode (if applicable) properly outlined. For a detailed explanation on importing a table for a Play File state, read the article on our website.
- **Commands**: Add commands to your Play File here. See Adding Commands for details.

Click **OK** when you are finished.

Live Text

This feature allows you to customize content for more engaging presentations. Live Text is an image laced with various text and/or image fields. Live Text allows you to layer both static and updateable RSS and Media RSS content on top of images or videos and customize the position/size of items in relation to the background.

Live Text –To use Live Text, drag the Live Text icon from the **Other** tab to the playlist area and set the following parameters:

- **State name**: Type a unique name for the Live Text state.
- **Set as initial state**: Check this box to make the Live Text state your Home Screen.
- **Background Image**: Click **Browse** to locate and select a background image for your Live Text.
- **Update Live Text Data**: Click this button to immediately update all RSS feeds.
- **Size**: Adjust the size of your text fields. **W** corresponds to the width of the text field, and **H** corresponds to the height of the text field.
- **Position**: Adjust the position of your text fields. **X** corresponds to the position of the text on a horizontal axis. **Y** corresponds to the position on a vertical axis.

Note: *Input numbers in the Size and Position fields for more precise results. Alternatively, you can click and drag the text fields in the preview to adjust size and position.*

- **Offset next**: Check this box to automatically set a position for subsequent text items in relation to the most recent text item. Input the distance for the next text item in the **X** and **Y** fields.
- **Type**: Use the dropdown list to select Fixed Text, System Variable, Live Text Data, Media Counter, or User Variable, RSS Feed, Media RSS Feed, or Image.
    a. **Fixed Text**: Select this option if you want to enter your own text. A text field will appear below **Text Type** where you can type your customized text. As you type, you can view the text in the preview image.
    b. **System Variable**: Select this option to display the device serial number, firmware version, or script version. Use the dropdown list to determine which value you would like to display.

c. **Live Text Data**: Select this option if you want to use an updateable RSS feed in the text field. Select the desired RSS feed from the dropdown list in the **Live Data Feed Name** field
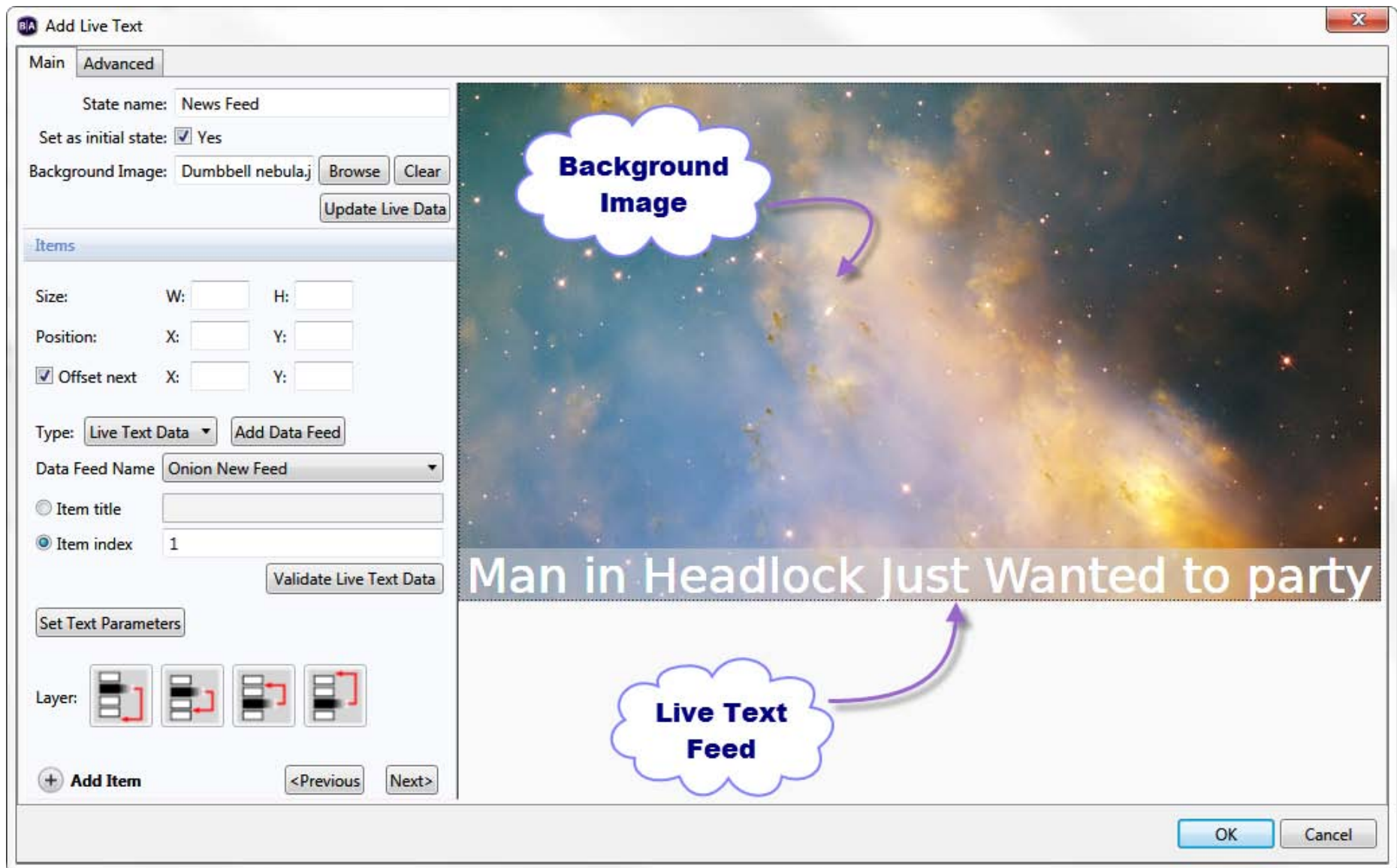
Note: *Feeds that appear in this dropdown list must first be created in the **Data Feeds** tab, which can be accessed through **File** > **Presentation Properties**. For more details on creating and customizing RSS feeds, see Setting Presentation Properties.*

> If you know the exact title of the item you want, input it in the **Item title** field. Or, if you know the index number, input it in the **Item index** field. When using the **Item index**, subsequent RSS text fields will automatically contain the next item in the index (i.e. the previous index number + 1).

d. **Media Counter**: Media Counters display how many times a file in the presentation has played. Each Media Counter field must correspond to a specific file. Use the dropdown list to pair the **Media Counter** field with a file in the presentation. To use this feature, Media Counters must first be enabled. Navigate to **File** > **Presentation Properties** > **Variables**. Then check the box labeled **Automatically create media counter variables**.

e. **User Variable**: User Variables are customizable values that can be used in commands. User Variables in Live Text display the current value of the specified User Variable. Use the dropdown list to specify a User Variable for the text field. To use this feature, you must first create your User Variable(s).

f. **RSS Feed**: Select this option to display an RSS feed. Click the **Update RSS URL List** button to create a list of Data Feeds to use as RSS. You can also choose whether you would like to display only the **RSS title** or display only the **RSS description**. You can only uncheck the title or description option if you do not have that field currently selected.

g. **Media RSS Feed**: Select this option to display an RSS feed. Click the **Update RSS URL List** button to create a list of Data Feeds to use as Media RSS. You can also choose among displaying the **RSS title**, **RSS description**, and **RSS image**. You can only uncheck an option if you do not have that field currently selected.

h. **Image**: Select this option to display another image over the background image. Select **Browse** to locate an image file to use in this item.

- **Validate Live Text Data**: Click this button to verify that the source URL for your feed is valid.
- **Layer**: Use these buttons to determine the layering of your Live Text elements. The background image will always be behind all other elements.
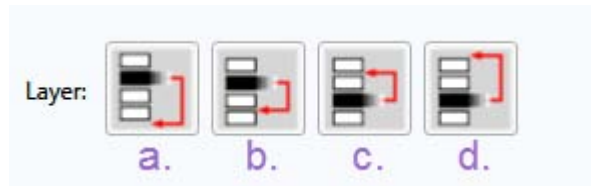
a. Sends the selected element behind all other elements.

b. Sends the selected element behind the element that is directly beneath it.

c. Sends the selected element in front of the element that is directly in front of it.

d. Sends the selected element to the front of all other elements.

- **Set Text Parameters**: While an individual text field is selected, click this button to edit parameters for that text field. Subsequent text fields will automatically contain the text parameters of the previous text field. You can edit the Number of lines, Rotation, Alignment, Foreground text color, Background text color (this appears behind the text field), Transparency (for background text colors), Font, and, under the **Advanced** tab, the Background Bitmap and Safe Text region. See Setting zone properties for details on text parameters.
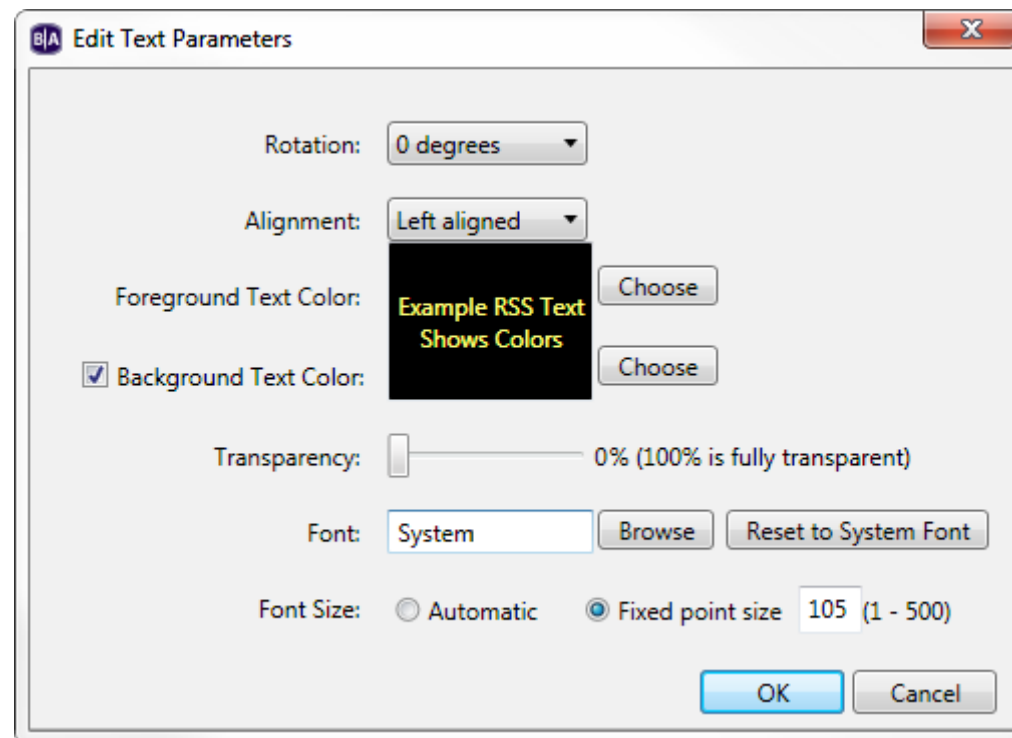
o   You can change the default text parameters in the **Edit Preferences** window: Go to **Edit > Preferences** and click on the **Live Text** tab. Changes to the default text parameters only apply to future Live Text states; changes to preexisting Live Text states will need to be made manually.

o   BrightAuthor 2.5 and earlier versions required a Background Text Color for each text field. Now you can use the checkbox beside Background Text Color to decide whether you want to include a Background Text Color. If you choose to include one, the **Transparency** setting will become enabled and you can edit the transparency of the Background Text Color. If you choose not to include a Background Text Color, characters in the text fields will appear directly over the background image.

- **Add Item**: Click to add a new text field. Select the text field in the preview image and edit the parameters as explained above.
- **Previous/Next**: Click these buttons to quickly switch between text fields.
- **Advanced**: Click to add commands. See <u>Adding Commands</u> for details.

As mentioned earlier, Live Text can be layered over both images or videos.

Live Text Images

If you want to use a still image behind your Live Text, you should add the Live Text to an Images zone. Complete the following steps for each zone you want to contain Live Text:

a.   Select an Images zone. Make the zone **Interactive**. Drag the **Live Text** icon from the **Other** tab.

b.   In the **Add Live Text** window, type a State name and then click **Browse** beside **Background Image**. Locate and select your desired background image file.

c.   Click **Add Text Item**. Adjust the **Size** and **Position** of your text field by clicking and dragging over the preview image, or inputting exact numbers in the corresponding fields.

d.   Select your **Text Type** and input the desired text.

e.   Click **Set Text Parameters** and edit text parameters as desired. See <u>Setting zone properties</u> for details on each parameter. Click **OK** when finished.

f.   Repeat steps c through f for each text field.

g.   Click **OK**.

Live Text Videos

Layering Live Text over a video requires two zones because you cannot add Live Text to a Video Only zone. Instead, you can add Live Text to an Image zone, and place it on top of a Video Only zone. To help you position text over the video, you need an image file cut from the video you want to use. Complete the following steps:

a.   Under **Layout**, click **Add Zone**. Add a Video Only zone.

b.   Click **Add Zone** again and add an Images zone. Resize the Images zone so that it completely covers the Video Only zone.

c.   Click **Playlist**, and use the Zone dropdown list to select your Video Only zone. Drag the desired video file from the Media Library to the playlist area. Make the zone **Interactive**.

d.   Use the dropdown list to select the Images zone. Make the zone **Interactive**. Drag the **Live Text** icon from the **Other** tab.

e.   In the **Add Live Text** window, click **Browse** beside **Background Image**. Locate and select an image file taken from the video file used in the Video Only zone.

f.   Click **Add Text Item**. Adjust the **Size** and **Position** of your text field by clicking and dragging over the preview image or inputting exact numbers in the corresponding fields.

g.   Select your **Text Type** and input the desired text.

h.   Click **Set Text Parameters** and edit text parameters as desired. See [Setting zone properties](#) for details on each parameter. Click **OK** when finished.

i.   Repeat steps f through h for each text field.

j.   When all text fields are in place, click **Clear** beside **Background Image**.

k.   Click **OK**.

Clearing the Background Image removes the image from the Image zone. The text fields will appear directly over the video. By temporarily including a Background Image taken from the video, you can better position the text fields in relation to the video playing behind the Image zone.

Interactive Menus

Interactive Menus are DVD-style menus that users can navigate with interactive events. By linking separate media to items in the Interactive Menu, you can allow users to interactively transition to a new state of their choice. Because they can serve as a bridge to many items and outline everything available to the user, Interactive Menus make great Home Screens.

To create an Interactive Menu, add a Video or Images zone to your presentation. Set the zone to **Interactive** and drag the Interactive Menu icon from the **Other** tab to the playlist area. The **Add Interactive Menu** window is divided into two tabs, **General** and **Menu Items**.

General: In this tab, you will select an image for your Interactive Menu and define how a user navigates it.
- **State name**: Create a unique name for your Interactive Menu.
- **Background Image**: Click **Browse** to select an image you want to act as your menu display.

Important: *The background image is not simply a background for the actual menu items. It must contain all images and text you want displayed in the menu.*
- **Set as initial state**: Check this checkbox to set the Interactive Menu as the Home Screen.

The **Navigation** section is where you define how a user navigates across the menu. Click the dropdown menu for each option (Up, Down, Left, Right, Enter, Back, Next clip, Previous clip) and select the type of event you want to utilize (GPIO Event, Serial input, etc.). A second dropdown menu or text field will appear. Specify the button or input you want to correspond to the action.

Let's say you want to define how to move **Up** in the menu, and you want to use a keyboard event. In the dropdown list across **Up**, select **Keyboard Input**. A text field will appear below where you can specify a button. Type "U" here. Now, when a user presses "U" on a keyboard, the cursor will move up along the menu items. You don't need to define every possible action. You can simply leave the dropdown list on the default **None**. However, to create a more intuitive

experience between the user and menu, it might be best to define each possible action. The following actions can be defined in the Navigation section:

- **Up, Down, Left, Right**: These are the primary actions a user will perform to navigate from one menu item to the next.
- **Enter**: With this button, a user can select a menu item and transition to a state associated with that menu item.
- **Back**: Once a user presses the defined input for **Enter** on a menu item, a state you have chosen in the **Menu Items** tab will play. However, if you define a **Back** button/input, the user can return to the menu at any point.
- **Next clip**: If a user is viewing a media file associated with a menu item, pressing the defined input for **Next clip** will play the media file that corresponds to the next menu item.
- **Previous clip**: Pressing the defined input for **Previous clip** will stop the media file currently playing, and play the media file associated with the previous menu item.
- **Advanced**: Click this arrow to add commands to your Interactive Menu. See Adding Commands for details. Here you can also store the background image in a cache. Check the checkbox to save the background image for faster loading in the future.

Menu Items: In this tab, you will create the menu items and further specify how a user navigates across the menu.

- **Menu Item Number**: Every menu item has a unique menu item number. The first you create is 1, the second is 2, and so on. Here, you can navigate between the menu items you have created by clicking the **Previous** and **Next** buttons. Everything else in the window corresponds to the menu item you have selected here.

The Menu Items section is where you can create and adjust individual menu items.

- **Add Menu Item**: Press this button to create a Menu item. The **Add Menu Item** window will open. There are two items, **Active Image** and **Inactive Image**. The **Active Image** serves as a cursor that visually informs the user what Menu item they are on. The **Inactive Image** is what appears beside the current menu item when the user navigates to a different menu item. Use the **Browse** buttons to select each image. Click **OK** to create the menu item. By default, subsequent menu items you create will contain the same Active and Inactive Images.

Tip: *If you want nothing to appear beside a Menu item when it is not selected, choose an Inactive image that matches the color of the background.*

- **Position**: Adjust the position of your Menu item by inputting specific numbers. The **X** field corresponds to the position of the menu item on a horizontal axis. The **Y** field corresponds to the position of the menu item on a vertical axis. Alternatively, you can click the active image in the preview image and drag it to the desired position. The inactive image will appear in the same spot when the menu item is not selected.

- **Offset next**: Check this checkbox to specify a position for subsequent menu items in relation to the previous menu items. Input the data in the **X** and **Y** fields.

- **Selected Image**: This is the active image you selected when creating the Menu item. Click **Browse** to change the image at any point.

- **Unselected Image**: This is the inactive image you selected when creating the menu item. Click **Browse** to change the image at any point.

- **Store image in cache**: Check this box to save the corresponding image in a cache so that you can use it more readily in the future.

The **Navigation** section is where you determine how a user moves from one menu item to the next. Although the actions were previously defined in the **General** tab, this is where you specify *which menu item* a specific action will bring a user. The possible actions are **Up**, **Down**, **Left**, and **Right**. In this section, each action has a dropdown list that displays the menu item number for each created menu item. By default, **None** is selected for each.

Selecting a number in the dropdown list will allow the user to navigate from the current menu item to the specified menu item by performing the corresponding action. Let's say you are adjusting the features of menu item number 1, meaning "1" is displayed between the **Previous** and **Next** buttons at the top of the window. If you click the dropdown list for the Down action and select 2, the user can now navigate from Menu item 1 to Menu item 2 by pressing the **Down** button. Remember, the buttons are whatever you previously defined in the **Navigation** section of the **General** tab.

The **Enter** section is where you can determine what happens when a user presses the **Enter** button on a particular Menu item. Set the following parameters:

- **Play clip**: Click the **Browse** button to select a file you want to play when the user presses the **Enter** button. If you select an image, the option to specify a timeout period will appear.
- **Transition to new state**: Here a dropdown list contains all the media files previously placed in the playlist area of your zone. Select a file to allow the user to transition to that state after pressing **Enter**.
- **Return to prior state**: If you select this option, the presentation will display the previous state when a user presses **Enter**.
- **Remain on current state**: If you select this option, the state will not change when a user presses **Enter**. However, you can add commands to specify changes that occur while remaining on the Interactive Menu. Click the **Advanced** tab to reveal the commands section. See Adding Commands for details.

Click **OK** when you are finished. Keep in mind that if you choose **Transition to new state** instead of **Play clip**, the state will not return to the Interactive Menu.
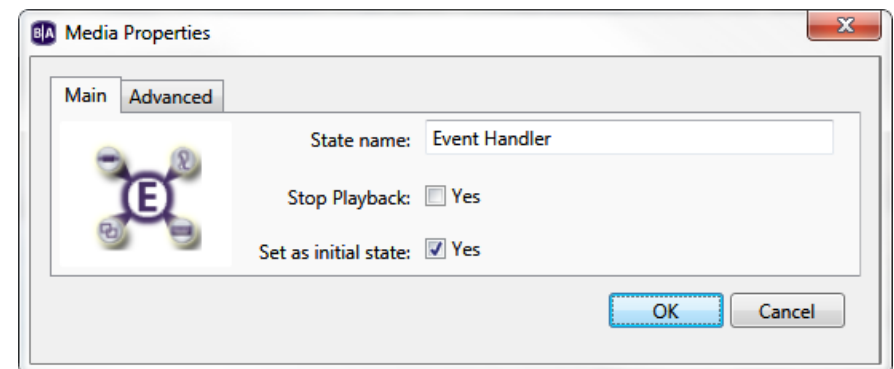
Event Handlers

There are a variety of cases in which you might want your presentation to sit at a blank screen. The Event Handler fills the role of an empty placeholder in your presentation. Here are a few cases where an Event Handler would be convenient:

- You want a blank screen for a Home Screen so no content will play until the presentation is activated.
- You want to add a command that is performed before the first file in the presentation plays.
- You want the presentation to sit at a blank screen when finished, instead of looping.
- You want a video file to remain on the final frame upon finishing, instead of looping.

Although Event Handlers contain no content, you can add commands and interactive events into and out of them. For example, if you set the Event Handler as the Home Screen and define a BP900 event linked from the Event Handler to the first presentation item, the display will sit at a blank screen until a user presses the BP900 button, and then the first item will begin playing. Alternatively, if you set an Event Handler as the Home Screen and add a Synchronize command to it, you can synchronize your presentations and/or displays before the first files begin playing.

To use an Event Handler, click the **Other** tab under Media Library and drag the icon into the playlist area.
1. **State Name**: Enter a unique name for the Media Handler state.
2. **Stop Playback**: Check this box if you would like audio/video playback to end once a media file transitions to the Event Handler state. If this box is left unchecked, audio/video playback will continue after a transition to the Event Handler state and loop until the Event Handler state is exited.
3. **Set as initial state**: Check this box if you would like to make the Event Handler the home state of the presentation.

Define interactive events into and out of the Event Handler as you would with any other state. See [Making a presentation interactive](#) for details. If you define a Media End event after a video and link it to an Event Handler, the video will remain on the last frame when finished. For other file types such as images or audio, the display will sit at a blank screen when the files finish playing.

Commands

Adding commands to your playlist allows you to add extended functionality to your presentations. Commands can help control displays and devices (Display On, GPIO On, etc.) or perform additional actions when interactive events are performed (Pause Video, Set Volume, etc.).

You can add commands either to Interactive Events or to media files. If you add a command to the [Interactive Event](#), the command will be performed when that event occurs. If you add a command to a media file, the command will be performed when the file plays (regardless of which state/event transitions to it).
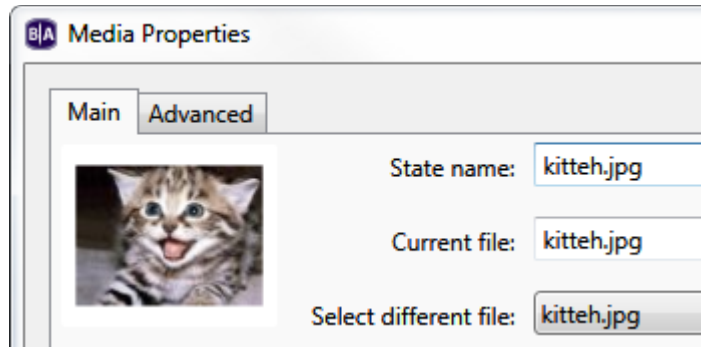
Adding Commands to an Interactive Event
Double-click the event icon in the playlist area and click the **Advanced** tab. Click **Add Command** and use the dropdown list under **Commands** to choose the category of the command. Use further dropdown lists and fields to set additional **Command Parameters**. When adding a command to an interactive event, you can either select a **Next State** or choose to **Remain on current state**.

Adding Commands to a State or Media File

Double-click the media file thumbnail in the playlist area and click the **Advanced** tab. Click **Add Command** and use the dropdown list to specify a command. Use further dropdown lists and fields to set additional parameters for the command.

Note: *There are a few other options under the* **Advanced** *tab. They will depend on the type of file you have selected. For image files, you will see a* **Store Image in Cache** *checkbox. Check this box to save the file in a cache and more readily use it in the future. For video files, you will see* **Video Display Mode**. *Depending on the type of video file, you can use the dropdown list to select 2D, 3D side-by-side, or 3D top-over-bottom. By default, 2D is selected.*

These are the commands you can add to your presentations:

BP900/BP200 Set Output: Sends a command to a BP900 or BP200 button panel. Use the dropdown list to select the type and enumeration of button pad to use. See the chapter on [BP900 and BP200 Button Panels](#) for more details.
- **Button number**: Use this dropdown list to choose a specific button number or to choose all buttons on the panel.
- **Action**: Use this dropdown list to specify the behavior of the button. You can choose to turn the button on or off. You can also set the button LED to fast blink, medium blink, or slow blink.

Set Audio: Changes the audio settings of a zone.
   Note: *If you set a command to change the audio output or audio mode of a media file while it is playing, then the change will not go into effect until the media file is restarted or is played through again.*
- **Zone**: Specifies the zone to which the following settings will apply.
- **Audio Output**: Enables or disables the Analog, HDMI, and SPDIF audio outputs.
- **Pass through**: Supplies the un-decoded audio signal through the HDMI/SPDIF connector. Use this option if the presentation audio (for example, AC3 Dolby Digital) is being decoded on an external device.
- **PCM**: Supplies the decoded audio signal through the HDMI/SPDIF connector.
- **Audio Mixing**: Sends the stereo, left-only, or right-only audio signal.

Connector Volume: Changes the audio settings of a specific connector.

- **Set volume**: Specifies the volume level. Select the Analog, HDMI, and SPDIF connector in the dropdown list and enter a volume value between 0 and 100 in the field.
- **Increment volume**: Specifies how much the volume level increases with each interaction. Select the Analog, HDMI, or SPDIF connector in the dropdown list.
- **Decrement volume**: Specifies how much the volume level decreases with each interaction. Select the Analog, HDMI, or SPDIF connector in the dropdown list.
- **Mute**: Turns the connector audio output off. Use the checkboxes to select among the Analog, HDMI, and SPDIF connectors.
- **Unmute**: Turns the connector audio output on. Use the checkboxes to select among the Analog, HDMI, and SPDIF connectors.

Zone Volume: Sets the volume for a zone. Note that the **Connector Volume** command takes precedence over the **Zone Volume** command when both are used in a presentation.

- **Set**: Specifies the zone to which this command applies. Enter a volume value between 0 and 100.
- **Increment**: Specifies how much the volume level increases with each interaction. Use the dropdown menu to select the zone to which this command applies.
- **Decrement**: Specifies how much the volume level decreases with each interaction. Use the dropdown menu to select the zone to which this command applies.

Send: Sends information using the following methods:

- **UDP**: Sends a command to the device using UDP protocols.
- **Send string (EOL)**: Sends the specified string to the specified serial port. This command adds a carrier return at the end of the string.
- **Serial string (no EOL)**: Sends the specified string to the specified serial port. This command does not add a carrier return at the end of the string.
- **Serial byte**: Sends the specified byte to the specified serial port.

- **Serial bytes (comma separated)**: Sends the specified bytes to the specified serial port in comma-separated format.

Link: Connects presentation zones or BrightSign players
- **Synchronize**: Specifies the [Synchronization](#) trigger.
- **Send zone message**: Specifies the [Zone Message](#) trigger.
- **Zones**: Specifies the [Link Zones](#) trigger.

GPIO: Sends a GPIO command.
- **On**: Turns on the specified GPIO output. Other GPIO outputs are not affected.
- **Off**: Turns off the specified GPIO output.
- **Set State**: Enables you to turn each GPIO line on or off.

Video: Changes the video playback settings:
- **Pause video:** Pauses video playback.
- **Resume video:** Resumes video playback.
- **Enable monitor power save mode:** Turns the monitor's power saving mode on.
- **Disable monitor power save mode:** Turns the monitor's power saving mode off.

BrightControl: Sends commands to monitors and other digital signage displays:
- **Display On:** Turns the display on.
- **Display Off:** Turns the display off.
- **Send Ascii String:** Sends a CEC command.
- **Set Philips Volume:** Sets Philips TV volume.

Other: Sends various commands that are not contained within the above categories.
- **Pause:** Pauses presentation playback for a specified number of milliseconds.
- **Reboot:** Restarts the BrightSign player.

- **Set variable**: Sets a specified value for a previously created <u>User Variable</u>. In the Variable field, type the exact name of the variable between two dollar signs on each side (for example, "$$variable1$$"). BrightAuthor will not recognize the variable without the dollar signs. In the **Value** field, specify a new value for the variable
- **Reset variables**: Resets all <u>User Variables</u> to their original values and all <u>Media Counters</u> to 0
- **Switch to Presentation:** Switches to a different presentation. The parameters set when creating the second presentation must match the first presentation. These parameters include the following: BrightSign Model, Connector Type, Screen Resolution, Monitor Orientation, and Monitor Overscan. In addition, make sure you type the exact name for the second presentation when creating the command.

Conditional Targets

Conditional targets allow you to change the settings of an event transition depending on the value of a <u>User Variable</u>. You can set multiple conditional targets for a single event.

1. Select the **Advanced** tab while creating or editing an event.
2. Click the **Set Conditional Targets** button.

Note: *This option will only be available if you have created one or more User Variables in the **File > Presentation Properties** window.*

3. Click **Add Additional Target** in the **Conditional Targets** window, or click a preexisting Conditional Target to edit.
4. Select the User Variable that will trigger the Conditional Target.
5. Enter the value of the User Variable in the **Equals** field. The Conditional Target will only take effect when the value of the User Variable is equal to the number in this field.
6. Select **Transition to new state** if you want to use the dropdown list to specify which file in the playlist will be the next state.
7. Select **Return to prior state** if you want the presentation to revert to the previous media file when the interactive event is performed.
8. Select **Remain on current state** if you want the state to remain unchanged when the interactive event is performed.

9. Select the **Advanced** tab to add Commands to the Conditional Target. Commands will trigger when the conditional target is met. See [Adding Commands](#) for more information.
10. Click **OK** to save the conditional target.

User Variables

There are several ways you can change the values of User Variables in an interactive presentation. See [Setting Presentation Properties](#) for more information about creating User Variables and setting default values.

Web Browser

You can view and update User Variables using a web browser. To do this, your computer must be connected to the same local network as the BrightSign player(s) you are using:

1. Navigate to **Tools > Setup BrightSign Unit**.
2. Check the **Enable local web server** box.
3. Enter a user name and password for the web server if desired.
4. Set the rest of the options in the **BrightSign Unit Setup** window and complete the unit configuration process (see [Chapter 2](#) for more information on setting up units).
5. Wait for the player to complete the entire boot process.
6. Use the address bar of a web browser to navigate to device IP port 8080. For example, if the IP address of your BrightSign player is `192.168.1.2`, then you would enter `192.168.1.2:8080`. You will be provided with a web page that lists all User Variables and allows you to modify them.

UDP or Serial Input Event

You can change the value of User Variables using input from UDP or serial ports:

1. Create a new UDP Event or Serial Input Event, or edit an existing one.
2. If you are editing a UDP Event, type `<any>` into the **Specify UDP input** field. If you are using a serial port, type `<*>` into the **Specify serial input** field.
3. Expand the **Advanced** options and check the box labeled **Assign input to variable**.

a. Select **Specify fixed variable** if you want to choose a fixed User Variable in the BrightAuthor presentation. Use the dropdown list to choose which User Variable the UDP input will modify. The UDP/serial string must be input in the form of `<variable value>`.

b. Select **Input specifies variable** if you want the UDP/serial input string to dynamically specify which User Variable is being modified. The UDP/serial string must be input in the form of `<variable name> : <variable value>`.
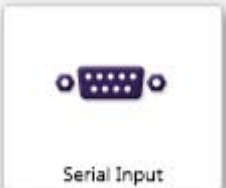
4. Press **OK** to save the settings.

Note: *If you select **Input specifies variable**, you can modify more than one User Variable with a single UDP Input Event or Serial Input Event. Use the following UDP/Serial string:* `<variable name> : <variable value> !! <variable name> : <variable value>`
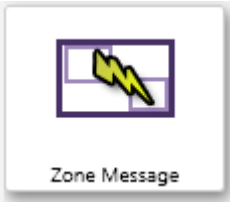
CHAPTER 5 – INTERACTIVE EVENTS

Interactive events can include any of the following. For all interactive events, make sure you define the next state after dragging the icon onto the current state:

Event	Description
Timeout 	Displays an item for a predetermined period of time before the next action occurs automatically. To define the length of the timeout interval, double-click the **Timeout** icon in the playlist area. In the **Specify timeout (seconds)** field, enter the number of seconds you want the item to display, and then click **OK**.
Media End 	Sets the action that occurs after a video or audio file finishes playing.
GPIO Event 	Sets the action that occurs when a specific GPIO button/input is pressed or activated. By default, the playlist toolbar includes several GPIO buttons that you can use to define interactions.

Event	Description
BP900/200 BP900A Event	Sets the action that occurs when a specific BP900 or BP200 button is pressed. There are six icons: BP900A, BP900B, BP900C, BP200A, BP200B, and BP200C. See [BP900 and BP200 Button Boards](#) for details.
Synchronize Synchronize	Synchronizes content with another BrightSign player on the same network. When the **Synchronize Event** window opens, enter a trigger in the **Specify synchronization keyword** field, and then click **OK**. **Note**: *The same event/trigger must be defined for each transition you want synchronized.*
UDP Input UDP Input	Sets the action that occurs when a BrightSign player receives input from a network device. Use this event when you want an external device to control BrightSign players using UDP (User Datagram Protocol or Universal Datagram Protocol). When the **UDP Input Event** window opens, enter the network address for the external device in the **Specify UDP input** field, and then click **OK**.
Serial Input Serial Input	Sets the action that occurs when a BrightSign player receives specific input from a device connected to the serial port. When the **Serial Input Event** window opens, enter the serial string that triggers the next event in the **Specify serial input** field, and then click **OK**. You can also specify whether you want to assign input to a User Variable under the **Advanced** options. Select **Input specifies variable** if the name of the User Variable will be specified in the serial-input string or **Specify fixed variable** if you want to choose the User Variable in BrightAuthor.

Event	Description
Rectangular Touch Rectangular Touch	Sets the action that occurs when the user touches the specified rectangular area on a touch screen. When the **Add Touch Event** window opens, drag the box to resize the touch area (or enter the exact **Size** and **Position)**. To add additional touch regions to the selected item, click **Add Touch Region**, define the parameters, and then click **OK**.
Keyboard Input Keyboard Input	Sets the action that occurs when a BrightSign player receives specific input from a keyboard. When the **Keyboard Input Event** window opens, enter the keyboard input that triggers the next event in the **Specify keyboard input** field, and then click **OK**.
USB Input USB Input	Sets the action that occurs when a BrightSign player receives input from a device connected to the USB port. When the **USB Input Event** window opens, enter the USB input that triggers the next event in the **Specify USB input** field, and then click **OK**.
Remote Input Remote Input	Sets the action that occurs when BrightSign receives specific input from a remote control (IguanaWorks USB transceiver required). When the **Remote Input Event** window opens, enter the remote character that triggers the next event in the **Specify remote input** field, and then click **OK**. See Appendix A for remote control codes.

Event	Description
Zone Message Zone Message	When combined with Sync Events, synchronizes multiple zones across separate displays. When **the Zone Message Event** window opens, specify the zone message trigger. Use this event with multi-zone video walls. For synchronizing multi-zones in one display, use a Link Zones event. **Note**: *The same event/trigger must be defined for each transition you want synchronized.*
Link Zones Link Zones	Synchronizes content in another zone. When the **Link Zones Event** window opens, enter the trigger in the **Specify link keyword** field, and then click **OK**. **Note**: *The same event/trigger must be defined for each transition you want synchronized.*
GPS GPS	Sets the action that occurs when a BrightSign unit, connected to a compatible USB GPS device, enters or exits a defined geographical region. When the **GPS Event** window opens, select whether you want the event to trigger as the device enters the defined region or leaves the defined region. Set the center of the region by entering the **Latitude** and **Longitude**. Then define the circular size of the region by entering the **Radius** in Miles or Kilometers. **Note:** *You can create more than one enter or exit region by adding multiple GPS events to a single state.*

Event	Description
Video Time Code Video Time Code	Performs commands at specific times during video playback. To define the commands and times, drag the **Video Time Code** icon onto the current state (video file). When the **Video Time Code Events** window opens, click **Add Time Code**, enter the **Timeout** interval, select the **Command** and **Parameters** from the corresponding lists, and then click **OK**. For more details, see Adding Commands.
Time/Clock Time/Clock	Performs commands at a specific time and date or at regular intervals on a recurring schedule. **Single date/time event** Specify the **Date** by entering it into the field or selecting it from the calendar view. Then specify the **Time** by using the dropdown menu. If you want the event to occur at an exact minute, type the desired time directly into the field. If you want to use the value of a User Variable to specify the date and time, select **Specify with user variable** and choose a variable you've created from the dropdown list. The value of the variable must be in this format: "yyyy-mm-ddThh:mm:ss". For example, if you would like the event to occur on December 20, 2012 at 3:45PM, then you would use the value "2012-12-20T15:35:00". **Daily timeout event** Choose whether you want the event to occur **Once per day** or to be **Periodic throughout the day**. If you select **Once per day**, specify the **Time** using the dropdown menu (or, if you want the event to occur at an exact minute, type the desired time directly into the field). If you select **Periodic throughout the day**, specify the **Interval between events** and the

| Event	Description
	times between which the interval occurs. You can also select days during which this event is active. **Note**: *If you choose to make the timeout event **Periodic throughout the day**, the first event will occur at the beginning of the active period.*

User Defined Events

This feature allows you to save interactive events you use often so that you can use them more readily in the future. All individual events can be added to your toolbar for immediate use, but, with User Defined Events, the parameters for your event are saved.

For example, if you frequently use a 5 second Timeout event, you can create a User Defined Event with this specification. In the future, instead of having to set each Timeout event to 5 seconds, you can use your previously created User Defined Event. In addition, you can group multiple events into your custom event. When defining an interaction with it, any interactive event within the User Defined Event will cause a transition to the next state. This will save you time by eliminating the need for defining each individual event. Simply create a list of events, save it as a User Defined Event, and define the event between the two states.

Click the **User Events** tab under Media Library. To create/edit User Defined Events, click **Manage**. The **Manage User Events** window will open. This window contains a list of all previously created User Defined Events. Complete any of the following:

- **Create a User Defined Event**: Click **Add User Event**. When prompted, type a unique name for your User Defined Event. Click **Add Event** and use the dropdown list to select an interactive event. Repeat for each event you want included in the User Defined Event. Click **OK** when you are finished.
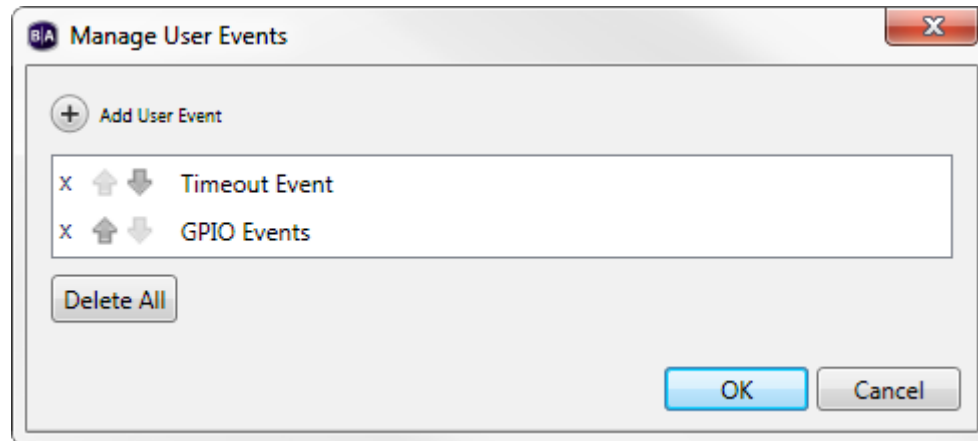
- **Edit a User Defined Event**: Click the appropriate name from the list in the Manage User Events window. Make the desired changes in the User Event window.
- **Organize User Defined Events**: Click the arrows to arrange the order of the list by moving a User Defined Event up or down.
- **Delete User Defined Events**: Click the **X** beside a name from the list. Or, click **Delete All** to erase the entire list.

To use a User Defined Event in a playlist, click the **User Events** tab under the Media Library. All previously created User Defined Events will be listed here. Drag the appropriate icon from the list onto the current state. In the **Events** window, specify which media file you want to be the **Next State**. Follow the usual steps for defining the event (see Making a presentation interactive for details).

You can also import previously created User Defined Events into BrightAuthor or export them from BrightAuthor. Click **File** > **Import User Events / Export User Events**. If you are importing, browse to the location where the events are stored. If you are exporting, browse to a location where you want to export all User Defined Events currently saved in BrightAuthor.

CHAPTER 6 – THE TD1012

The TD1012 is a freestanding, all-inclusive digital signage solution that you can easily place on tables, counters, or wherever signage is most needed. The TD1012's high resolution screen and BrightSign player are built into a durable steel casing and can be powered for approximately 12 hours by the rechargeable battery.

Creating presentations for your TD1012 is fundamentally similar to creating presentations for any other BrightSign player. See Creating Presentations for details. However, the following details are unique to the TD1012:

- In the New Project window, the **Screen resolution** dropdown list only contains 1360x768x60p. This is the only resolution supported by the TD1012.
- The TD1012 does not support Audio. You may include videos in your TD1012 presentations, but no audio associated with the videos will play.

Note: *When creating presentations for your TD1012 unit, you may encounter audio settings. For example, the Audio Only zone is still available when you click* **Add Zone***. None of these audio options apply to the TD1012.*

- The TD1012 supports wireless network connectivity only.
- There are only two System templates included in the **Template** window (after clicking **Create**). However, you can still add/adjust zones and save your own custom templates. See Customizing template layouts for details.
- The TD1012 only supports interactivity through network commands. Use the **UDP Input** icon to define interactive events. See Making a presentation interactive for details.

Note: *You can also use Timeout, Media End, Synchronize, Zone Message, Link Zones, and Video Time Code events.*

- As usual, clicking the **Layout** tab allows you to adjust the position and size of your zones. However, the preview image in the right portion of the screen is rotated 90 degrees because the preview image is always landscape oriented, but the screen of the TD1012 is actually a portrait display. Therefore, when adjusting zones for your TD1012 presentation, refer to the image on the *left* side of the screen. This will show you how the zones will appear to a viewer when the presentation is playing.

Publishing and customizing TD1012 presentations is no different from other BrightSign units. See Publishing Presentations and Customizing Presentations for details.
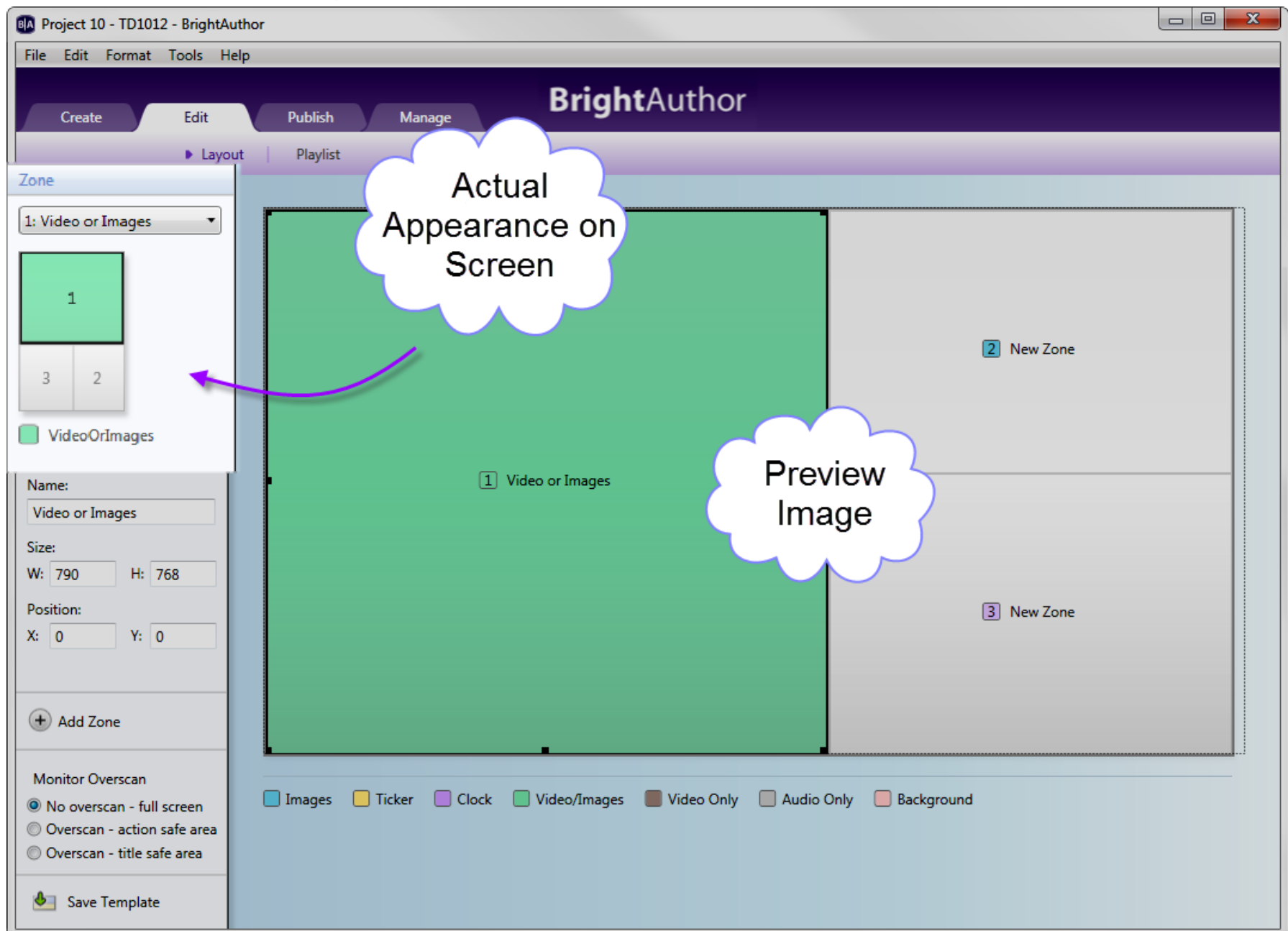
CHAPTER 7 – BP900 AND BP200 BUTTON PANELS

The BP900 and BP200 button panels are LED-based touch devices that allow you to add interactivity to your BrightAuthor presentations. These button panels are compatible with any BrightSign device that has a USB port: HD810, HD1010, HD1010w, HD1020, XD230, and XD1230.

There are a total of six event icons: BP900A, BP900B, BP900C, BP200A, BP200B, and BP200C. The letters A, B, and C correspond to USB ports. If the event you are defining is for a button pad connected to USB port 1, use A. If it is for a button pad connected to the second port, use B. Let's say you are using an XD1230 and, therefore, have two available USB ports. If you want to connect two button boards, a BP900 and a BP200, you would use the BP900A and BP200B icons to define events for each.

Using BP900 and BP200 Events

1. Make your presentation interactive by clicking **Interactive** in the upper-right side of the playlist area.
2. Define the BP900 or BP200 interactive event:
    a. Choose the proper event icon based on what kind of button pad you are using (BP900 or BP200), and how many button pads you are connecting.
    b. Define the BP900 or BP200 event as you would any other event. See Making a presentation interactive for details.
    Note: *If the icon you need is not in the toolbar, click the toolbar arrow in the upper-right portion of the screen to add it to your toolbar. Or, you can click the* **Events** *tab and drag the icon to the playlist area.*
    c. The **BP900 Event** or **BP200 Event** window will automatically open. Specify the following parameters for your event:
        - **Specify Button Number**: Select a button on the button pad that you want the user to press to transition to the next state.

- **Press (First Touch)**: Determine whether you want the transition to occur after one push of the button.
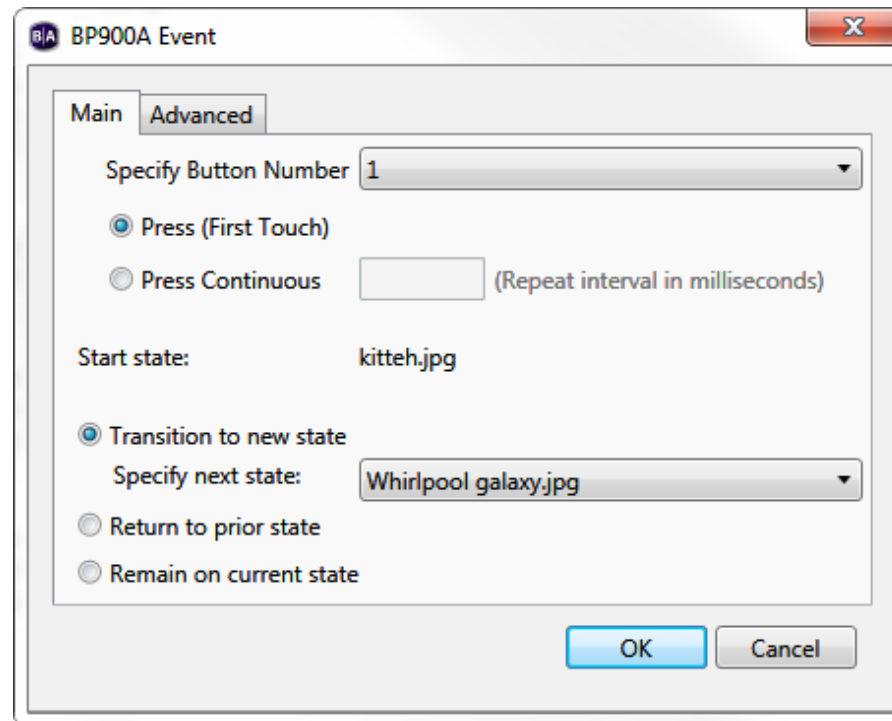
- **Press Continuous**: Determine whether you want the user to continually press the button. Specify a repeat interval in the text field (in milliseconds).
- **Transition to new state**: Click to specify which media file in your playlist will be the next state when the specified button is pushed.
- **Return to prior state**: Click to revert the presentation to the previous media file when the specified button is pushed.
- **Remain on current state**: If you select this option, the state will not change when the interactive event is performed. This option is useful for creating changes within one media file. You can create these changes by adding commands. See Adding Commands for details.

- **Advanced**: Click the **Advanced** arrow to reveal the display options and commands section. Here you can set how you view the interactive events between states in the playlist area. **Show line** draws a line between the media files. **Show label** creates a label either to the **Right** or **Bottom** of the media file that indicates transitions from states. See [Adding Commands](#) for details on commands.

d. Click **OK**. Repeat steps a. through c. to define the remaining button pad events.

CHAPTER 8 – PUBLISHING PRESENTATIONS

After you create and save a presentation, you're ready to publish it to your BrightSign player or players. There are four ways to publish a presentation:

- Local Storage
- BrightSign Network
- Local Networking
- Simple File Networking

The method you use to publish should depend on several factors, such as whether your player is networked, what kind of network you have access to, and how many players you have.

Publishing with Local Storage

Publishing a presentation using Local Storage lets you copy your presentations to an SD card or USB flash drive. When you want to update your scheduled presentations, you must save the updated content on the SD card or USB flash drive and insert it into your BrightSign player.

Unless you are updating content, an SD card or flash drive should always remain connected to the BrightSign player. However, if your BrightSign has a USB port, it is recommended that you create setup files with an SD card, leave it permanently in the player as internal storage, and use a USB flash drive whenever you need to update content. You can publish updated content to the USB flash drive, insert it into the BrightSign to update the SD card, and then remove the flash drive. To publish via Local Storage, complete the following steps:

1. Save the presentations you want to publish by clicking **File** > **Save… As**. You will also be prompted to save a presentation if there are unsaved changes to the presentation when you switch to the **Publish** tab.
2. Add the presentations you want to publish:
    a. Click the **Publish** tab.

b. Click **Local Storage** (below the **Publish** tab).

c. Click **Browse** under **Presentations** to navigate to and select the folder where your presentations are stored.

3. Create schedules for each presentation you wish to publish:

a. Select a presentation from the list in the **Presentations** section.

b. Drag the presentation to a time slot during which you want it to play.

c. Click and drag the selection handles to adjust playing time within one day.

Note: *Alternatively, you can schedule a presentation by double-clicking a blank area on the schedule to open the **Schedule Presentation** window.*

d. If you want the presentation to be a recurring event, double-click a presentation timeframe in the calendar. In the **Schedule Presentation** window, set the following parameters:

- **Presentation**: Specify which presentation you want to schedule.
- **Active all day, every day**: Check this box if you want the presentation to play 24 hours a day.
- **Event time**: Specify the timeframe when you want the presentation to play by using the dropdown lists beside **Start** and **End**.
- **Recurring Event**: Check this box if you want the presentation to recur during specified times.
- **Recurring pattern**: Specify the frequency for the recurrence. If you click **Daily**, you can specify **Every day**, **Every weekday**, or **Every weekend**. If you click **Weekly**, you can view a checklist of every day of the week. Specify the individual days of the week when you want the presentation to play.
- **Range of recurrence**: Use the calendar beside **Start** to specify the first day you want the presentation to play. If you want the event to stop recurring at some point, click **End by** and use the calendar to specify the date. If you don't want it to stop, click **No end date**.

e. Click **OK**. The adjustments you made will be represented in the calendar.

f. If prompted, indicate whether you want to replace the existing schedule and then click **OK**.

g. Repeat steps b through e for each presentation you want to schedule.
4. (Optional) Specify debugging, logging, and firmware preferences:
   a. Under **Debugging**, use the checkboxes to enable/disable **serial debugging** and **system log debugging**.
   b. Click **Specify Logging** and use the checkboxes in the **Logging** window to have the player generate logs while it operates.

c. Click **Specify Firmware Update** and indicate whether you want to update the firmware and to which version. The **Firmware Update** window is divided by BrightSign generation. In the section that corresponds to your BrightSign unit, select a firmware version or **Do not update** and then click **OK**.

5. (Optional) Check the **Publish zip file for USB update** box if you want to use a USB flash drive to update the SD card in the BrightSign player. You can use this feature to update content on a standalone device without ever needing to remove the SD card.

6. (Optional) Click the **Specify Password** button if you are publishing a USB content update to a player or set of players with password protection, or if you would like to set up, change, or remove password protection for USB content updates. The password protection feature helps to ensure that a player will not be updated with incorrect schedules or data. The options shown by this button depend on whether or not you have checked the **Publish zip file for USB update** box:

   a. If the **Publish zip file for USB update** box is checked: Enter the **USB Content Update Password**. You must enter the same upgrade password designated for the player, or else the player content upgrade will fail. You can choose the password when you set the player up for standalone use or when you use the **Set New Password** feature (see below).

   Note: *If no update password is currently set for the player, entering a phrase here will designate it as the new update password.*
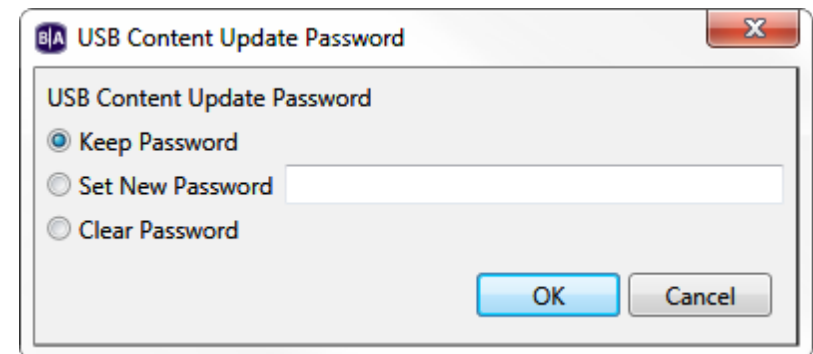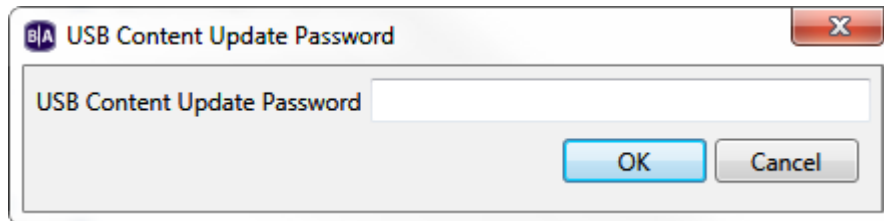
   b. If the **Publish zip file for USB update** box is unchecked: Choose one of the following:
      - **Keep Password**: Leaves the current content update password for the player unchanged.

- **Set New Password**: Changes the content update password for the player. Enter the new password in the field.
- **Clear Password**: Removes the content update password. This allows USB updates to be published to the SD card without restriction.

7. Publish the presentation to your storage device:
   a. Insert a storage device into your computer (SD card or USB flash drive).
   b. Under **Publish to**, click **Browse** to navigate to and select the drive where your storage device is located.
   c. Click **Publish**. When the **Publish complete** window opens, click **OK**.
8. Update your BrightSign player:
   a. Turn off the BrightSign player by unplugging the power adapter.
   b. Insert the storage device from step 4 into the player.
   c. Turn on the player by reconnecting the power adapter.
   d. Leave the storage device in the player.

   Note: *If an SD card is already in the player and you are updating it via USB, you don't need to turn off the player. Insert the USB flash drive into the player, wait until the **Update Complete** message appears on the display, and then remove the flash drive.*

Publishing with BrightSign Network

Publishing with BrightSign Network enables you to distribute your presentation to your BrightSign players using an Internet connection.

BrightSign Network requires a subscription, so you must first contact BrightSign to obtain an account name, user name,

and password. Once your BrightSign players are set up with BrightSign Network (see Adding BrightSign units to your BrightSign Network), you can upload your presentations to the BrightSign Network server, publish schedules, and manage content. Your players will update their content automatically whenever they connect to the server.

Publishing with BrightSign Network sends presentations and schedules to groups instead of players. Groups can contain

any number of players, and you can move BrightSign players from one group to another at any point. See Managing your Network for details. To publish with BrightSign Network, complete the following steps:

1. Sign into BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Open the presentation you wish to publish by selecting **File** > **Open presentation**.
3. Click **Upload to network** (in the upper-right portion of the screen) to upload the presentation to the server.
4. Specify to which group you want to publish:
   a. Click the **Publish** tab in the upper-left portion of the screen.
   b. Click **BrightSign Network** (above the calendar).
   c. Under **Selected Group to Schedule**, use the dropdown list to specify the group to which you want to publish.
5. Create schedules for each presentation you want to publish:
   a. Select a presentation from the **Presentations** dropdown list.
   b. Drag the presentation to a time slot during which you want it to play.
   c. Click and drag the selection handles to adjust playing time within one day.
   Note: *Alternatively, you can schedule a presentation by double-clicking a blank area on the schedule to open the **Schedule Presentation** window.*
   d. If you want the presentation to be a recurring event, double-click the highlighted presentation name in the calendar. In the **Schedule Presentation** window, set the following parameters:
      - **Presentation**: Specify which presentation you want to schedule.
      - **Active all day, every day**: Check this box if you want the presentation to play 24 hours a day.
      - **Event time**: Specify the time during the day when you want the presentation to play by using the dropdown lists beside **Start** and **End**.
      - **Recurring Event**: Check this box if you want the presentation to recur during specified times.

- **Recurring pattern**: Specify the frequency for the recurrence. If you click **Daily**, you can specify **Every day**, **Every weekday**, or **Every weekend**. If you click **Weekly**, you can view a checklist of every day of the week. Specify the individual days of the week when you want the presentation to play.
- **Range of recurrence**: Use the calendar beside **Start** to specify the first day you want the presentation to play. If you want the presentation to stop recurring at some point, click **End by** and use the calendar to specify the date. If you don't want it to stop, click **No end date**.

e. Click **OK**. The adjustments made will be represented in the calendar.

f. If prompted, indicate whether you want to replace the existing schedule and then click **OK**.

g. Repeat steps b through e for each presentation you want to schedule.

6. (Optional) Specify debugging and firmware preferences:

a. Under **Debugging**, use the checkboxes to enable/disable **serial debugging** and **system log debugging**.

b. Click **Specify Firmware Update** and indicate whether you want to update the firmware and to which version. The **Firmware Update** window is divided by BrightSign generation. In the section that corresponds to your BrightSign player, select a firmware version or **Do not update**, and then click **OK**.

7. Publish the presentation:

a. Click **Publish Schedule**. When the **Publish Complete** window opens, click **OK**.

Publishing with Simple File Networking

Simple File Networking enables you to distribute your presentation to your BrightSign players via a web folder. Your player must be set up for Simple File Networking with the correct **URL for web folder** used during setup. See Adding BrightSign units to your Simple File Network for details.

1. In BrightAuthor, save the presentations you want to publish by clicking **File** > **Save… As**

2. Add the presentations you want to publish:

a. Click the **Publish** tab in the upper-left side of the screen.

b. Click **Simple File Network** (above the Calendar).

c. Under **Presentations**, click **Browse** to navigate to and select the folder where your presentations are stored.

3. Create schedules for each presentation you want to publish:

a. From the list under **Presentations**, select a presentation.

b. Drag the presentation to a time slot during which you want it to play.

c. Click and drag the selection handles to adjust playing time within one day.

Note: *Alternatively, you can schedule a presentation by double-clicking a blank area on the schedule to open the **Schedule Presentation** window.*

d. If you want the presentation to be a recurring event, double-click the highlighted presentation name in the

calendar. In the Schedule Presentation window, set the following parameters:

- **Presentation**: Specify which presentation you want to schedule.
- **Active all day, every day**: Check this box if you want the presentation to play 24 hours a day.
- **Event time**: Specify the time during the day when you want the presentation to play by using the dropdown lists beside **Start** and **End**.
- **Recurring Event**: Check this box if you want the presentation to recur during specified times.
- **Recurring pattern**: Specify the frequency for the recurrence. If you click **Daily**, you can specify **Every day**, **Every weekday**, or **Every weekend**. If you click **Weekly**, you can view a checklist of every day of the week. Specify the individual days of the week when you want the presentation to play.
- **Range of recurrence**: Use the calendar beside **Start** to specify the first day you want the presentation to play. If you want the event to stop recurring at some point, click **End by** and use the calendar to specify the date. If you don't want it to stop, click **No end date**.

e. Click **OK**. The adjustments made will be represented in the calendar.

f. If prompted, indicate whether you want to replace the existing schedule and then click **OK**.

g. Repeat steps b through e for each presentation you want to schedule.

4. (Optional) Specify debugging and firmware preferences:

a. Under **Debugging**, use the checkboxes to enable/disable **serial debugging** and **system log debugging**.

b. Click **Specify Firmware Update** and indicate whether you want to update the firmware and to which version. The **Firmware Update** window is divided by BrightSign generation. In the section that corresponds to your BrightSign unit, select a firmware version or **Do not update**, and then click **OK**.

5. Publish the presentation:

a. Under **Simple File Networking Parameters**, click **Set Parameters**.

b. Under **Unit Configuration**:

- **URL for web folder**: Type the URL for your web folder. This must match the URL you entered when setting up your device for Simple File Networking.
- **Content Check Frequency**: Use the dropdown list to specify how often you want the player to connect to the server to check for content and scheduling updates.

- (Optional) **Limit content downloads**: Check this box and use the dropdown lists beside **Start of range** and **End of range** to specify the times during the day when content can be downloaded.

c. (Optional) Under **Logging**, check any of the following boxes to enable the corresponding logs:

- **Enable playback logging**: Creates a log that records start and end times, zone names, media types, and file names.
- **Enable event logging**: Creates a log that records timestamps, state names, zone names, event types, and event data.
- **Enable state logging**: Creates a log that records current and last state names, timestamps, and media types.
- **Enable diagnostic logging**: Creates a log that records timestamps, firmware and script versions, and the current presentation.

d. Under **Upload Logs**, use the following checkboxes to determine the settings for uploading logs to the server.

- **On startup**: Uploads log files each time you start the unit.

- **At specific time each day**: Uploads log files daily at the specified time. Use the dropdown menus to determine a time.

e. (Optional) Under **Rate Limit Network Download Traffic**, set parameters for download traffic. The options are divided into **Outside content download window**, **During content download window**, and **During initial downloads**.

- Click **Unlimited download rate** to set no limit.
- Click **Default limit** to use the default limit on downloads.
- Click **Specify limit** to enter a customized limit on downloads in the text field (in Kbits/seconds).

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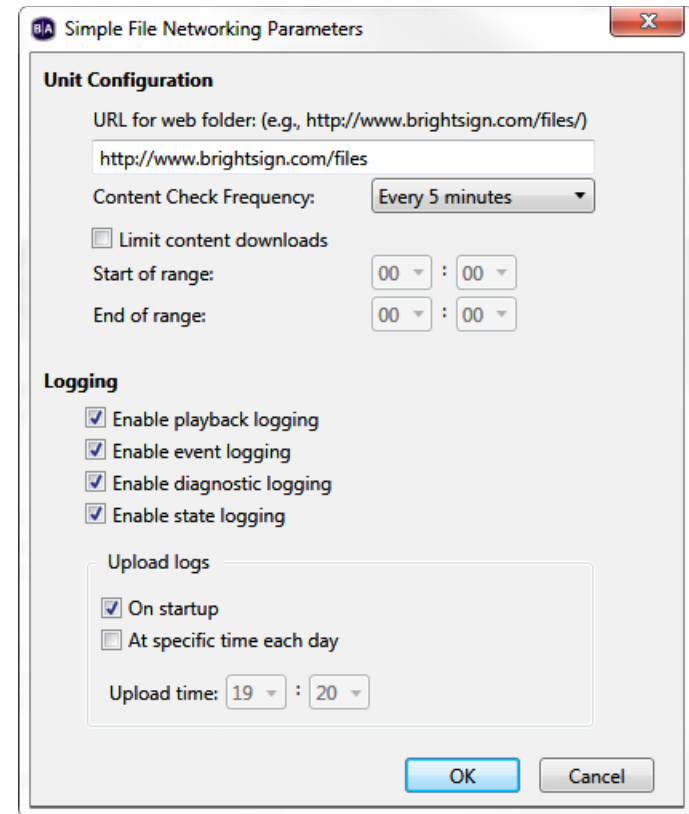
e. Click **OK**.

f. Under **Publish to**, click **Browse** to navigate to and select the location where you want to store the files.

- If you have a mapped drive or shortcut that points to your web folder, publish to that location.
- If you use FTP to transfer files to your web folder, publish to a folder on your computer and then use FTP software to copy the files to your web folder.

g. Click **Publish**. When the **Publish Complete** window opens, click **OK**.

Publishing with Local Networking

Publishing a presentation with a local network lets you distribute your presentation to BrightSign players without using an Internet connection. This is convenient if you only have a small number of BrightSign players that are all on the same local network. With Local Networking, the BrightSign player does not need to poll the web server to receive updates. You can simply select a BrightSign player using BrightAuthor and publish a presentation directly to it. Updates will then be sent to the BrightSign player immediately.

1. Save the presentation you want to publish by clicking **File** > **Save As**

2. Add the presentation you want to publish:
   a. Click the **Publish** tab in the upper-left side of the screen.
   b. Click **Local Network** (above the Calendar).
   c. Under **Presentations**, click **Browse** to navigate to and select the folder where your presentations are stored.

3. Create schedules for each presentation you want to publish:
   a. From the list under **Presentations**, select a presentation.
   b. Drag the presentation to a time slot during which you want it to play.
   c. Click and drag the selection handles to adjust playing time within one day.
   Note: *Alternatively, you can schedule a presentation by double-clicking a blank area on the schedule to open the **Schedule Presentation** window.*
   d. If you want the presentation to be a recurring event, double-click the highlighted presentation name in the calendar. In the **Schedule Presentation** window, set the following parameters:

- **Presentation**: Specify which presentation you want to schedule.
- **Active all day, every day**: Check this box if you want the presentation to play 24 hours a day.
- **Event time**: Specify the time during the day when you want the presentation to play by using the dropdown lists beside **Start** and **End**.

- **Recurring Event**: Check this box if you want the presentation to recur during specified times.
- **Recurring pattern**: Specify the frequency for the recurrence. If you click **Daily**, you can specify **Every day**, **Every weekday**, or **Every weekend**. If you click **Weekly**, you can view a checklist of every day of the week. Specify the individual days of the week when you want the presentation to play.
- **Range of recurrence**: Use the calendar beside **Start** to specify the first day you want the presentation to play. If you want the presentation to stop recurring at some point, click **End by** and use the calendar to specify the date. If you don't want the presentation to stop, click **No end date**.

   e. Click **OK**. The adjustments made will be represented in the calendar.
   f. If prompted, indicate whether you want to replace the existing schedule and then click **OK**.
   g. Repeat steps b through e for each presentation you want to schedule.
4. (Optional) Specify debugging and firmware preferences:
   a. Under **Debugging**, use the checkboxes to enable/disable **serial debugging** and **system log debugging**.
   b. Click **Specify Firmware Update** and indicate whether you want to update the firmware and to which version. The **Firmware Update** window is divided by BrightSign generation. In the section that corresponds to your BrightSign player, select a firmware version or **Do not update**, and then click **OK**.
5. Publish the presentation:
   a. Under **Publish**, select a BrightSign player.
      - If publishing to a new player, click **New unit**. Then click the ⊕ button. The **Add BrightSign Unit** window will open. Type the IP address of the new BrightSign unit, and click **OK**.
      - If you want to publish to a previously added BrightSign player, click **Networked units**. Select a unit from the ⟳ of all networked units. Click to refresh the list.
   b. Click **Publish**. When the **Publish Complete** window opens, click **OK**.
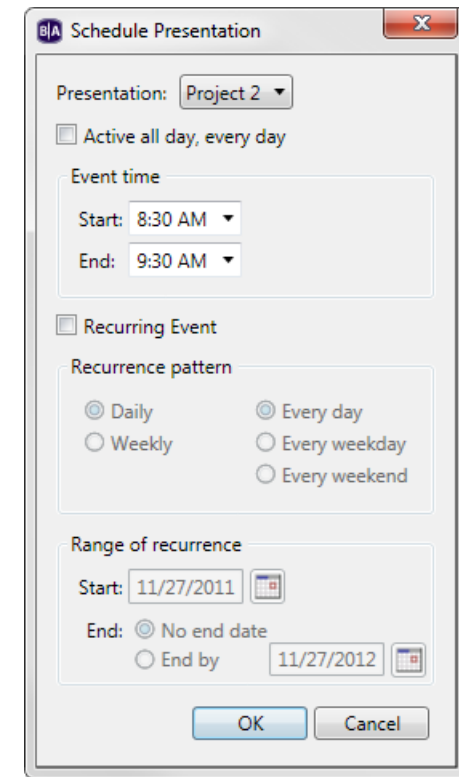
Note: *When publishing to a new player, the **BrightSign Unit Setup** window will open after you click* **Publish***. See* [Adding BrightSign Players to your Local Network](#) *for details.*

CHAPTER 9 – CUSTOMIZING PRESENTATIONS

This chapter will describe the different ways you can customize your presentations.

Setting Zone Properties

Whether you're creating a single-zone or a multi-zone presentation, you can customize the settings for each zone.

1. Open a presentation project by clicking **File** > **Open Presentation**.
2. Click on the **Edit** tab and then the **Playlist** subgroup.
3. Below **Zone** in the upper-left portion of the screen, click the zone whose properties you want to change.
4. Click **Zone Properties**. Different options will appear depending on the type of zone that is selected

Editing Video Only and Video or Images Zones

The settings that appear in this window will the depend on the model of BrightSign player you are using:

HD110, HD210

- **View mode**: Use the dropdown list to specify a setting for videos.
  - **Scale to fit**: Scales the video to fill the screen without maintaining the aspect ratio. The video may appear stretched.
  - **Letterboxed and centered**: Centers the video and adds black borders on the top and bottom. The aspect ratio is maintained.
  - **Fill screen and centered**: Centers the video and fills the screen. The aspect ratio is maintained.
- **Audio settings**: Use the dropdown list to specify the type of audio you want to use in the zone.
- **Image mode**: Use the dropdown list to specify a setting for images.
  Note: *This option also appears when editing Images zones, but not when editing Video Only zones.*
  - **Center image**: Centers the image without scaling. This may result in cropping if the image is too large.

- o **Scale to fit**: Scales the image to fit the zone. The image is displayed as large as possible with the correct aspect ratio.
- o **Scale to fill and crop**: Scales the image to completely fill the zone while maintaining the aspect ratio.
- o **Scale to fill**: Scales the image to fill the zone without maintaining the aspect ratio.
- **Initial volume (Audio)**: Set the initial volume for audio files (0-100).
- **Initial volume (Video)**: Set the initial volume for video files (0-100).

HD810, HD1010
- **View mode**: Use the dropdown list to specify a setting for videos.
  - o **Scale to fit**: Scales the video to fill the screen without maintaining the aspect ratio. The video may appear stretched.
  - o **Letterboxed and centered**: Centers the video and adds black borders on the top and bottom. The aspect ratio is maintained.
  - o **Fill screen and centered**: Centers the video and fills the screen. The aspect ratio is maintained.
- **Audio settings**: Use the dropdown list to specify the type of audio you want to use in the zone.
- **Image mode**: Use the dropdown list to specify a setting for images.
Note: *This option also appears when editing Images zones, but not when editing Video Only zones.*
  - o **Center image**: Centers the image without scaling. This may result in cropping if the image is too large.
  - o **Scale to fit**: Scales the image to fit the zone. The image is displayed as large as possible with the correct aspect ratio.
  - o **Scale to fill and crop**: Scales the image to completely fill the zone while maintaining the aspect ratio.
  - o **Scale to fill**: Scales the image to fill the zone without maintaining the aspect ratio.
- **Initial volume (Audio)**: Set the initial volume for audio files (0-100).
- **Initial volume (Video)**: Set the initial volume for video files (0-100).
- **Live video**: Set attributes for live video feeds. Use the dropdown lists to select the **Input** and **Video Standard** types. In the text fields, enter parameters for Brightness, Contrast, Saturation, and Hue.

HD120, HD220, HD1020, XD230

- **View mode**: Use the dropdown list to specify a setting for videos.
    - o **Scale to fit**: Scales the video to fill the screen without maintaining the aspect ratio. The video may appear stretched.
    - o **Letterboxed and centered**: Centers the video and adds black borders on the top and bottom. The aspect ratio is maintained.
    - o **Fill screen and centered**: Centers the video and fills the screen. The aspect ratio is maintained.
- **Audio Output**: Enables or disables the Analog and HDMI audio outputs for the zone.
    - o **Pass through**: Supplies the un-decoded audio signal through the HDMI connector. Use this option if the zone audio (for example, AC3 Dolby Digital) is being decoded on an external device.
    - o **PCM audio**: Supplies the decoded audio signal through the HDMI connector.
- **Audio Mixing**: Sends the stereo, left-only, or right-only audio signal.
- **Image mode**: Use the dropdown list to specify a setting for images.

Note: *This option also appears when editing Images zones, but not when editing Video Only zones.*

- o **Center image**: Centers the image without scaling. This may result in cropping if the image is too large.
- o **Scale to fit**: Scales the image to fit the zone. The image is displayed as large as possible with the correct aspect ratio.
- o **Scale to fill and crop**: Scales the image to completely fill the zone while maintaining the aspect ratio.
- o **Scale to fill**: Scales the image to fill the zone without maintaining the aspect ratio.
- **Initial volume (Audio)**: Set the initial volume for audio files (0-100).
- **Initial volume (Video)**: Set the initial volume for video files (0-100).

XD1030, XD1230

- **View mode**: Use the dropdown list to specify a setting for videos.
    - o **Scale to fit**: Scales the video to fill the screen without maintaining the aspect ratio. The video may appear stretched.
    - o **Letterboxed and centered**: Centers the video and adds black borders on the top and bottom. The aspect ratio is maintained.

- o **Fill screen and centered**: Centers the video and fills the screen. The aspect ratio is maintained.
- **Audio Output**: Enables or disables the Analog, HDMI, and SPDIF audio outputs for the zone.
  - o **Pass through**: Supplies the un-decoded audio signal through the HDMI/SPDIF connector. Use this option if the zone audio (for example, AC3 Dolby Digital) is being decoded on an external device.
  - o **PCM audio**: Supplies the decoded audio signal through the HDMI/SPDIF connector.
- **Audio Mixing**: Sends the stereo, left-only, or right-only audio signal.
- **Image mode**: Use the dropdown list to specify a setting for images.

Note: *This option also appears when editing Images zones, but not when editing Video Only zones.*

  - o **Center image**: Centers the image without scaling. This may result in cropping if the image is too large.
  - o **Scale to fit**: Scales the image to fit the zone. The image is displayed as large as possible with the correct aspect ratio.
  - o **Scale to fill and crop**: Scales the image to completely fill the zone while maintaining the aspect ratio.
  - o **Scale to fill**: Scales the image to fill the zone without maintaining the aspect ratio.
- **Initial volume (Audio)**: Set the initial volume for audio files (0-100).
- **Initial volume (Video)**: Set the initial volume for video files (0-100).

Editing Ticker Zones

- **Number of lines**: Set the number of lines of text in the Ticker zone.
- **Time to display each line**: Set how long each line displays in the Ticker zone (in seconds).
- **Rotation**: Use the dropdown list to select the angle of text in the Ticker zone.
- **Alignment**: Use the dropdown list to set whether text is left aligned, right aligned, or centered in the Ticker zone.

Note: *If you're using a right-to-left language (such as Hebrew or Arabic) in your ticker zone, the right/left alignment settings will be inverted. For example, setting a ticker zone with an Arabic RSS feed to "Right aligned" will actually align the text to the left side of the zone.*

- **Text appearance**: Set whether text is animated or static in the Ticker zone.
- **Foreground text color**: Click **Choose** and select a color for text in Ticker or Clock zones.
- **Background text color**: Click **Choose** and select the color behind text in Ticker or Clock zones.
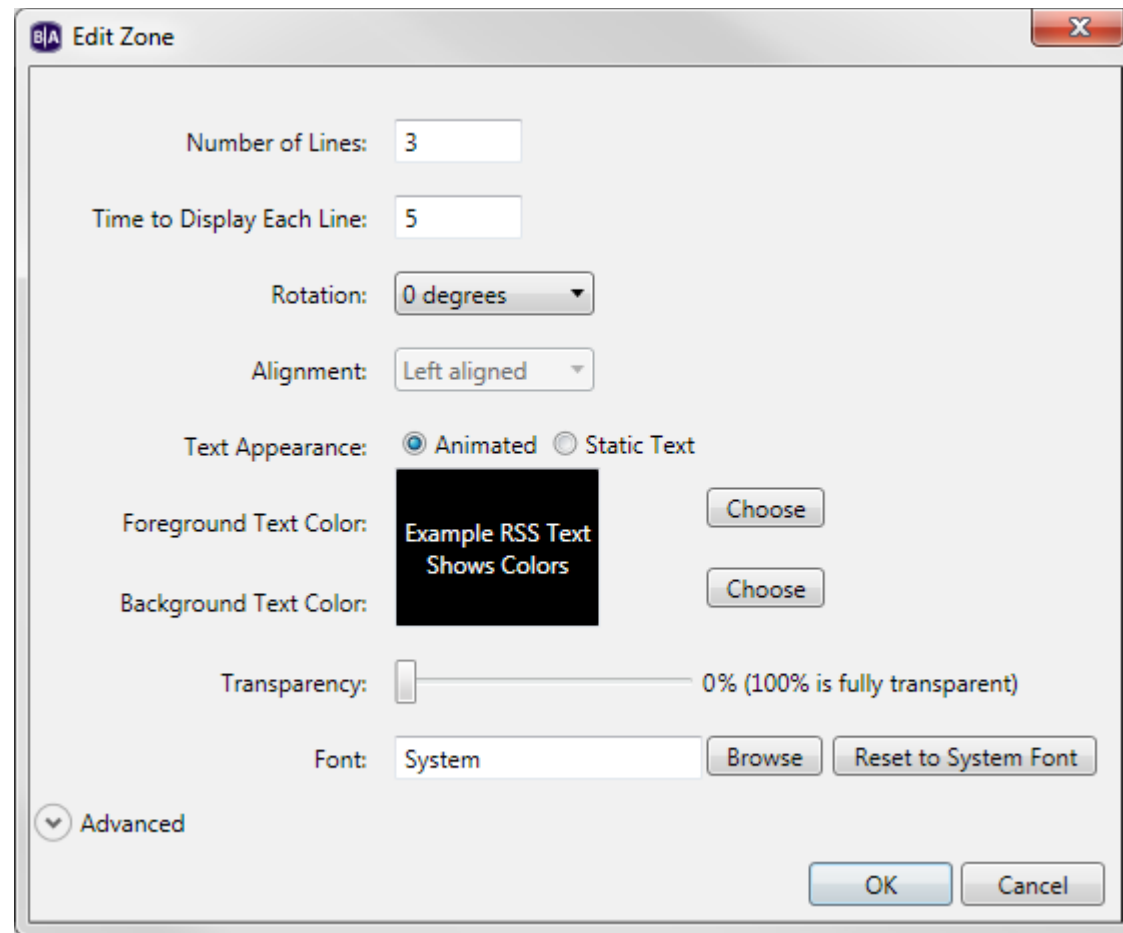
- **Transparency**: Set the transparency of the Background text color in Ticker or Clock zones.
- **Font**: Click **Browse** and set a font for text in Ticker or Clock zones. You can use any TrueType font. Click **Reset to System Font** to reset the font.

Advanced: Click the Advanced arrow to reveal the following options:

- **Background bitmap**: Click Browse to navigate to and select a file for a background image. Click **Yes** or **No** to determine whether you want to stretch the image to fill the zone. You can add a background bitmap to Ticker or Clock zones.
- **Safe text region**: Define the location (X,Y fields) and size (Width, Height fields) of the text region within the zone.

Editing Other Zones

The settings in the Edit Zone window correspond to the type of zone you have selected. Here is a list of all the settings you can edit for other types of zones:

- **Images zone**: Image mode.
- **Audio Only zone**: Audio settings, initial volume (audio)
- **Clock zone**: Rotation, foreground text color, background text color, transparency, font, background bitmap, and safe text region.
- **Background Image zone**: You cannot click **Zone Properties** for a Background Image zone. Choose a background image by selecting the Background Image Zone and dragging a file to the playlist area. If you only want a background color (instead of an image), do not add a Background Image zone. The background screen color can be changed in **the Presentation Properties** window. See Setting presentation properties for details.
5. Click **OK**.
6. Repeat steps 2 – 4 for each zone you want to edit in your presentation.

## Customizing Template Layouts

If the predefined zone template layouts do not meet your needs, you can create your own templates. Complete the following steps:

1. Create a presentation project by clicking **File** > **New Presentation** and select a template that is most similar to the layout you want to use.
2. Click **Layout** (below the **Edit** tab) and create a template by doing any of the following:
   - Change the position of a zone by clicking the zone and dragging it to the desired position. Alternatively, you

can enter the **Position** information in the left side of the screen. **X** corresponds to the position on a horizontal axis, and **Y** corresponds to the position on a vertical axis.

- Add a zone by clicking **Add zone**, typing a **Zone name**, selecting the **Zone type**, and then clicking **OK**.

- Make two or more zones the same size by pressing **Ctrl+Click** to select the zones you want to resize. On
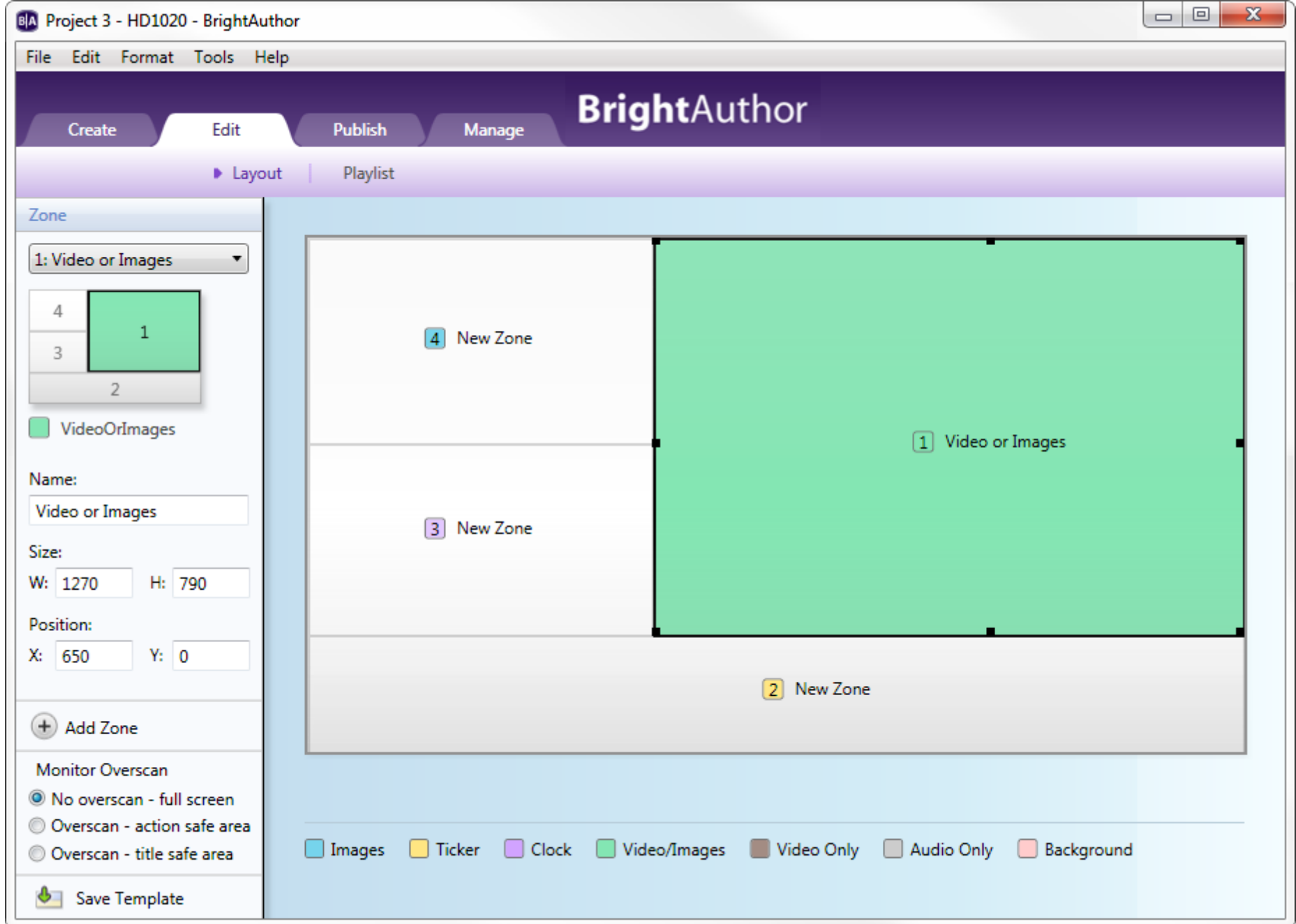
the menu bar, click **Format** > **Make same size** and select a resize option.

- Align two or more zones by pressing **Ctrl+Click** to select the zones you want to align. On the menu bar, click **Format** > **Align** and then select an alignment option.
- Center two or more zones by pressing **Ctrl+Click** to select the zones you want to center. On the menu bar, click **Format** > **Center in form** and then select **Horizontally** or **Vertically**.

Tip: *You can layer zones on top of each other. For example, you can place a Ticker or Clock zone on top of a Video Only zone, and then edit the transparency in the Ticker or Clock zone to control how much of the underlying video is visible.*

- Remove an unwanted zone by clicking it in the preview image and then pressing **Delete** on your keyboard.
- Rename a zone by clicking it in the preview image, and then typing in the **Name** text field on the left side of the screen.

Note: *The preview image is always displayed as a landscape. If your display is a portrait and you have selected this monitor orientation when creating the project, refer to the portrait image in the left side of the screen to see how your zones will appear to a viewer.*

3. Click **Save Template** (in the lower-left portion of the screen). Enter a name for the template, and then click **OK**.
4. To use a custom template in a new presentation, click the **View** dropdown list in the upper-right corner of the **Template** window. Select **User Defined Templates** to view your templates. Click a template and then click **Choose** to use it in the presentation.

Setting Presentation Properties

You can edit properties that apply to an entire presentation. These are based on your current default property settings. To change the default settings, see Setting default properties.

To edit presentation properties, complete the following steps: Open a presentation project by clicking **File** > **Open Presentation**; on the menu bar, click **File** > **Presentation Properties**.

Main

Set any of the following:

- **Connector type**: Use the dropdown list to indicate the type of connector you are using for your display (HDMI, VGA, or Component).
- **Screen resolution**: Use the dropdown list to set a resolution supported by your display.
- **RSS update frequency**: Use the dropdown list to set how often you want the BrightSign to check for RSS feed updates.
- **Background screen color**: Click **Choose** to select a background color that appears behind your zones.
- **Language**: Use the dropdown list to select a language for your presentation.

I/O

Click **Input** or **Output** next to each GPIO port to indicate whether the port is sending or receiving information.
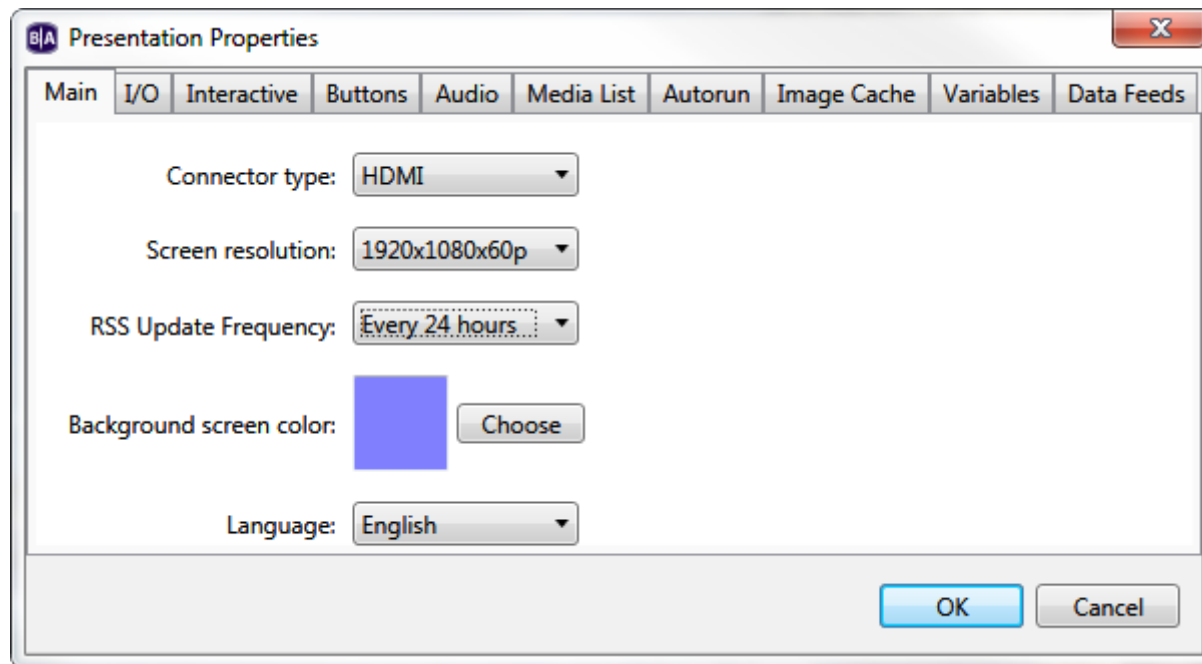
Interactive

Set any of the following:
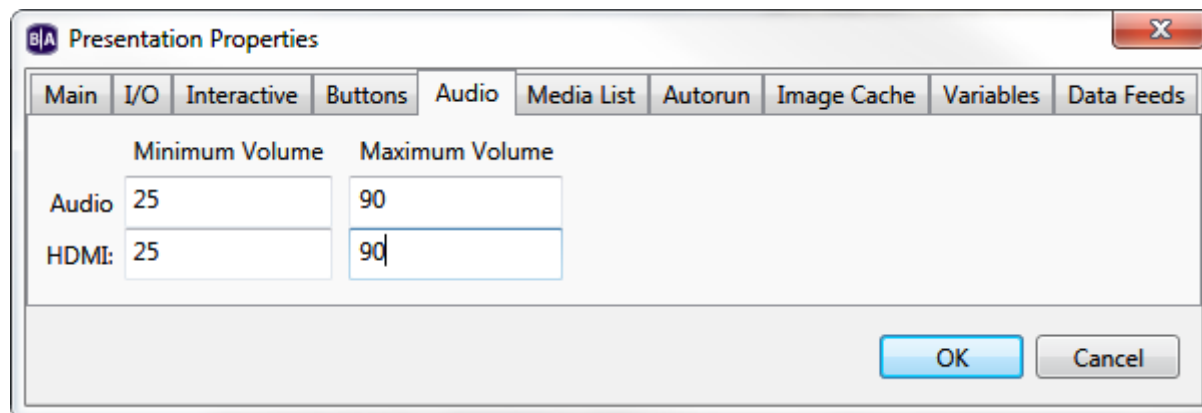
- **Serial**: For each serial port: Port (number), Baud rate, Data bits, Parity, and Stop bits. Toggle between Binary and ASCII mode (Protocol), and set EOL characters (CR, LF, LF + CR) for Send and Receive EOL. Check the **Invert Signals** checkbox to invert the send pin and receive pin of the serial port.
  Note: *the standard part is port 0 and the 5V TTL port is port 1.*
- **UDP**: Set the **UDP Destination Address** (type below **Specific IP Address** in dotted quad form, or click **All devices on the local subnet**), the **UDP Destination Port**, and the **UDP Receiver Port**.
- **Touch**: Select a cursor option to set whether the cursor is always hidden, always visible, or present only if there is more than one touch region on the screen (auto display cursor). Check the **Flip coordinates** checkbox to reverse the coordinates of the check screen. Use this option only if the touch screen coordinates appear to be reversed.

Buttons

Use the dropdown list to select the type of button panel you wish to configure. Click **Automatically configure which buttons are enabled** or **Specify which buttons are enabled** and check the boxes to manually enable buttons. Repeat for each button panel you plan to connect to the player.

Audio

Set any of the following:

- Set the **Minimum Volume** and **Maximum Volume** for the **Audio** output (0 – 100).
- Set the **Minimum Volume** and **Maximum Volume** for the **HDMI** audio output (0 – 100).

Media List

Set any of the following:

- **Return to start after inactivity**: Check the **Yes** box to set Media Lists to return to the start of the list after a designated period of inactivity.
- **Inactivity timeout (seconds)**: If you checked **Yes** above, type a number in the text field to specify the period of inactivity before Media Lists restart.

Autorun

Click **Standard Autorun** or **Select custom Autorun** to specify a different autorun file for the presentation. Click **Browse** to locate and select the autorun file.
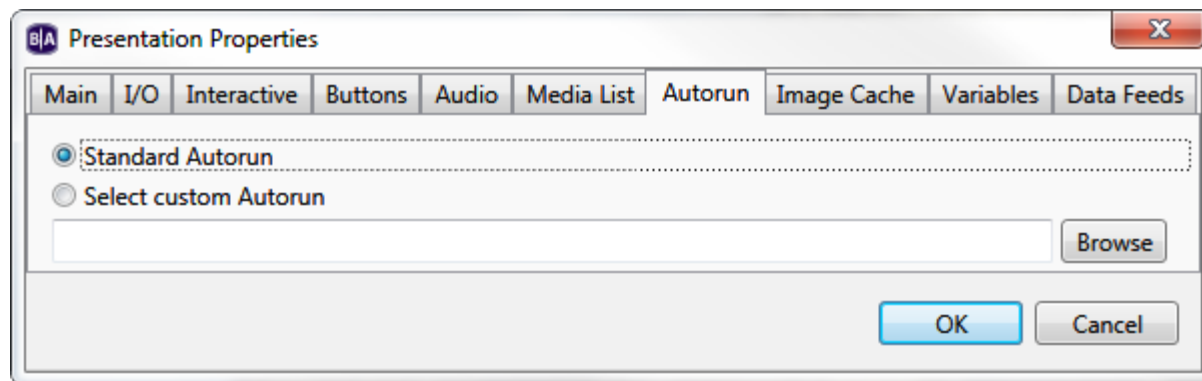
Image Cache

A list of all media files in your playlist is displayed here. Check the boxes to store certain files in an image cache for faster loading.
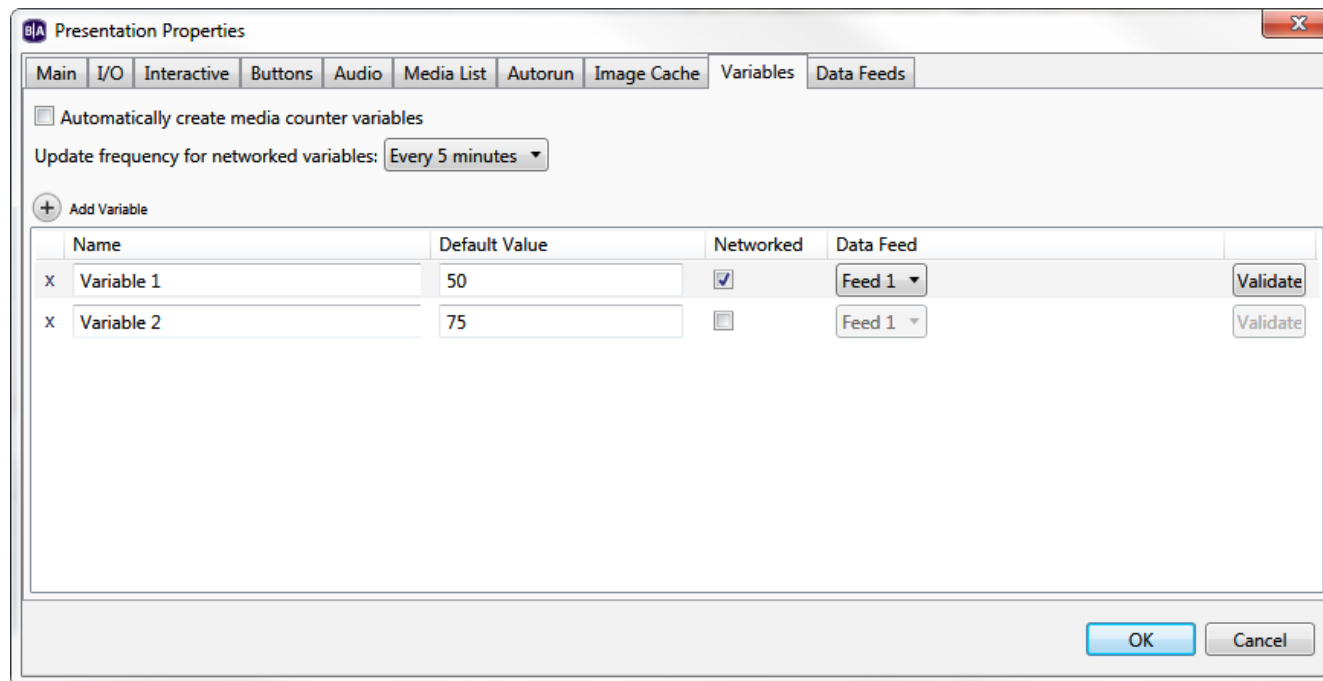
Variables

Use this tab to create User Variables and enable Media Counters.

- **Media Counter**: A value that records how many times a file in the presentation has played. They can be viewed in Live Text or extracted from the BrightSign via USB. Media Counters are not recorded unless you check the **Automatically create media counter variables** checkbox in the Variables tab. When enabled, Media Counters are recorded for every file in the presentation. However, in Live Text, only Media Counters that are individually added can be viewed. For details on retrieving all Media Counters via USB, see Using advanced tools.

- **User Variable**: A customizable value that can be used in commands or displayed in Live Text. When used in Live Text, User Variables display the current value of the variable. This value can continually change during a presentation. The value of a User Variable can be changed during a presentation by using the **Set Variable** or **Reset Variable** commands.

  User Variables can be used in the following commands: Set Volume, Increment Volume, Decrement Volume, Send UDP, Serial-send string (EOL), Serial-send string (no EOL), Serial-send byte, Serial-send bytes (comma separated), Synchronize, Send Zone Message, Link Zones, GPIO On, GPIO Off, GPIO Set State, BrightControl – Send Ascii String, BrightControl – Philips Set Volume, Pause.

  For example, if you add a Set Volume command to your presentation and use a static value like 50, the volume will always be set to 50 when the command occurs. If you use a User Variable instead, the volume will be set to the current value of the variable, which could be any number of values based on your Set Variable commands and when the User Variable is used.

  To utilize a User Variable in a command, add the desired command as you normally would. See Adding Commands for details. In the Parameters field, type the exact name of the variable in between two dollar signs on each side (e.g. "$$variable1$$"). BrightAuthor will not recognize the variable without these dollar signs.

To create a User Variable, click the **Add Variable** button in the **Variables** tab.
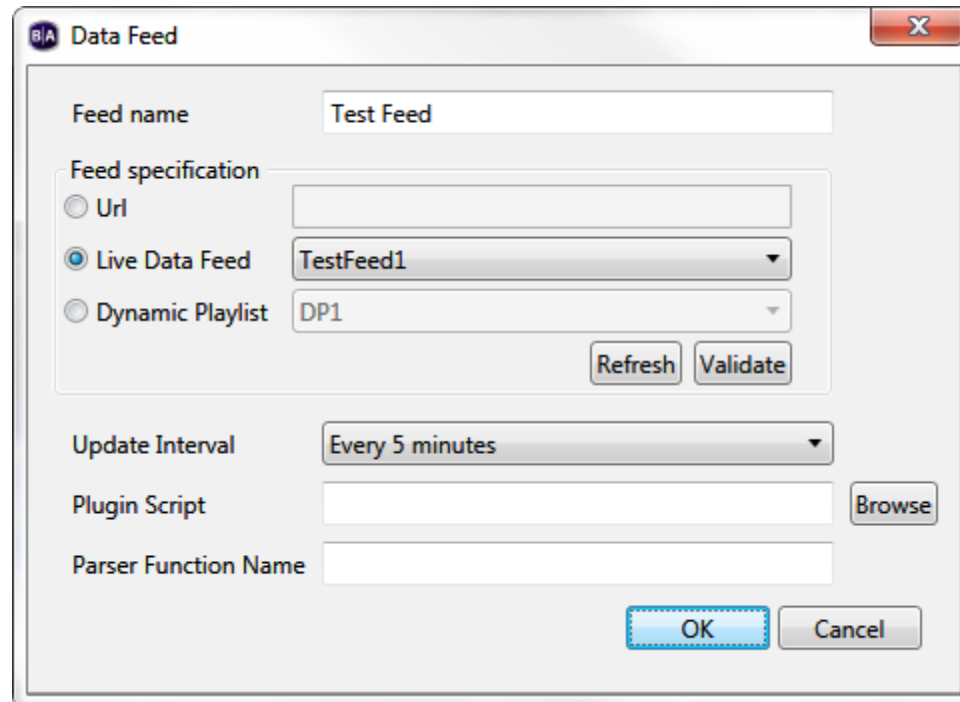
- **Name**: Enter a unique name for the User Variable.
- **Default Value**: This is the value of the User Variable if it is not modified. Whenever a User Variable is reset (via the Reset Variable command), it will return to this default value.
- **Networked**: Check this box if you would like the User Variable to be updatable via a Data Feed.
- **Data Feed**: Select the data feed that contains your User Variable information. Every RSS entry has `<title>` and `<description>` tags: use the `<title>` tag to designate the name of the User Variable being modified; use the `<description>` tag to change the value of the User Variable.

Note: *The BrightSign Network provides a simple way to create and host RSS text feeds. In the BrightSign Network Web UI, use the* **Title** *field to designate the name of the User Variable and the* **Value** *field to change the value of the User Variable.*

To delete a User Variable, click the **X** beside the appropriate variable.

Data Feeds

Create and edit data feeds, which you can use when creating Live Text elements, RSS content, and networked User Variables. Click **Add Live Data Feed** to bring up the feed-creation window:

- **Feed Name**: Give the data feed a name. You will be able to locate the data feed by this name when you are creating a Live Text element, specifying an RSS feed, or creating Networked User Variables.
- **Url**: Paste the web address of the RSS feed into this field.
- **Live Data Feed**: If you have a BrightSign Network subscription, you can easily publish RSS feeds to the BrightSign Network servers. See the Live Text FAQ for instructions on creating RSS feeds in the BrightSign Network Web UI and using them in BrightAuthor.
- **Dynamic Playlist**: If you have a BrightSign Network subscription, you can use Dynamic Playlists as Data Feeds.
- **Refresh**: If you have recently created or renamed Dynamic Playlists or Live Text feeds using the BrightSign Network, click this button to update the content in the **Live Data Feed** and **Dynamic Playlist** dropdown lists

- **Validate**: Click this button to ping the web address you entered in the **Url**, **Live Data Feed**, or **Dynamic Playlist** field. Use this feature to check whether you entered the address of your RSS feed correctly.
- **Update Interval**: Use the dropdown list to specify how often you want the content of an RSS feed to be refreshed using the provided URL.
- **Plugin Script**: This is an advanced feature: You may optionally choose to have the RSS feed parsed by a piece of customized BrightScript code. This occurs after the feed is retrieved from the network and before it is provided to the Live Text object. To add a plugin, specify the location of the file that contains the BrightScript code by clicking the **Browse** button.
  Note: *The parser file must have a* .brs *extension.*
- **Parser Function Name**: Enter the name of the subroutine that parses the RSS feed. The following parameters can be used with the subroutine:
  - `xmlFileName$` — The name of the xml file. This information is provided by the autorun.
  - `itemsByIndex` — An array of the descriptions. The script should fill in this array if the Live Text object is using the "item index" to display items from this feed.
  - `itemsByTitle` —An associative array of titles and descriptions. The script should fill in this array if the Live Text object is using the "item title" to display items from this feed.
  - `userVariables` — An associative array of current User Variables (which are provided by autorun). This is provided in case you want to analyze or modify the User Variables.

The following piece of example code can be used to parse RSS text:

```
Sub ParseTedFeed(xmlFileName$ as String, itemsByIndex as object,
itemsByTitle as Object, userVariables As Object)

    xml = CreateObject("roXMLElement")
    if not xml.Parse(ReadAsciiFile(xmlFileName$)) then
        print "xml read failed"
    else
        if type(xml.channel.item) = "roXMLList" then
            index% = 0
            for each itemXML in xml.channel.item
                itemsByIndex.push(stri(index%) + " - " +
itemXML.description.GetText())
                index% = index% + 1
            next
        endif
    endif

end Sub
```

Editing Preferences

Whenever you create a new project, the presentation settings are based on the default settings. If you often use the same set of properties, you can save time by changing the default property settings to what you use most often. Keep in mind that changing the default settings does not adjust the current project. Changes will only apply to new presentations. To edit default settings, complete the following steps:

1. Navigate to **Edit** > **Preferences** on the menu bar.
2. Click the **Video** tab and set the following video settings:
   - **Volume**: Specify a value between 0 and 100.
   - **Live video – time on screen**: Set a default period for live videos to remain on screen (in seconds).
3. Click the **Images** tab and set the following:
   - **Slide transition**: Use the dropdown list to set an effect for image transitions.

- **Slide delay interval**: Set how long each image displays (in seconds).
4. Click the **Interactive** tab and set a default timeout period for media files (in seconds).
5. Click the **Clock** tab and use the dropdown list to set a language and utilize its predefined date and time format. To customize the format, click **Customize**, enter your desired date and time format, and then click **OK**.
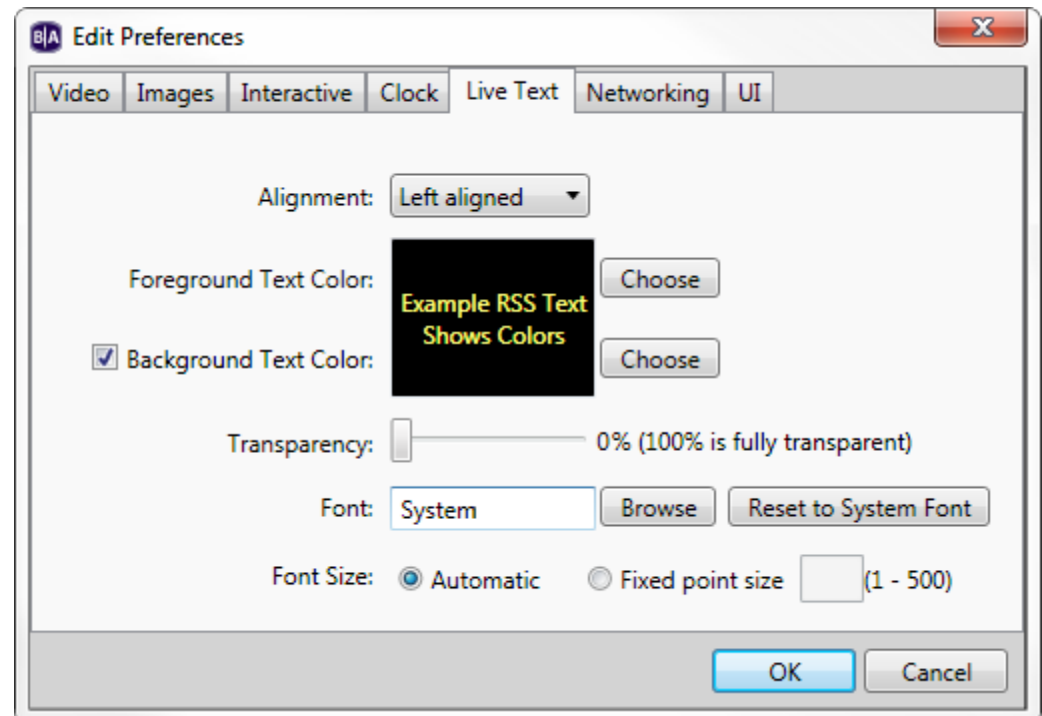6. Click the **Live Text** tab and set the following:
    - **Alignment**: Use the dropdown list to set whether Live Text is left aligned, right aligned, or centered.
    - **Foreground text color**: Click **Choose** and select a color for Live Text (the letters).
    - **Background text color**: Use the checkbox to determine whether you want to include a background text color for text fields. Click **Choose** and set a default color for the backgrounds.
    - **Transparency**: Drag the bar to set the transparency for background text colors.
    Note: *Transparency does not appear in the Live Text image preview. You will need to publish the presentation to a BrightSign player to view the level of transparency.*
    - **Font**: Click **Browse** and set a font for Live Text. You can use any TrueType font. Click **Reset to System Font** to reset the font.
    - **Font size**: Click **Automatic** or **Fixed point size** to enter a value for Live Text font size (1-500).
    Note: *Changes to the default text preferences apply only to Live Text states created after presentation preferences are saved; these changes are not applied to preexisting Live Text states.*
7. Click the **Networking** tab and check the boxes to enable/disable the following: BrightSign Network, Local Networking, Bonjour, and Simple File Networking.

Note: *If you are publishing with Local Networking but are not seeing your BrightSign players on the network, disabling Bonjour can help.*

8. Click the **UI** tab and set the following:

- **Publishing**: Check the boxes to indicate whether you want to **Show file overwrite dialog** and/or **Copy and replace duplicate files when publishing locally**.
- **Save properties**: Check the box to choose to **Show save properties dialog**.
- **Transitions**: Set the display mode for transitions in your interactive playlist. You can select **Automatic**, **Always display line**, or **Always display label**. You can set whether you want labels to be on the **Right** or **Bottom** of files in your playlist area.

9. Click **OK**.

CHAPTER 10 – MANAGING YOUR NETWORK

You can use BrightAuthor to manage your BrightSign Network and local networks.

Permissions

Administrators of BrightSign Network accounts can create separate accounts with access to their BrightSign Networks. These accounts (called User Accounts) can be assigned to roles with various sets of permissions in both the BrightSign Network WebUI and in BrightAuthor.

Access to the BrightSign Network features in BrightAuthor will depend on permissions that were determined by the Account Administrator. Regardless of permissions, BrightAuthor appears the same to all users. However, attempting to use blocked features will result in an error message. If you are an Account Administrator, you must use the web UI to change a User Account's permissions in BrightAuthor.

Viewing Unit Statuses

You can view the status of all units on your BrightSign Network or Local Network in BrightAuthor. A range of colors (green, yellow, red) are used to indicate the status of a BrightSign player. Please see this help article for more information on what each color means.

Local Network – Viewing unit status on your Local Network lets you view all units and their info, view active presentations for units, specify a username and password for units, and remove units from the network.
1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.
3. Click **Local Network** (below the **Manage** tab). Here, a list of all units on the Local Network is displayed. The list contains all unit names, descriptions, uptimes, and current active presentations.

4. Right-click a unit to **Remove the unit**, **Show all units**, **Specify a username and password**, or view **Info**. Clicking

Info opens the **Unit Properties** window. Here, you can view the unit ID, IP address, BrightSign model, firmware version, and autorun version.

BrightSign Network – You can view the activity status of all units in your BrightSign Network, the groups to which units are assigned, the scheduled presentations for each group, the last connection time for each unit, and the frequency with which each unit connects to the network.

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.
3. Click **Status** (below the **Manage** tab).
4. Click the arrow beside a group to view details: the devices in a group, their activity status, etc.
5. Right-click a device in a group to **Edit**, **Delete**, access **Info**, or check the **Download progress**.
6. (Optional) Sort the list by clicking the column you want to use as the sorting criteria. For example, to sort by status, click the **Status** column. Click again to switch between ascending and descending order.
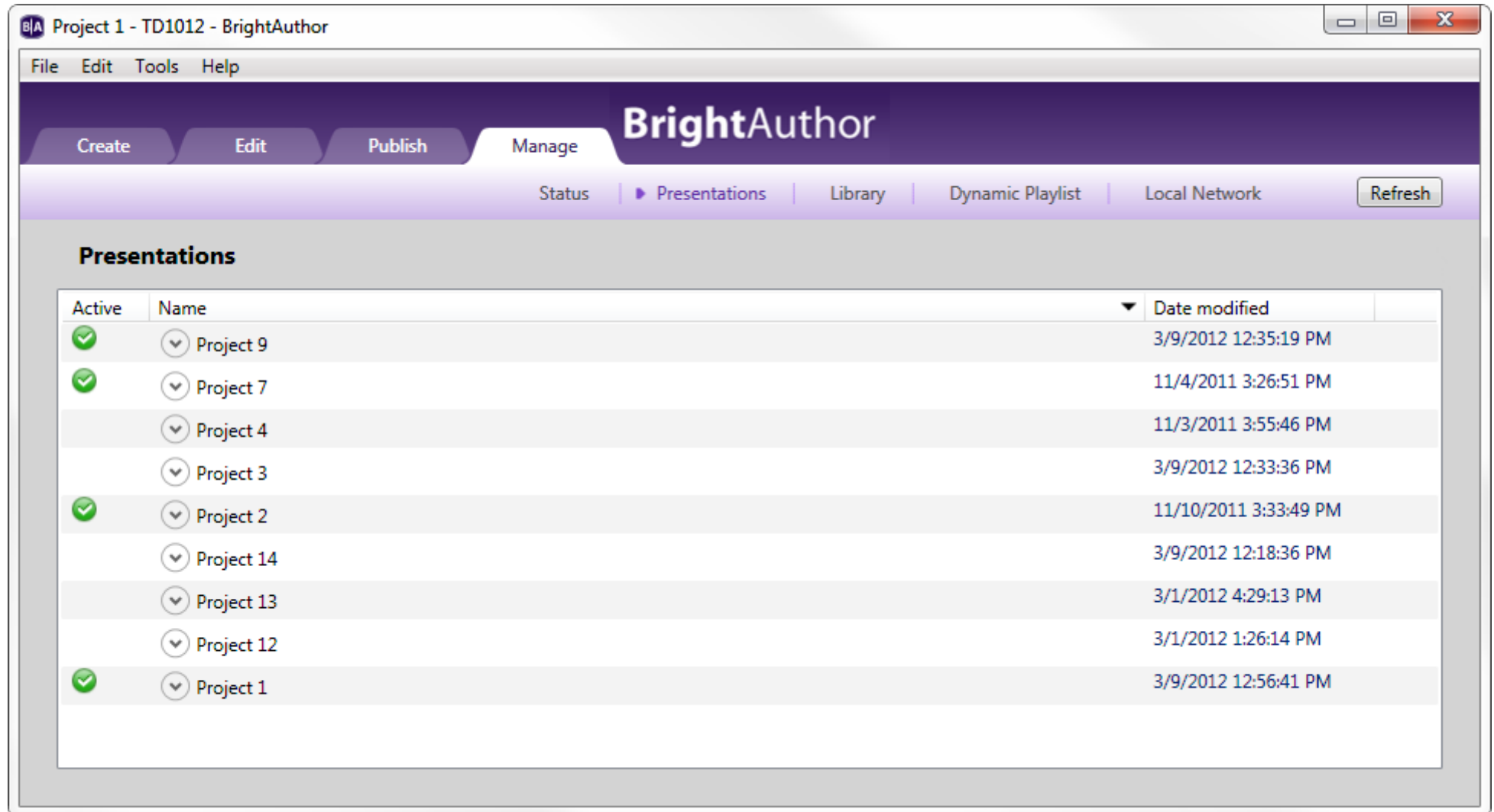
Managing Groups

You can use Groups to distribute presentations to a specific set of BrightSign players. Publishing a presentation to a group delivers it to all BrightSign players within that group. BrightAuthor includes two default groups: Default and LocalTest. However, you can create as many groups as you need.

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.
3. Click **Status** (below the **Manage** tab).
4. Do any of the following:

   - To create a group, click **Add Groups** (in the lower-left corner of the screen). Type a name for the group, and then click **OK**.
   - To delete a group, right-click a group, and then click **Delete**.
   - To move a device to a different group, click the arrow for the group that contains the device. Then click the device and drag it to the desired new group.

Viewing Presentations

The **Presentations** tab allows you to see all presentations uploaded to the network, as well as which groups the presentations belong to, which presentations are active, and when they were last modified.

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.

3. Click **Presentations** (below the **Manage** tab).
4. Click the arrow beside a presentation to view which groups are currently using the presentation.
5. (Optional) Sort the list of presentations by clicking the column you want to use as the sort criteria. For example, to sort by name, click the **Name** column. Click again to switch between ascending and descending order.

Viewing your Library

Viewing your library lets you see all the content you've uploaded to your BrightSign Network.

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.
3. Click **Library** (below the **Manage** tab). Here, all files uploaded to the network are displayed. Files with a green check mark are currently active. Do any of the following:

    - Switch between thumbnail and list view: Click the icons in the upper-right portion of the screen.
    - View item info: Right-click an item and click **Info**. Here you can view file size, type, date modified, date uploaded, all presentations using the file, and all Dynamic Playlists using the file.
    - Delete an item: Right-click a file and click **Delete**. Keep in mind that you can only delete files that aren't currently active.
    - Refresh the library: Click **Refresh** in the upper-right portion of the screen.

Viewing Dynamic Playlists

You can view all Dynamic Playlists, the presentations that contain Dynamic Playlists, and the time/date when playlists were last modified.

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.
2. Click the **Manage** tab.
3. Click **Dynamic Playlist** (below the **Manage** tab). Here, a list of all dynamic playlists is displayed. Playlists with a green checkmark are currently part of a presentation. Do any of the following:

    - Delete a playlist: Right-click a dynamic playlist and then click **Delete** to erase it.

- View info: Right-click a dynamic playlist and then click **Info** to see when the dynamic playlist was last modified and a list of all presentations that contain the dynamic playlist.
- Sort the list: You can adjust the list of dynamic playlists by clicking the column you want to use as the sort
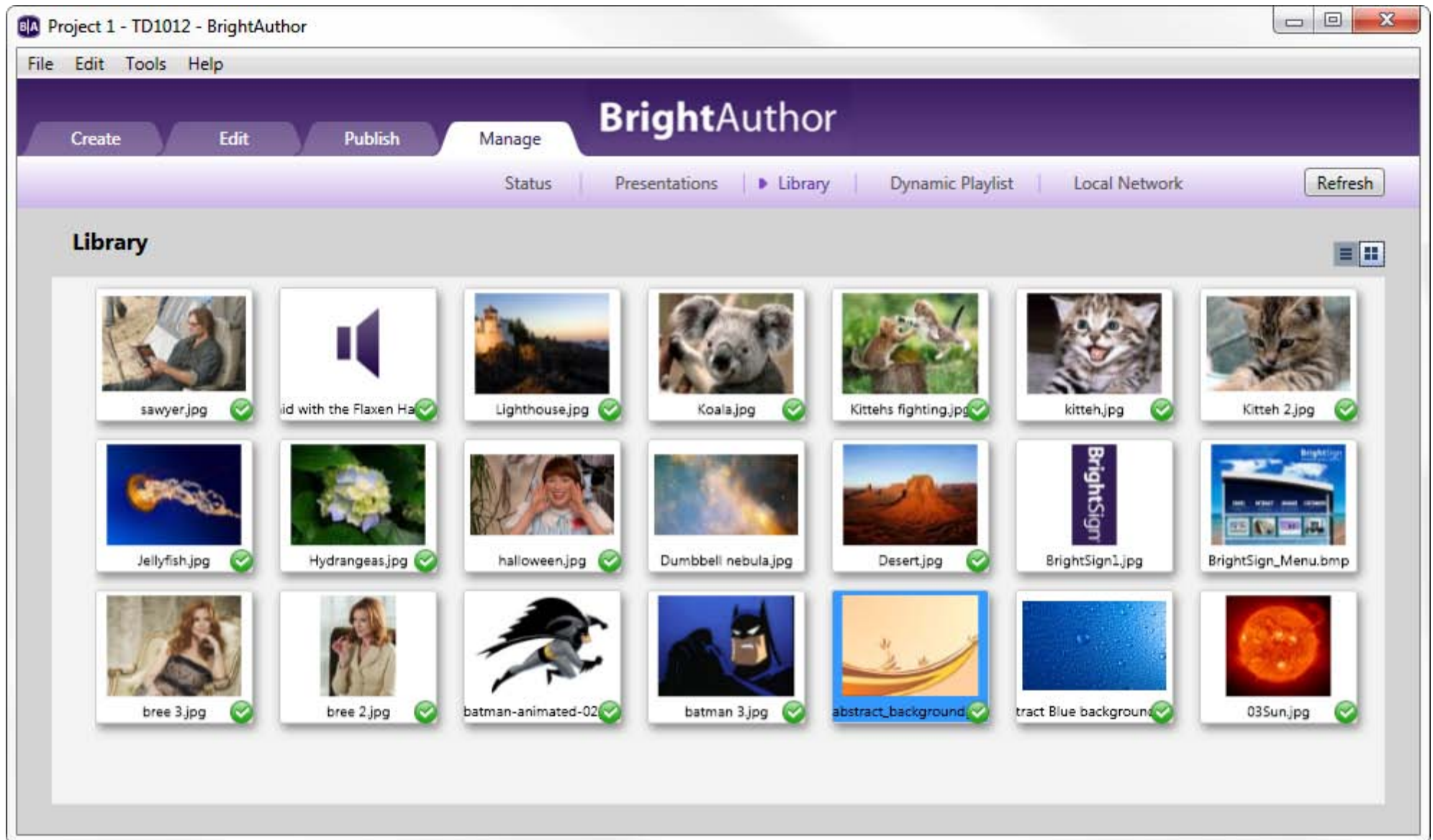
criteria. For example, to sort by name, click the name column. Click again to switch between ascending and descending order.

Using Advanced Tools

Advanced tools let you remotely control units on your BrightSign Network or set up a USB flash drive to retrieve device data and perform device actions. After you set up a USB flash drive, inserting it in a BrightSign player will extract the specified data or perform the specified actions (e.g. reboot the player). The **Advanced Tools** window is divided into three tabs: the **Setup USB Drive** tab, as well as the **Update Autorun** and **Unit Control** tabs, which are only available if you have a BrightSign Network account.

Complete the following steps to set up a USB flash drive:

1. Click **Tools** > **Advanced**.
2. Click the **Setup USB Drive** tab. The following checkboxes determine what actions you want to occur when the USB flash drive is inserted into the player:
   - **Copy variables database**: Extracts the data for all User Variables and Media Counters.
   - **Copy log files**: Extracts all log files.
   - **Delete log files**: Deletes all log files on the BrightSign player.
   - **Reset Variables**: Resets all User Variables to their default values.
   - **Reboot**: Reboots the BrightSign player.
   - **Display status on screen during data capture**: Displays the status on the display while the USB flash drive is inside the BrightSign player.
3. Click **Setup drive** and navigate to the location of the USB flash drive on your computer.
4. When the **Setup Complete** window opens, click **OK**.
5. Remove the USB flash drive from your computer and insert it in the player.
6. If you are extracting data from the player, reinsert the USB flash drive into your computer to retrieve the data.
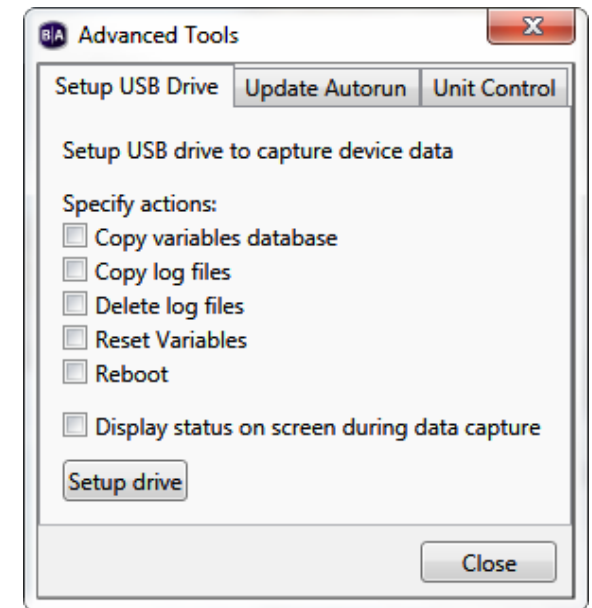
Complete the following steps to control players linked to your BrightSign Network account:

1. Sign in to BrightSign Network by clicking **Tools** > **Sign in to BrightSign Network**.

2. Click **Tools** > **Advanced**.

3. Click the **Update Autorun** tab. A list of all your groups is displayed here. Check the checkboxes and then click **Update now** to update the Autorun version for those groups.

4. Click the **Unit Control** tab.

5. In the **Serial Number** field, type the serial number of the unit you want to control.

6. Click the **Action** dropdown list to select the action you want to perform:

   - **Reboot unit**: Restarts the BrightSign.
   - **Upload logs**: Uploads log files based on the upload logs setting you selected when setting up the unit.
   - **Recover – reformat**: Puts the unit in recovery mode and reformats the unit's storage card.
   - **Recover – don't reformat**: Puts the unit in recovery mode and downloads the latest Autorun script to the storage card without reformatting it.

7. (Optional) Click **Add action** to add another action, or remove an action by clicking **Remove action**.

8. Click **Close**.
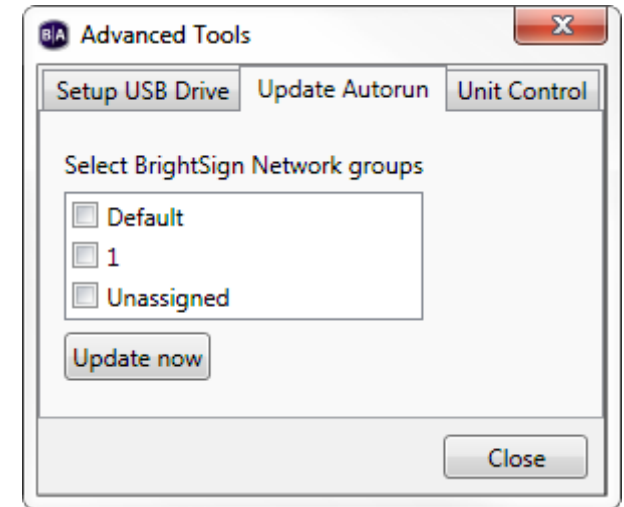
CHAPTER 11 – FREQUENTLY ASKED QUESTIONS

For additional Frequently Asked Questions, go to http://support.brightsign.biz/forums.

Can I use BrightAuthor with the HD600 or HD2000?

No. Currently, BrightAuthor only supports the following BrightSign players: HD110, HD120, HD210, HD210w, HD220, HD410, HD810, HD1010, HD1010w, HD1020, and TD1012.

Can I open the autoplay.xml file using BrightAuthor?

No. The autoplay.xml file that is generated when you publish a presentation is a playlist file. This file includes only the information required for playback on a BrightSign player. It is not the same as a presentation project file.

How do I use a different font?

To use a different font, browse to a folder on your computer that has a true type font (e.g. in a Ticker zone, click **Zone Properties**, and then click **Browse** beside font). This font will be copied to the SD card when you publish the presentation. You can use your own custom fonts or download free TrueType fonts from the web.

Can I export a template?

Yes. Although there isn't a template export option, you can save a presentation project with the desired template layout, and then transfer it to another computer. You can then open the project in BrightAuthor, and then save the template (**Layout** > **Save Template**).

Can I use the scheduling feature on the HD110 or HD410?

All units manufactured and purchased since November 2010 have a real time clock that supports scheduling. Older HD110 and HD410 models do not support scheduling.

Why does BrightAuthor take a long time to process my folder?

If the folder you selected has a large number of images and videos, the Media Library may take a few minutes to update. Please be patient.

Why can't BrightAuthor locate my files when I try to publish my presentation?

If you copy a presentation project from one computer to another, or move or rename files used in a BrightAuthor project, BrightAuthor cannot locate the files, and you will receive an error message when you try to publish. To resolve the error, you must remove the files from each zone's playlist in the presentation and then add them again.

Why are some of my videos missing thumbnails in the Files tab?

The thumbnails are generated by codecs installed on your computer. You can download codecs to resolve the problem. For example, if you're missing thumbnails for your transport streams, you can try downloading a codec such as K-Lite.

What do I do if BrightAuthor crashes while I'm using it?

For any errors or crashes you encounter while using BrightAuthor, please post a description of the problem in the forums (http://support.brightsign.biz/forums) or send us an email at support@brightsign.biz and include the following information:

- Steps to duplicate the problem (or indicate that you can't duplicate it)
- Any error dialogs you saw, including text in the dialog
- The contents of your event log right after the crash. You can find the log in this folder: C:\Users\Owner\AppData\Local\BrightSign\BrightAuthor\
  - Look for a subfolder named after the BrightAuthor version number, such as 2.4.0.
- A copy of the presentation project where you experienced the problem

APPENDIX A – REMOTE CONTROL PROTOCOLS

Complete the following steps to set up your BrightSign player to communicate with a remote control:

Create an interactive presentation (see [Making a presentation interactive](#)).

1. Define an interactive event with the **Remote Input** event.

2. In the Remote Input Event window, specify the remote input with any of the following remote control codes:

   WEST

   EAST

   NORTH

   SOUTH

   SEL

   EXIT

   PWR

   MENU

   SEARCH

   PLAY

   FF

   RW

   PAUSE

   ADD

   SHUFFLE

   REPEAT

   VOLUP

   VOLDWN

   BRIGHT

3. Repeat the above steps for each remote input you want to define.

CHANGE LOG

Version 3.5

April 11, 2013

- Revised **Chapter 2 > Setting up a Player for Standalone Use Chapter 8 > Publishing with Local Storage** to include information about publishing with USB drives and using password protection for these content updates.
- Added additional information about using Portrait Orientation to **Chapter 3 > Creating a Full-Screen Presentation**.
- Revised the explanation in **Chapter 4 > Event Handlers** to include new Stop Playback functionality.
- Added a note to **Capter 5 > Ticker Zones** explaining how to use alignment settings with right-to-left languages.