

DigiSign (CMS) Software

User Manual

**DigiSign CMS Software for Signage Players
(500789-V2, 500799-MXT, 500799-MXC and 500890)**

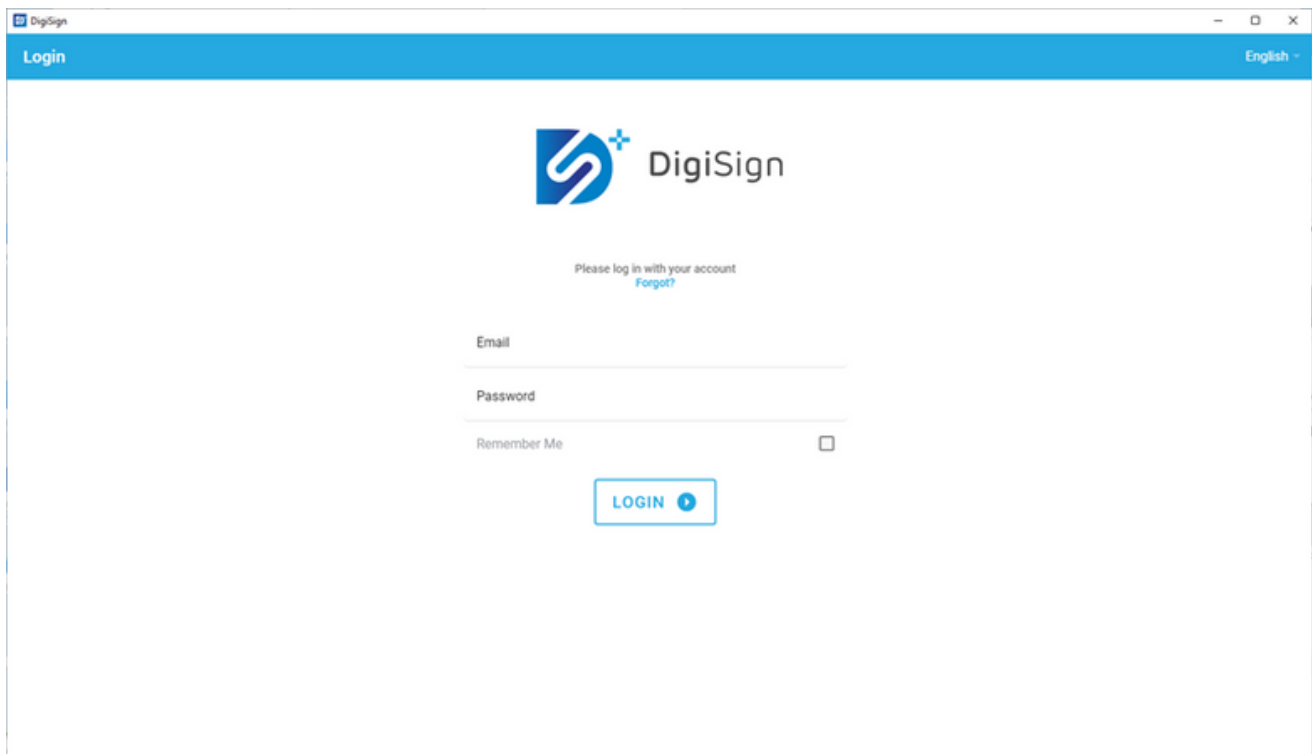
A screenshot of the DigiSign login interface within a web browser window. The browser's title bar shows "DigiSign". The page has a blue header with "Login" on the left and "English" on the right. The main content area is white and features the DigiSign logo (a blue square with a white stylized 'S' and a plus sign) and the text "DigiSign". Below the logo, it says "Please log in with your account" with a blue link "Forgot?". There are input fields for "Email" and "Password". Below the password field is a "Remember Me" checkbox. At the bottom is a blue "LOGIN" button with a right-pointing arrow.

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1. Safety Precautions

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for future reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock, and injury.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burns.
- Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Using supplies or parts not meeting the product specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- Install the device in a place with adequate ventilation to avoid damage caused by overheating.
- Unplug the power when left unused for a long period of time.
- Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

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2. Introduction

The DigiSign Software is a CMS (Content Management System) Software that works with the DigiSign Signage Player (models 500789-V2, 500799-MXT, 500799-MXC and 500890) and allows users to easily create, arrange, manage, and schedule Video, Images, Audio, and HTML content from a variety of sources, including content streaming via an H.264/H.265 codec over a local Ethernet network, the Internet, and internal memory. The system supports numerous widgets including RSS Feeds, Instagram Feeds, Text Tickers, Clocks, Stocks, Exchanges, Weather Info, Maps, to name a few. The system supports Multiview layouts, including Picture-In-Picture (PIP), a Keyword Dictionary, Proof of Play, Interactive Mode and the ability to create a schedule of up to 1 year or more of content in advance. The user can then publish the signage content and schedule to the DigiSign 4K Signage Players distributed throughout your network and displayed on the connected TVs.

The DigiSign Software makes this process quick and easy with a powerful and intuitive workflow, that allows even a novice to be up and running in no time. This manual takes you through the steps of creating and managing your signage content via the DigiSign Software and the distributed DigiSign 4K Signage Players.

3. Using the DigiSign Software

This section describes the basic workflow to create, arrange, manage, schedule, and publish Digital Signage content.

The typical workflow consists of the following steps:

1. Download and Install DigiSign (CMS) Software
2. Adding your First New User Account (as needed)
3. Login to DigiSign Software
4. Creating and Managing Signage Players and Player Groups
5. Creating and Arranging Slide Content
6. Creating and Managing Schedules and Publishing Content to the Signage Players

3.1 Download and Install DigiSign (CMS) Software

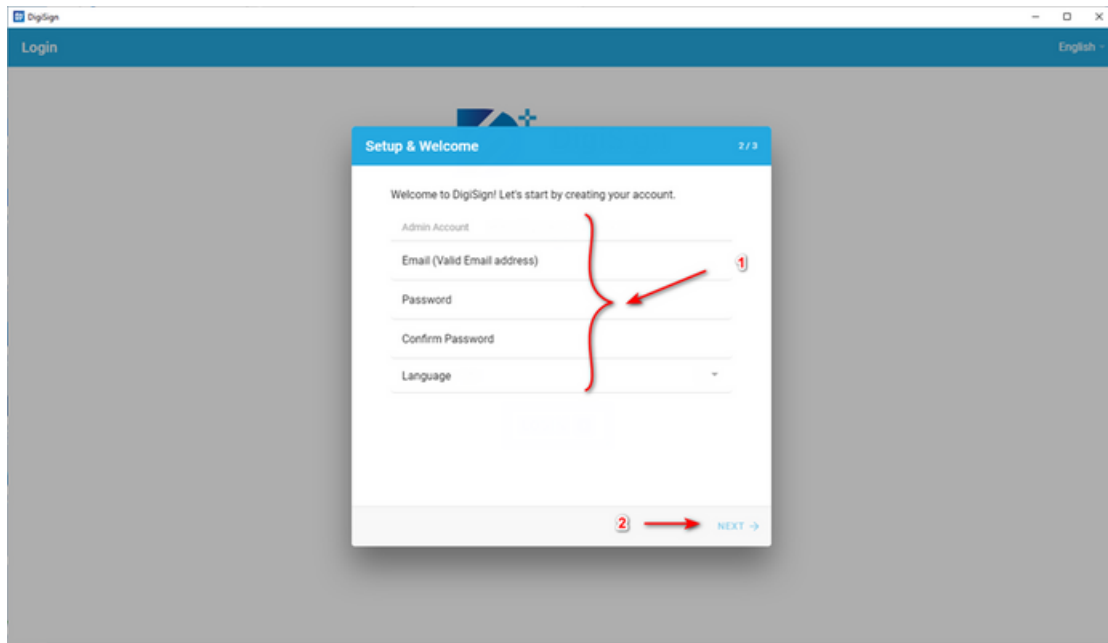
The User can download the DigiSign software free of charge directly from the MuxLab website from the following link: <https://muxlab.com/digisign>

3.2 Adding your First New User Account

If this is the first time you are running DigiSign Software, a new user should be created, see figure below.

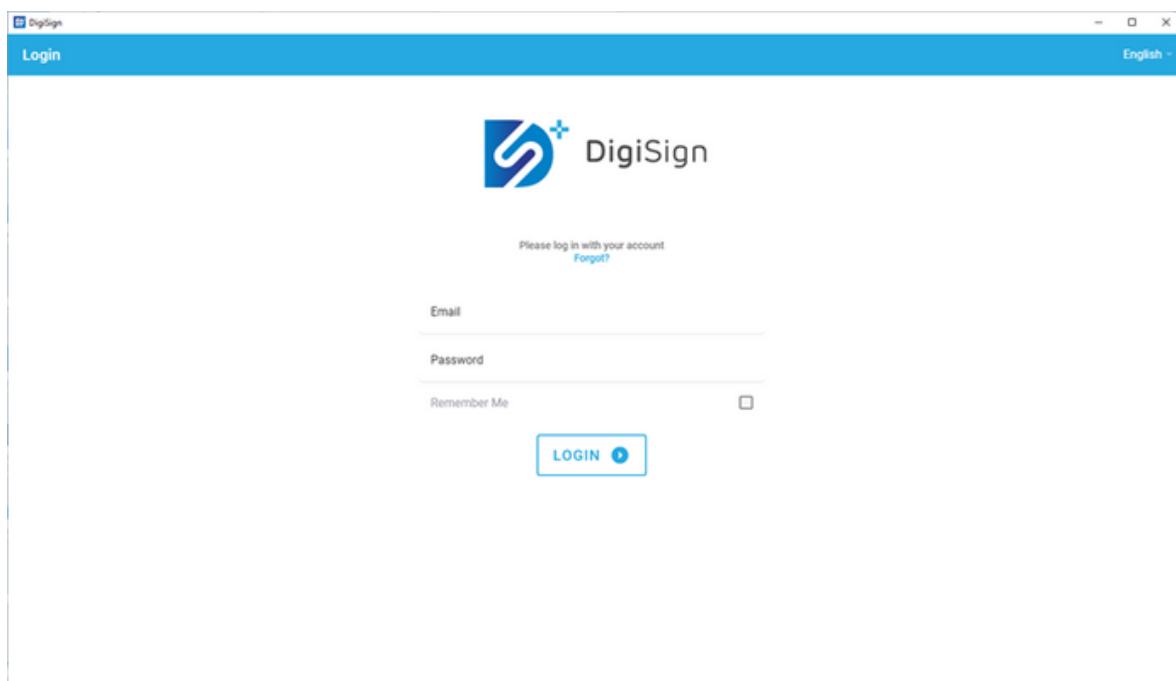
To create a new user, following these steps:

1. Enter your email address and password. Then enter your password again.
2. Record your password in a safe place and then click on:
"I copied the password to a safe place"
3. Press the "NEXT" button, and then press the "DONE" button on the following page.



3.3 Login to DigiSign Software

Any user with an account can login by entering the user email address and password, and then clicking the "LOGIN" button, as shown in the figure below. If you forgot your password, press on "Forgot?" and follow the on screen instructions.



3.4 Creating and Managing Signage Players and Player Groups

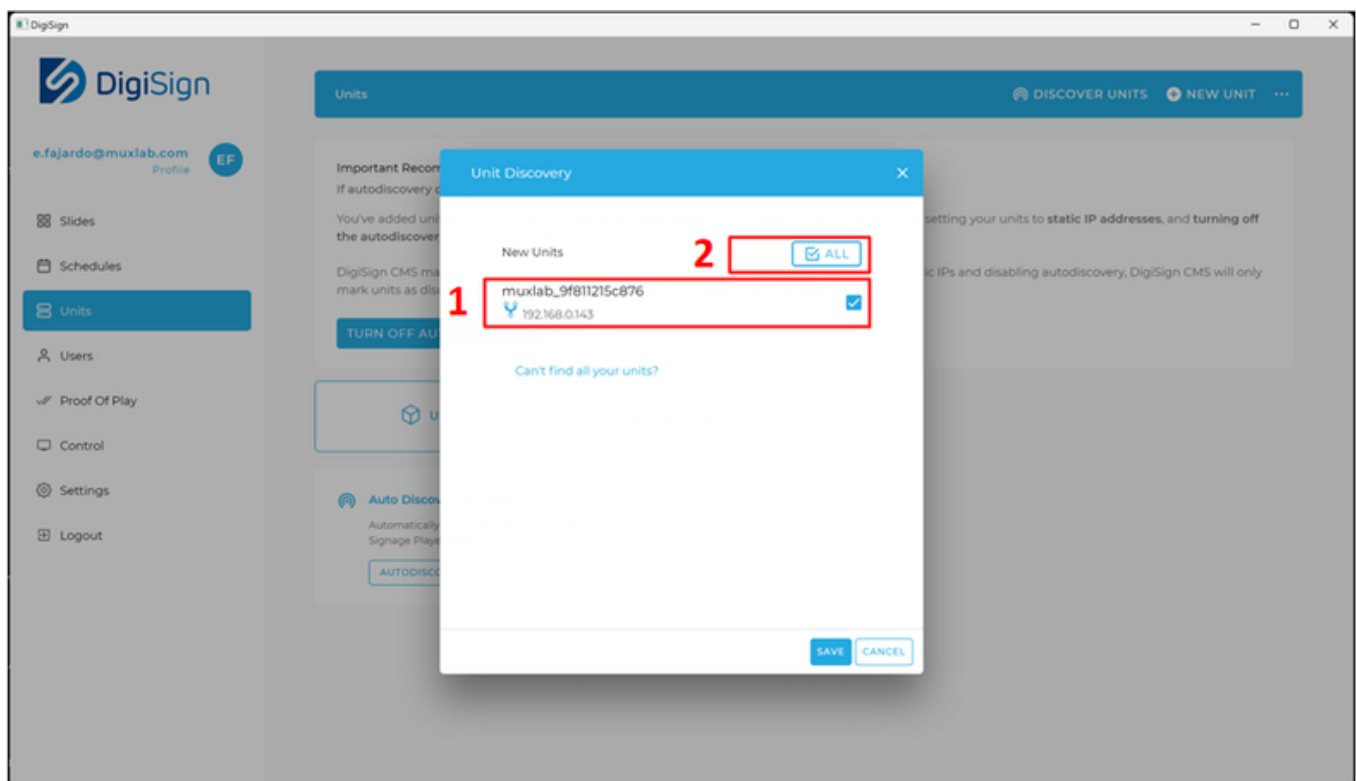
Once logged in, you may add one or more 500789, 500799 or 500890 units either manually (IP address must be known), or by doing an autodiscovery.

Start by going to the "Units" page by pressing on the "Units" tab on the far left of the main screen. This page allows units to be created, configured, managed, grouped, and deleted.

3.4.1 Adding Signage Players via Autodiscovery

Select the "Units" tab near the top of the "Units" page, then press the "AUTODISCOVER" button to automatically discover any Signage Players (models 500789, 500799 or 500890) on the network. Once no further units have been discovered for about 30 seconds, you may select any of the discovered units and stop the process by pressing "SAVE", see figure below. If you allow the system to continue the discovery process, it will stop automatically once no further units are discovered for a set amount of time. Again, select any of the discovered units and press the "SAVE" button to complete the process.

Then edit the unit and set the time zone, and then "Save" and "Synchronize" to end the process.



3.4.2 Adding Signage Players Manually

Select the "Units" tab near the top of the "Units" page, then press on "NEW UNIT" at the top right of the screen to add a new unit manually.

Under the "GENERAL" tab enter the following required information:

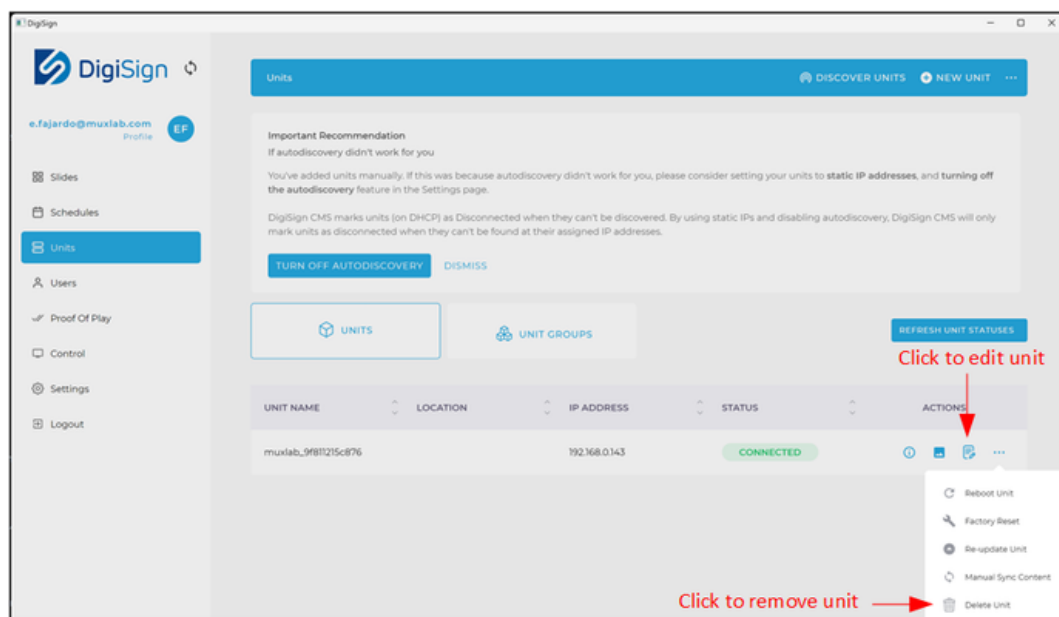
- Unit Name: Name of the player (e.g. Lobby)
- Unit Location: Name of the location where the unit is installed.
- IP address: This info is displayed on the TV connected to the unit.

Then press the "SAVE" button to complete the process.

Then edit the unit and set the time zone, and then "Save" and "Synchronize" to end the process.

3.4.3 Editing and Deleting a Signage Player

Added units can be edited by pressing the "Edit" icon or deleted by pressing the three dots icon and then selecting the "Delete unit" option, see figure below.

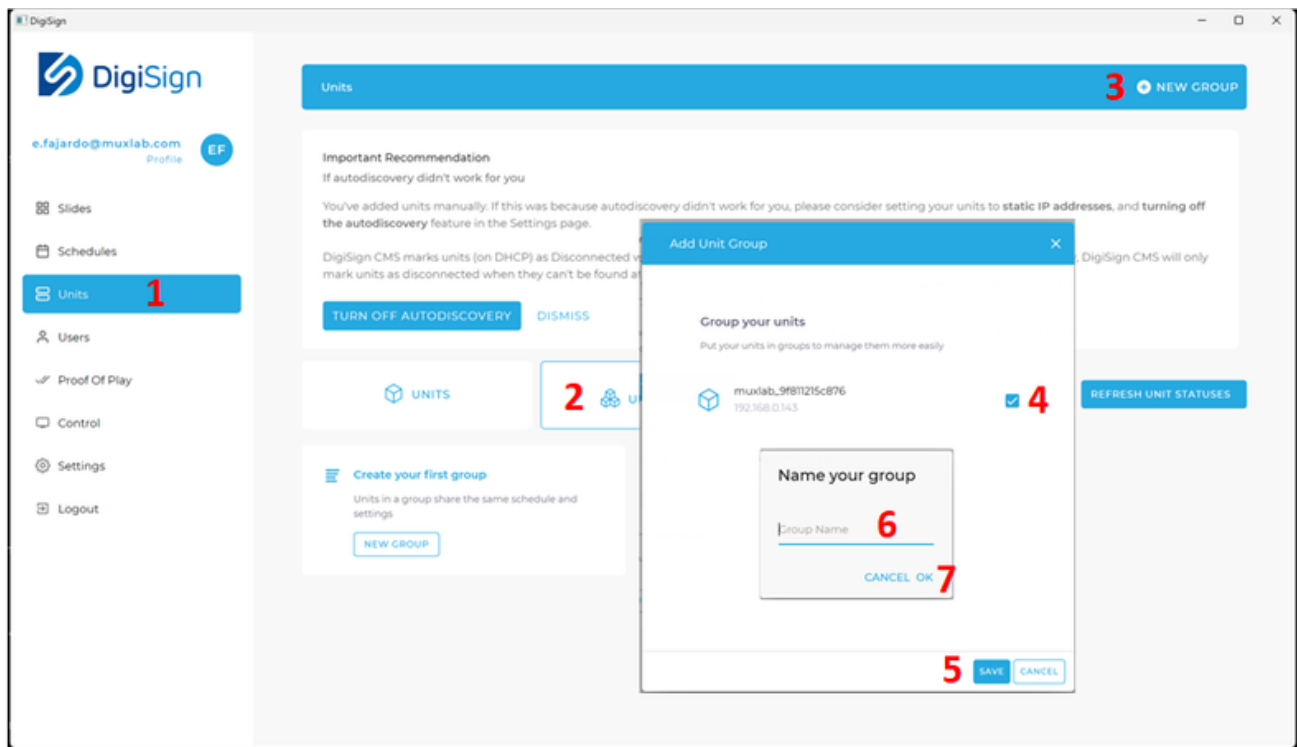


3.4.4 Creating Player Groups and Adding Players to the Group

You may create a Unit Group and add units to that group. Actions performed on a given group will affect each unit within the group. This is an efficient way of managing several units that need to be affected in an identical manner.

To create a new unit group and assign units to the group, following these steps:

1. Click "Units" on the left of the main page.
2. Click the "UNIT GROUPS" tab near the top of the units page.
3. Click the "NEW GROUP" button.
4. Click on the units to be added to the new group.
5. Press the "SAVE" button. Input the new group name.
6. Input the new group name.
7. Press the "OK" button to confirm.

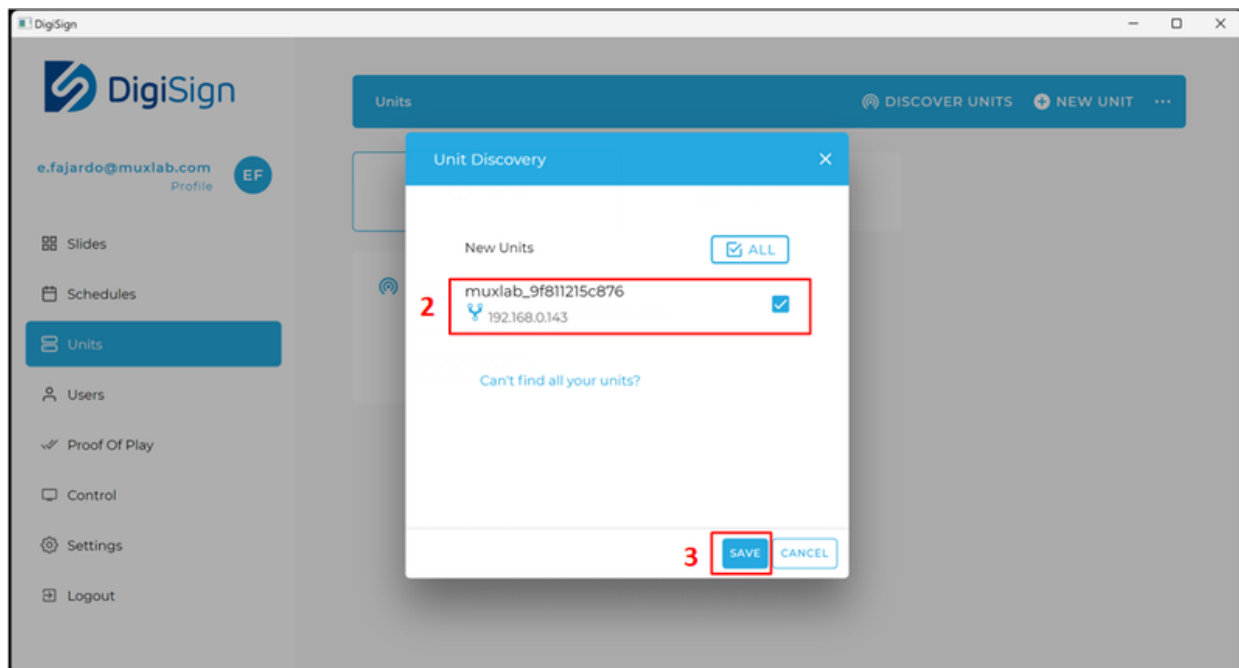
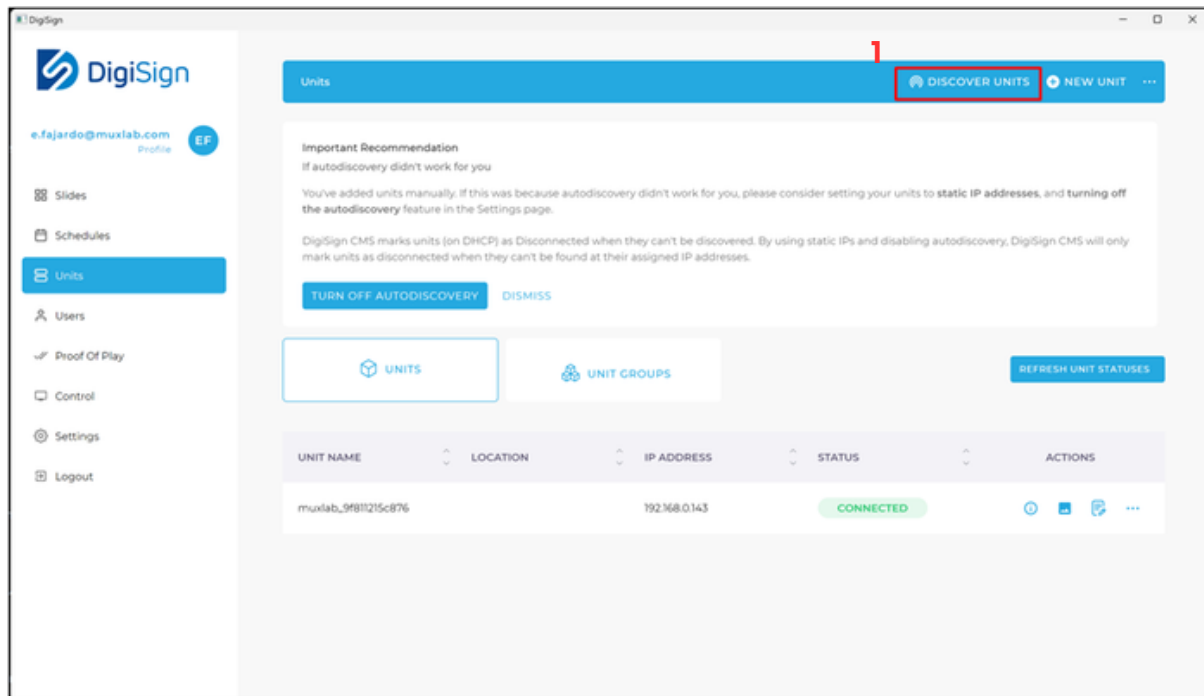


3.4.5 Signage Player Recovery (Unpairing)

If you are unable to pair a unit due it being already paired to another CMS installation, follow the steps below to "unlock" the unit.

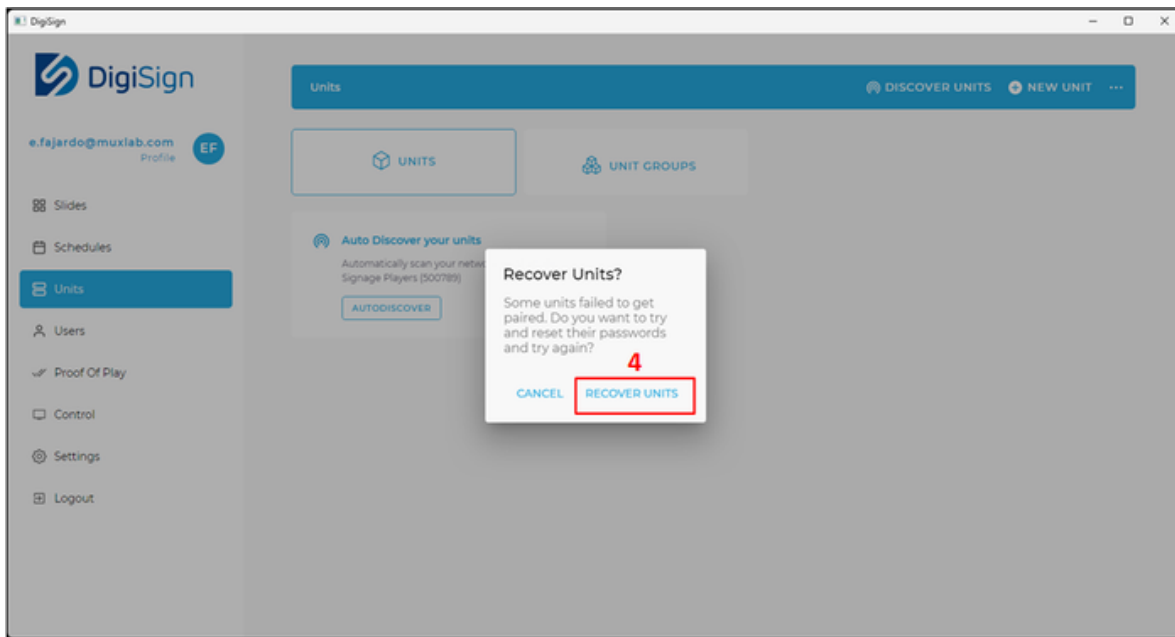
Steps 1, 2 & 3 are to discover and pair one or more units.

1. Click "Units" on the left of the main page, and then click on the "DISCOVER UNITS" tab near the top of the units page.
2. Select the discovered unit(s).
3. Click "save".



If discovery fails or if you need to unpair a unit for any reason, then:

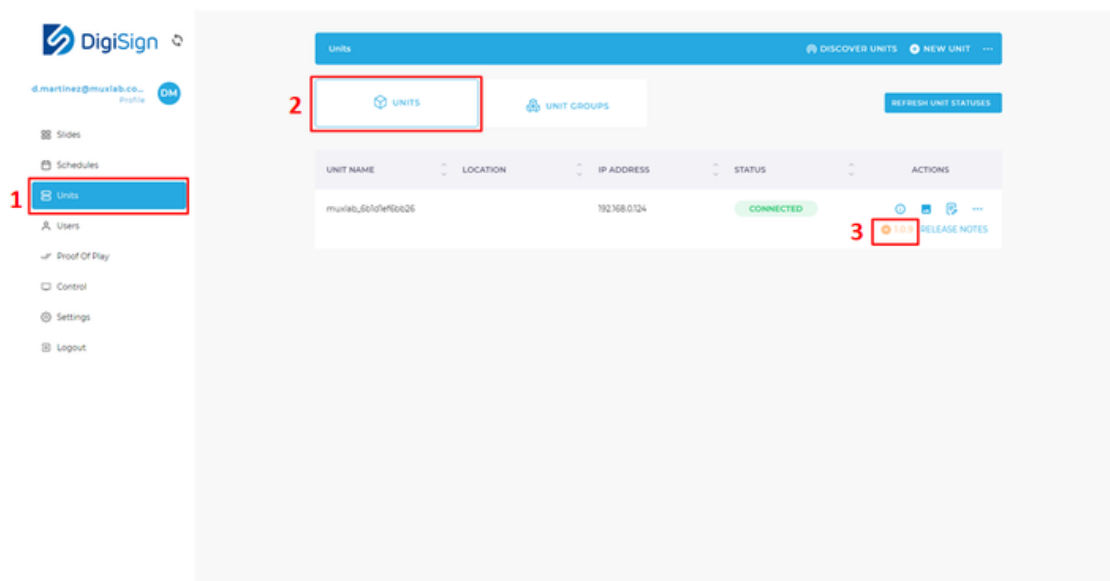
4. Click on "RECOVER UNITS" to recover the unit(s) in question, so that they may be discovered and paired again as needed.



3.4.6 Signage Player Firmware Update Process

Whenever a new firmware version is released, CMS will notify the user that a new version is available. The network the Signage Player is connected to must have Internet access so that CMS can announce the new version and the update can be downloaded and installed.

1. Click "Units" on the left of the main page.
2. Click the "UNITS" tab near the top of the units page.
3. Click on the new firmware version of the Signage player(s) you want to update. After clicking, the update will be performed automatically.

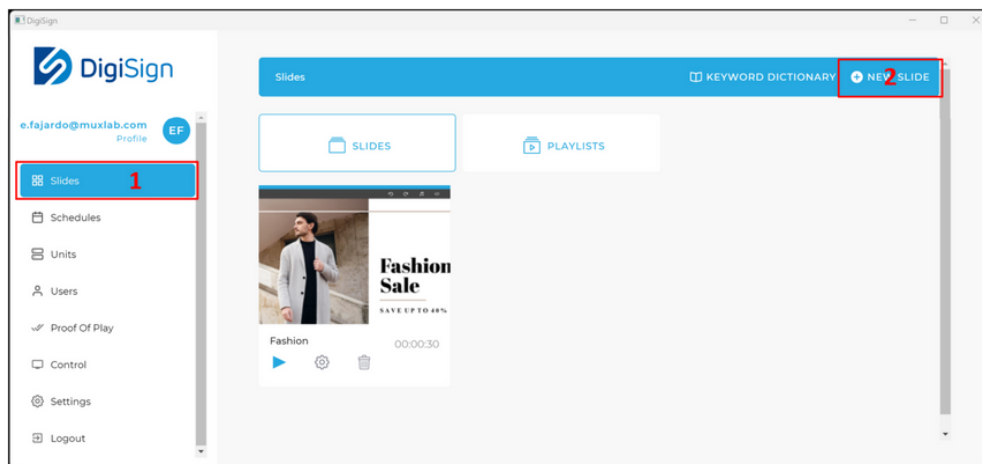


3.5 Creating and Arranging Slide Content

3.5.1 Adding and Configuring a Slide

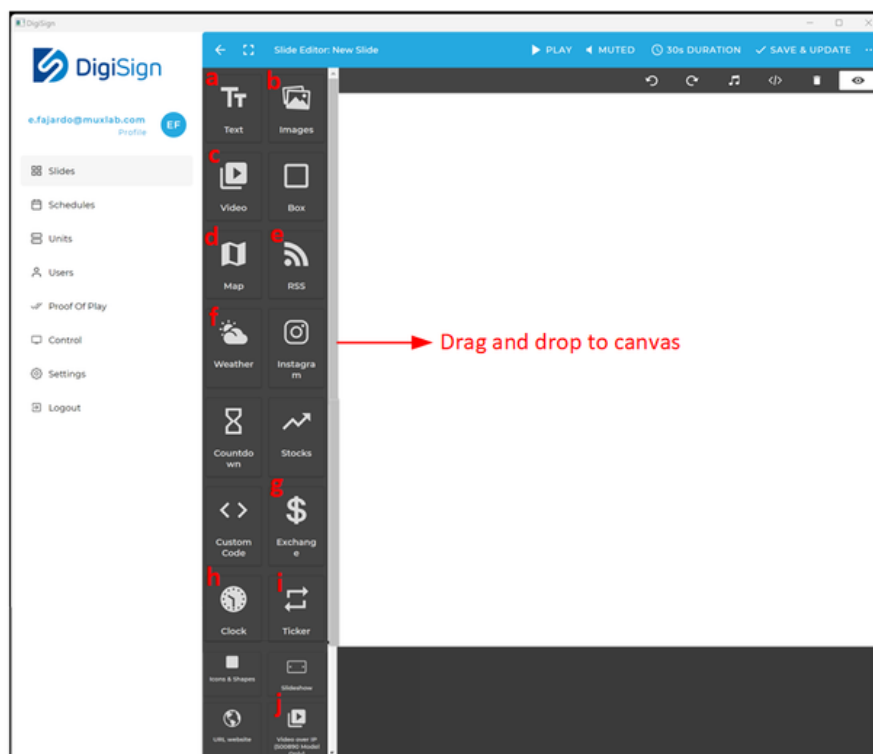
Follow these steps to add a slide:

1. Click "Slides" on the far left of the main page.
2. Click "NEW SLIDE" to create a new project.

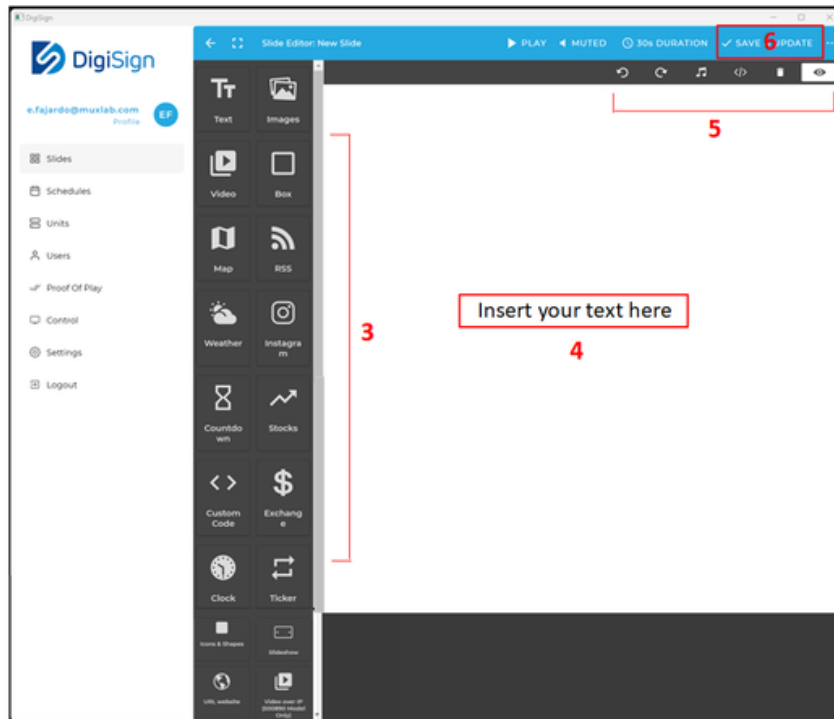


Follow these steps to edit and save a slide:

3. Drag and drop widget(s) on the far left to the working canvas on the right. Multiple widgets may be arranged on any given canvas and may even be overlapped.



4. Position and size the widgets as needed on the canvas and enter any needed information.
5. Edit/configure slide:
 - a. Add/remove music
 - b. Mute/unmute music
 - c. Set duration of slide
 - d. Add/remove widget(s) from canvas
 - e. Add custom code
 - f. Preview slide
6. Save slide (make sure to save the slide before exiting)

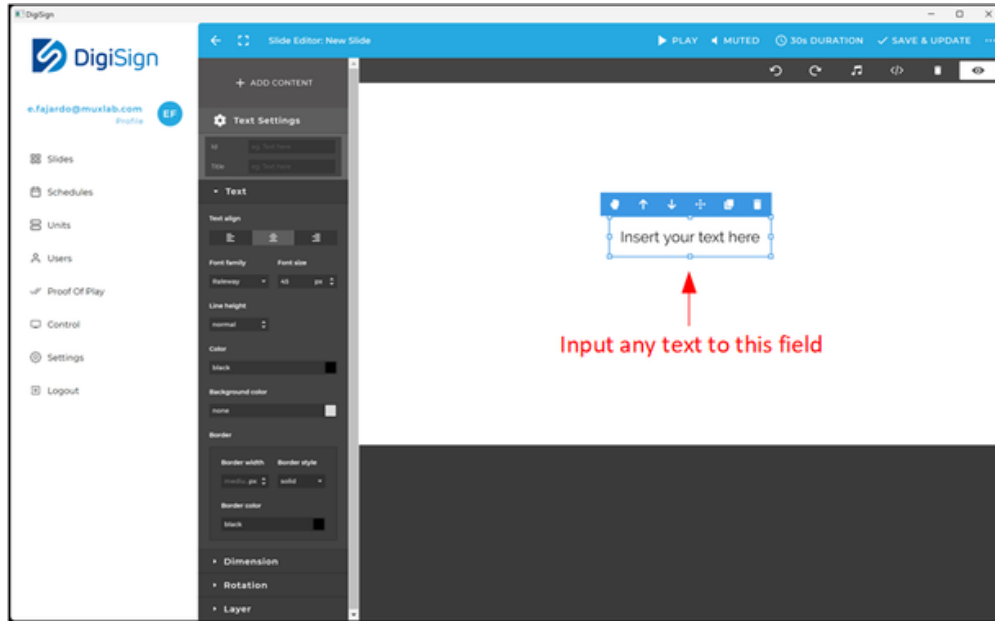


Available widgets:

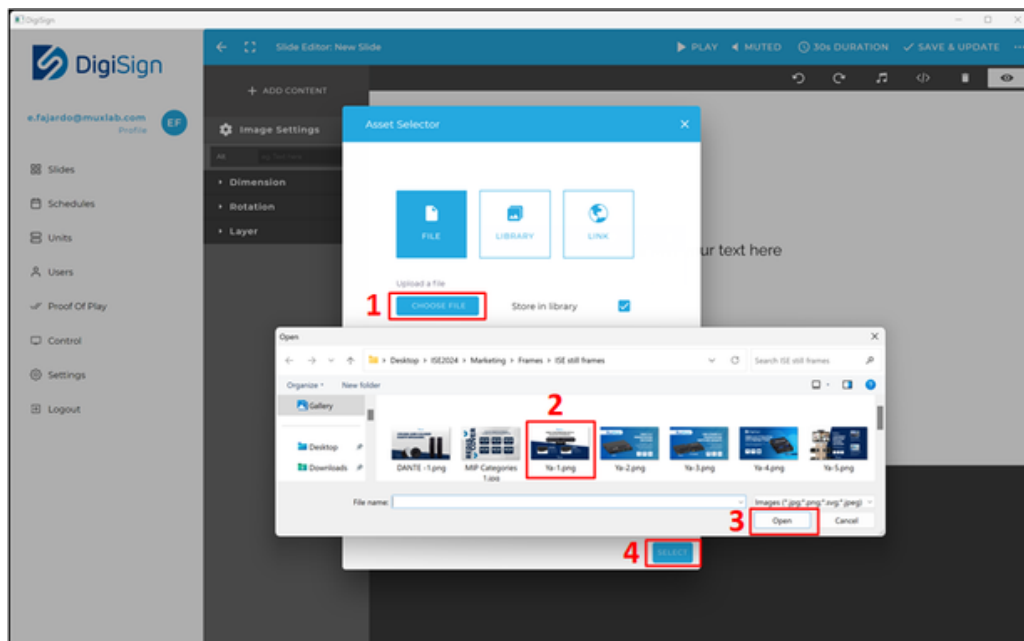
- a) Add a Text widget
 - b) Add an image widget:
 - c) Add a video widget
 - d) Add a Map widget
 - e) Add an RSS Feed widget
 - f) Add a Weather widget
 - g) Add an Exchange widget
 - h) Add a Clock widget
 - i) Add a Ticker widget
 - j) Add an Icons & Shapes widget
 - k) Add a Slideshow widget
 - l) Video over IP (500890 Model Only)
- Plus other widgets such as Box, Instagram, Stocks, Custom Code and URL website.

Examples of how to edit/configure widgets on the canvas.

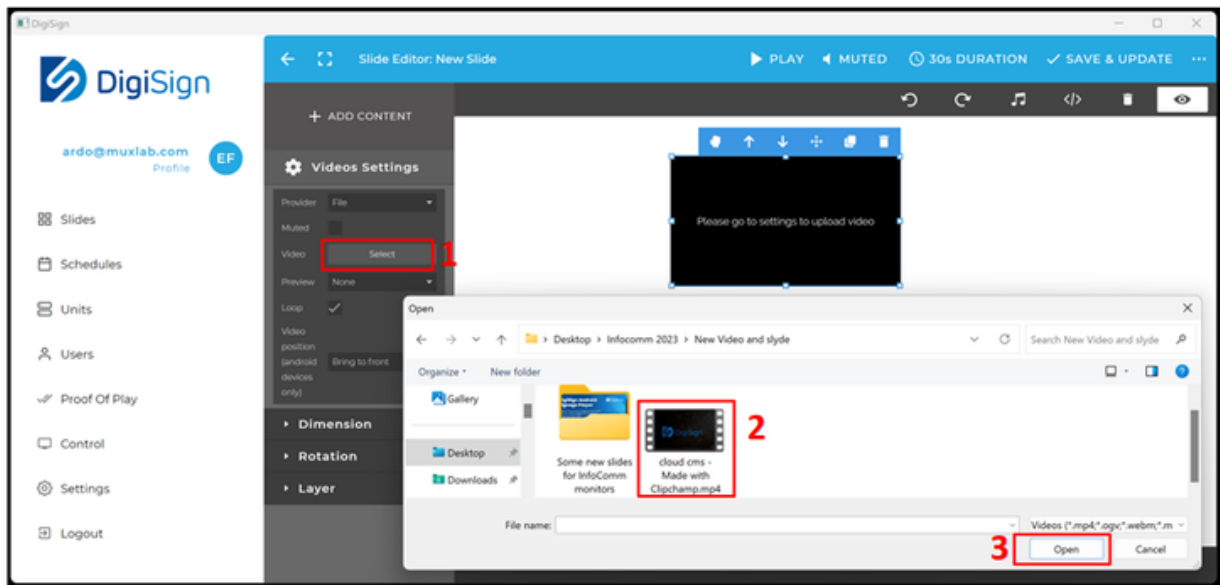
- a) Edit/Configure a Text widget by dragging the text widget to the canvas, then position and size it as needed, and enter the text to be displayed, as shown below. You may also select the font size & color, and the background color & transparency, etc.



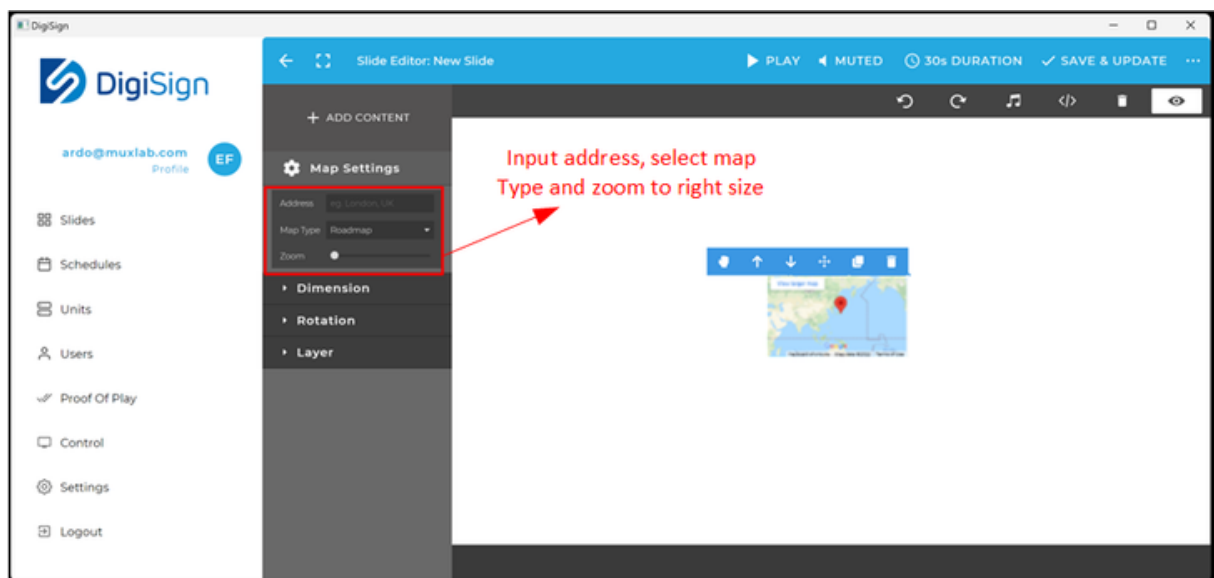
- b) Edit/Configure an image widget by dragging the image widget to the canvas, select the image file and then position and size it as needed.



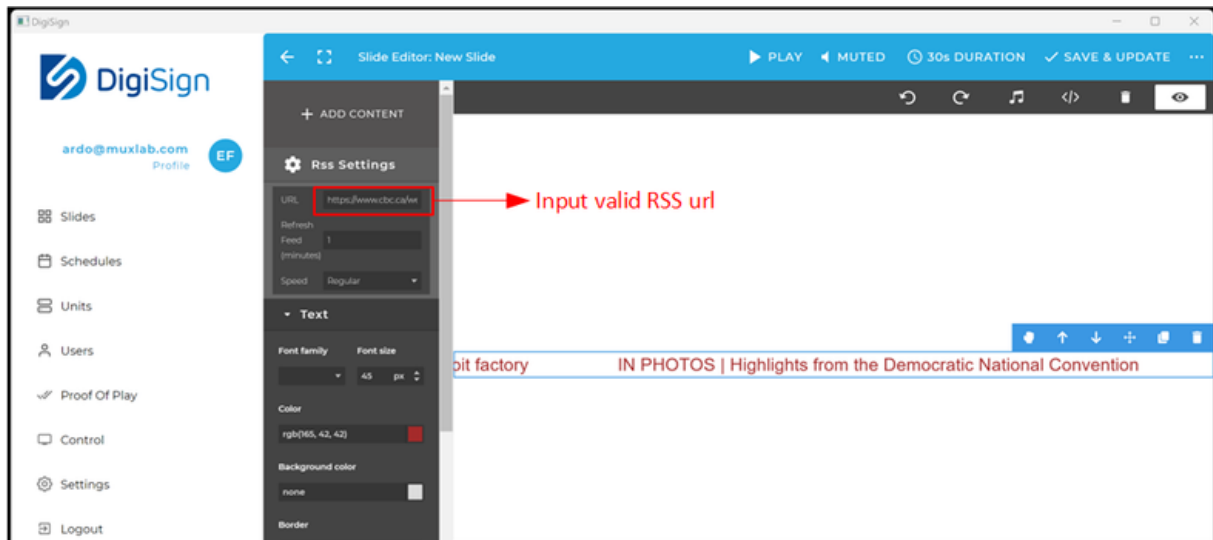
- c) Edit/Configure a video widget by dragging the video widget to the canvas, select the video file and then position and size it as needed.



- d) Edit/Configure a Map widget by dragging the map widget to the canvas, select the address and map type, and then position and size it as needed.

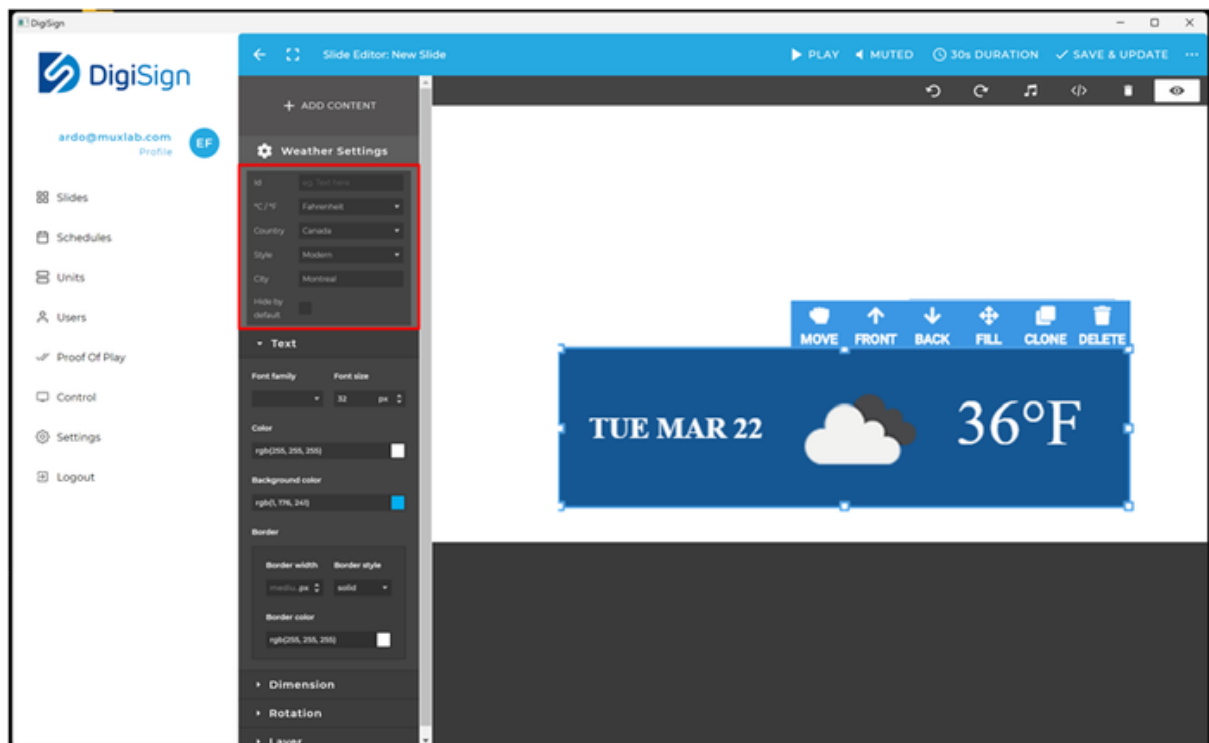


- e) Edit/Configure an RSS widget by dragging the RSS widget to the canvas, select the RSS URL, and then position and size it as needed. You may also select the font size & color, and the background color & transparency, etc.

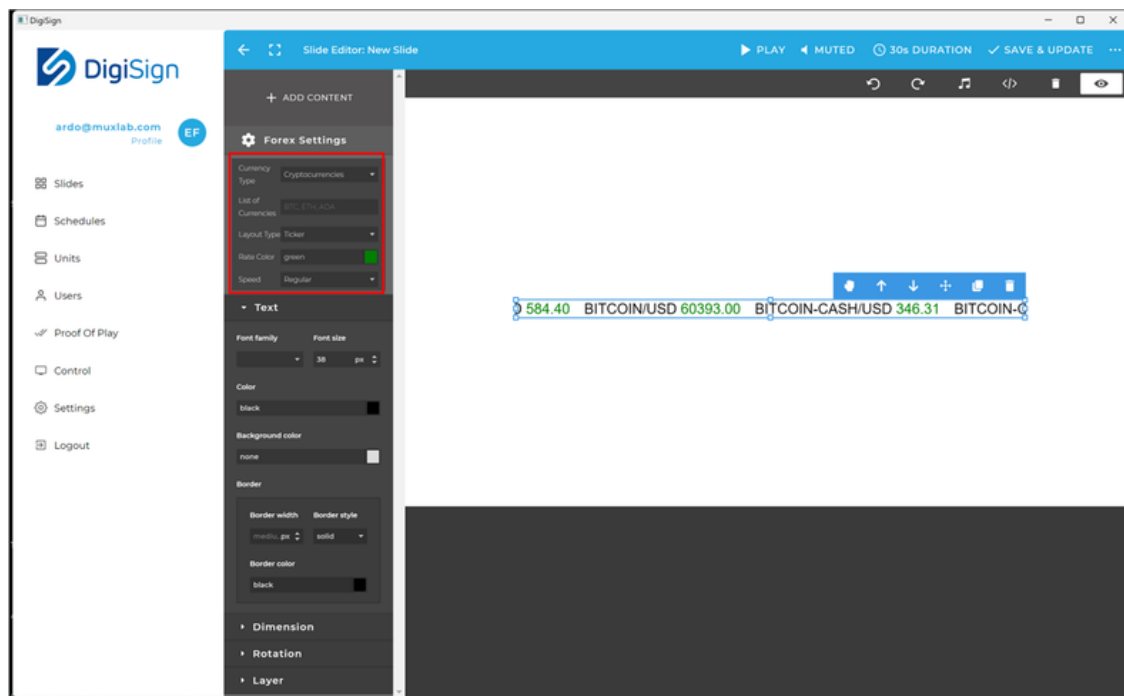


- f) Edit/Configure a Weather widget by dragging the Weather widget to the canvas, enter the country and city location information, and then position and size it as needed. You may also select the font size & color, and the background color & transparency, etc.

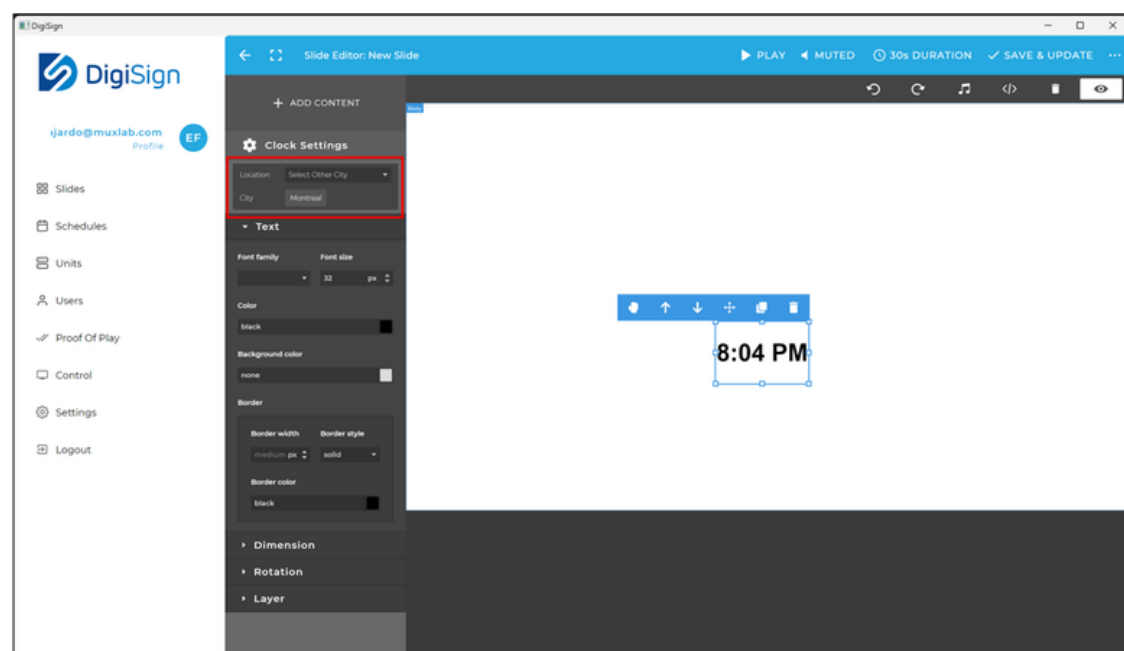
Note: For first time use, please signup on openweathermap.org and get an API key.



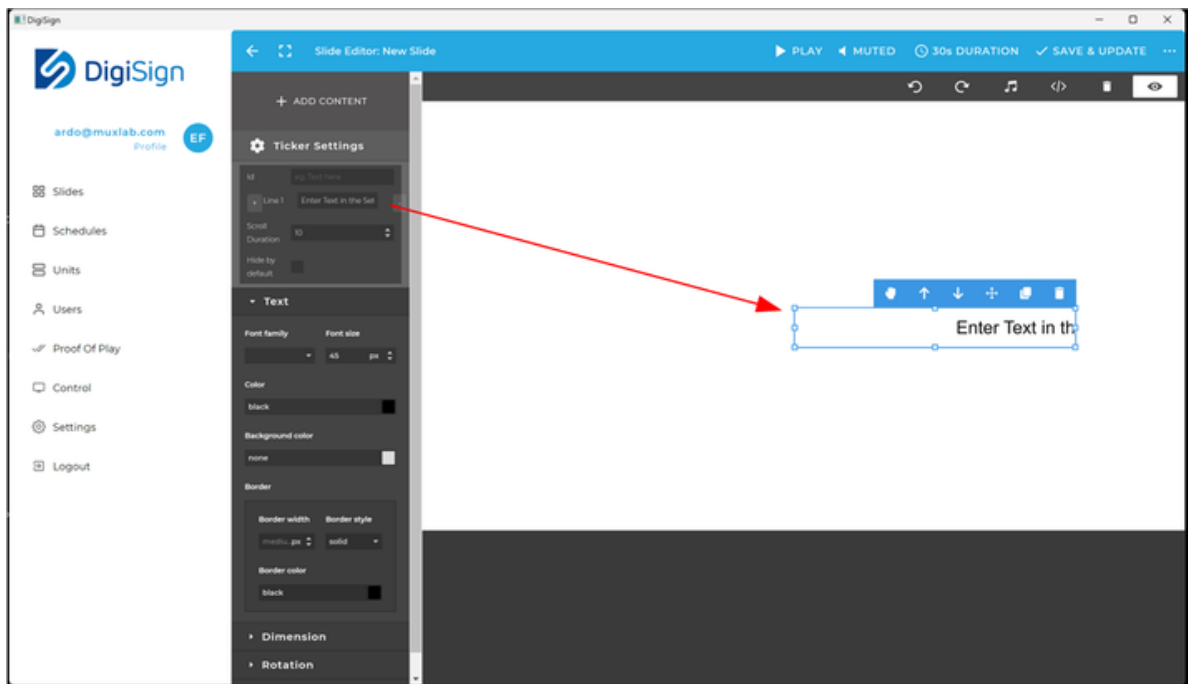
- g) Edit/Configure an Exchange widget by dragging the Exchange widget to the canvas, enter the currency information, and then position and size it as needed. You may also select the font size & color, and the background color & transparency, etc.



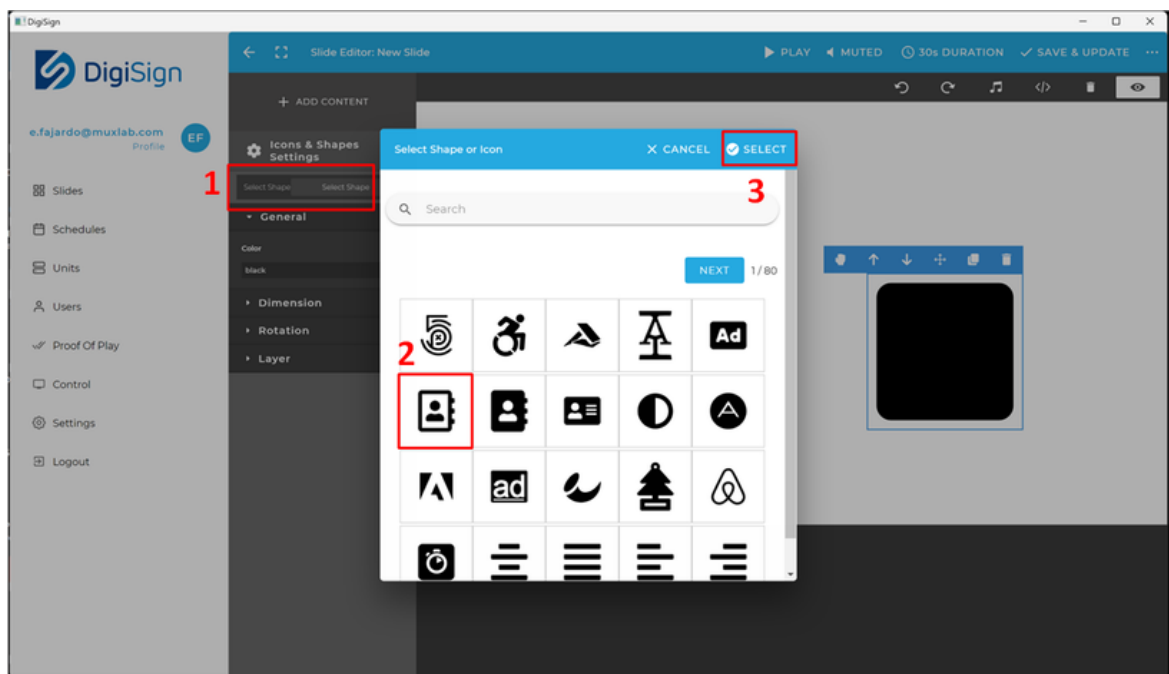
- h) Edit/Configure a Clock widget by dragging the Clock widget to the canvas, enter the time from the player or from a specific city, and then position and size it as needed. You may also select the font size & color, and the background color & transparency, etc.



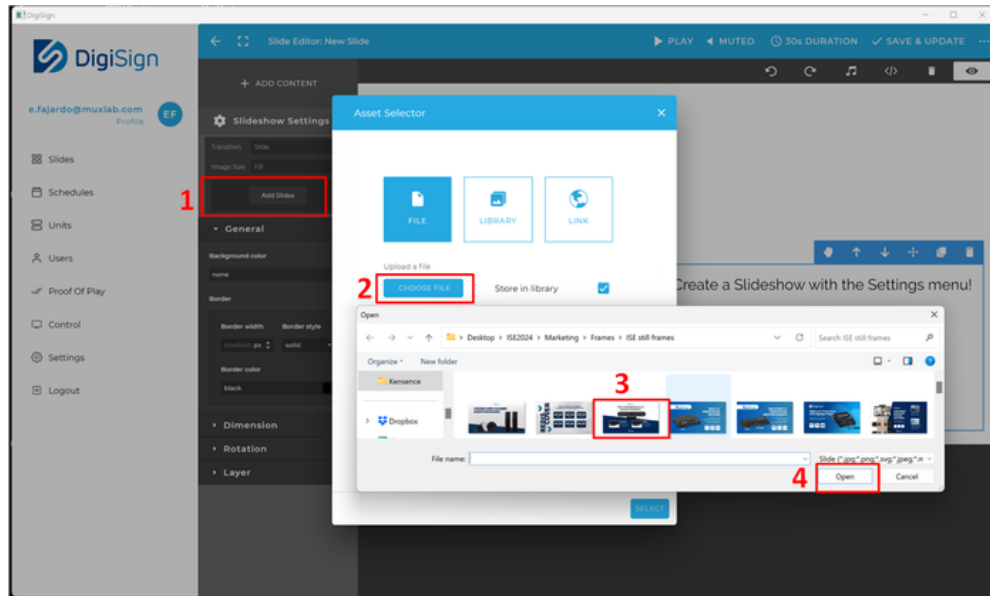
- i) Edit/Configure a Ticker widget by dragging the Ticker widget to the canvas, then position and size it as needed, and enter the text to be displayed, as shown below. You may also select the font size & color, and the background color & transparency, etc .



- j) Edit/Configure an Icons & Shapes widget by dragging the Icons & Shapes widget to the canvas, then position and size it as needed., and enter the text to be displayed, as shown below. You may also select the background color & transparency, etc.



- k) Edit/Configure a Slideshow widget by dragging the Slideshow widget to the canvas, then select your file(s) for the slideshow, position and size them as needed. You may select multiple slides for your slideshow.



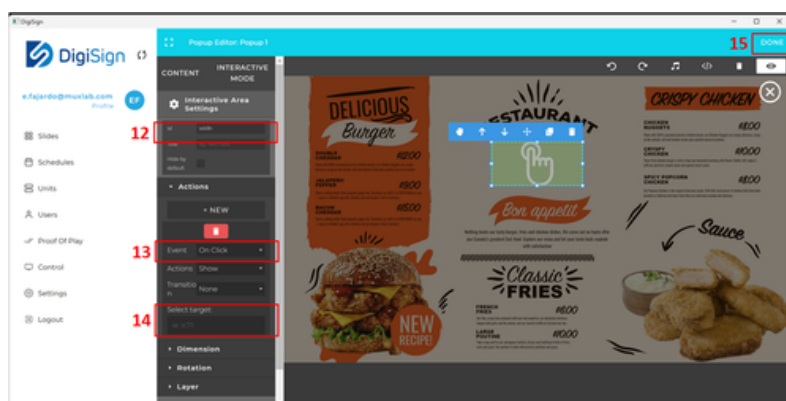
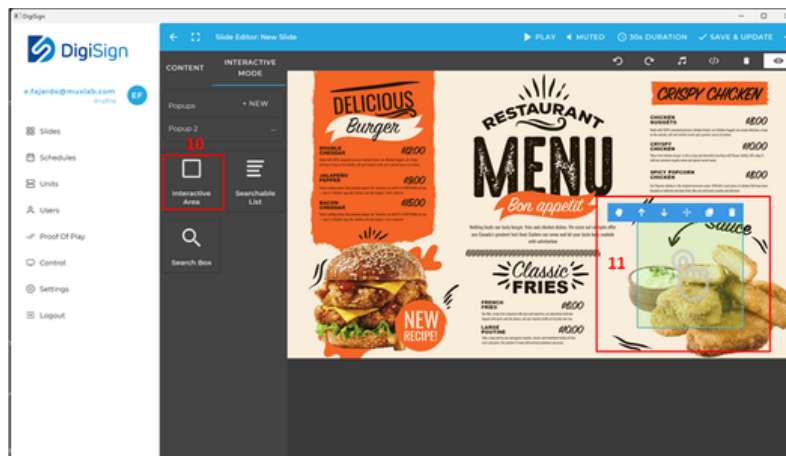
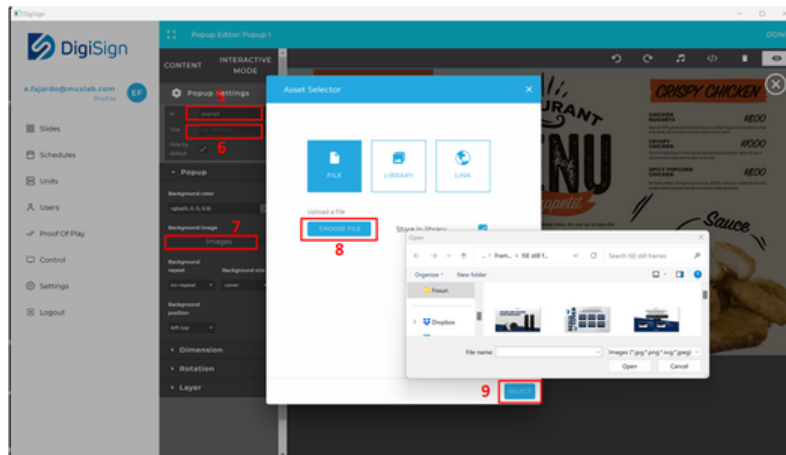
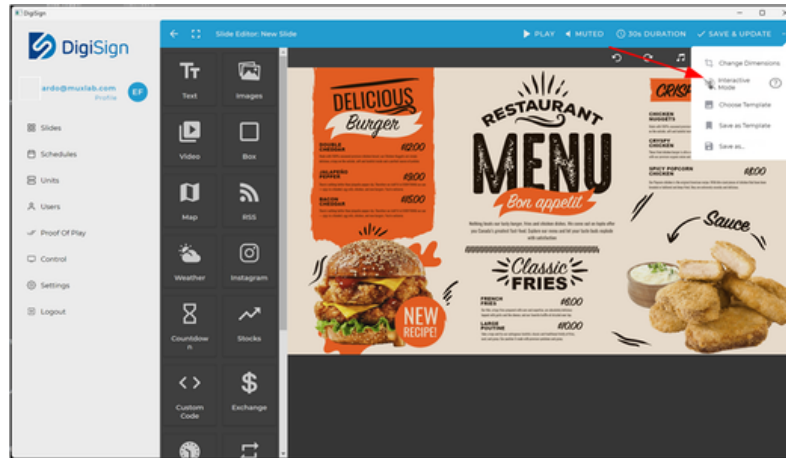
Repeat steps above as needed since multiple widgets may be placed on the canvas.

Important Note: Ensure that you "SAVE" your slide (on upper right) before exiting the slide editor.

3.5.2 Create an Interactive Slide

Follow the below steps to create an interactive slide:

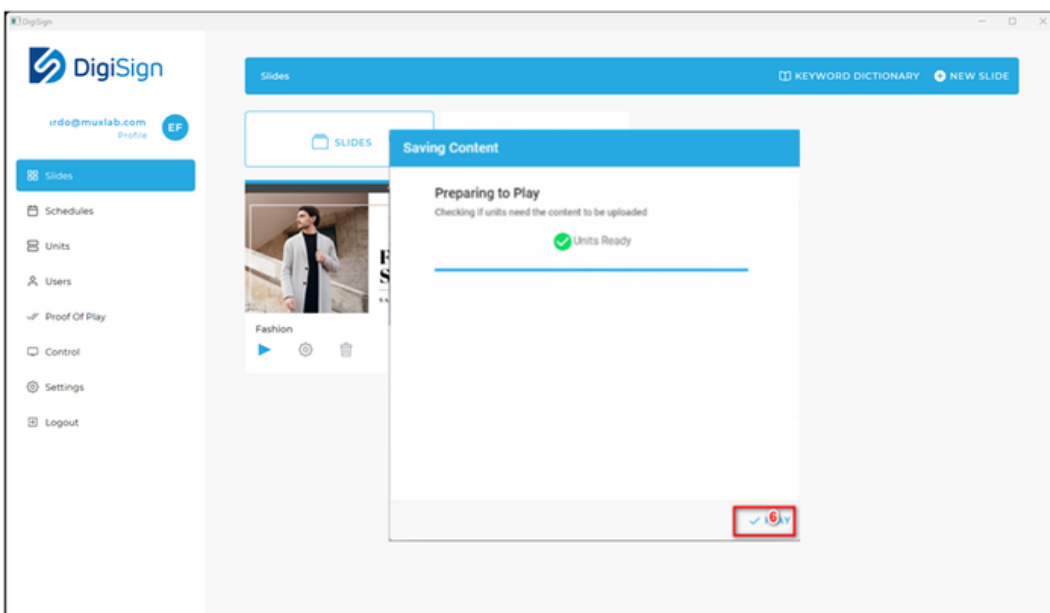
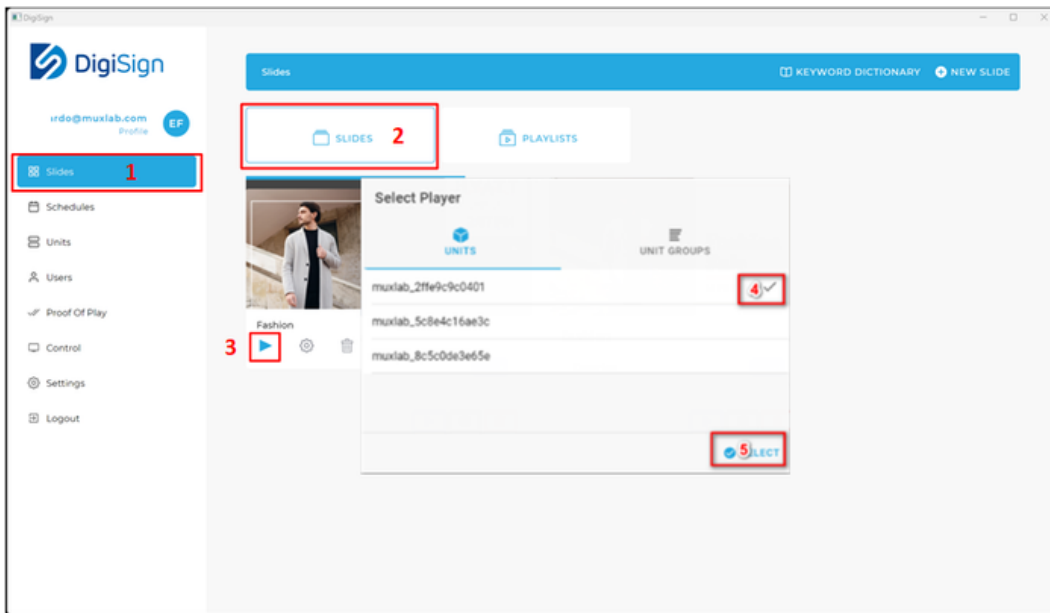
1. Create a new slide based on any template, and click on the extension menu
2. Make sure interactive mode is enabled
3. Click interactive mode
4. Click "new" button to create a popup
5. Give an ID for the created popup (optional)
6. Give a title for the created popup (optional)
7. Set up the created popup with an image.
8. Choose an image from local a computer/device
9. Confirm the choice of image selected
10. Drag "interactive area" component to a place of interest on the slide
11. Adjust the interactive area as needed
12. Give an ID to the created interactive area
13. Choose event handle type
14. Choose target which will be populated
15. Click the "DONE" button



3.5.3 Playing a Slide Directly

Follow the below steps to directly play a slide:

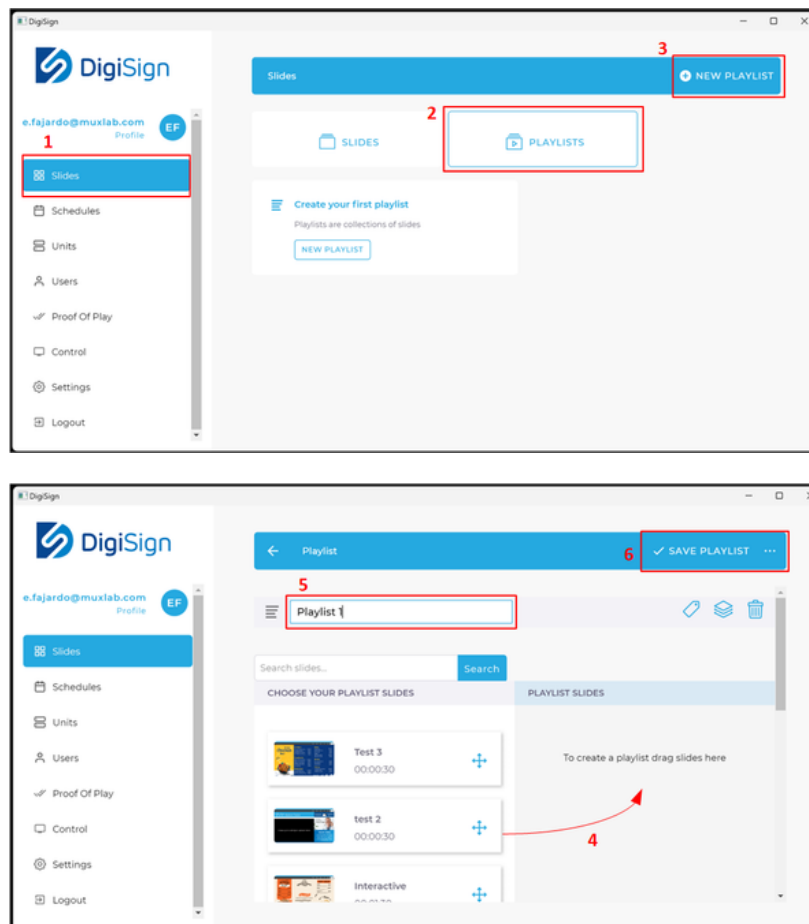
1. Click "Slides" on the far left of the main page.
2. Click on "SLIDES" tab near the top of the "Slides" page.
3. Select a slide to be played by pressing on the slide "PLAY" icon.
4. Select the Unit or Unit Group.
5. Press "SELECT".
6. Press "PLAY" on the following popup screen.



3.5.4 Creating a playlist

To add a playlist, here are the steps:

1. Click "Slides" on the far left of the main page.
2. Click on "PLAYLISTS" tab near the top of the "Slides" tap
3. Click on the "NEW PLAYLIST" button.
4. Drag slides from the left column to the right to select which slides you would like in the playlist.
5. Input playlist name.
6. Press "SAVE PLAYLIST" to confirm.



3.6 Creating and Managing Schedules

A schedule can be configured for a particular Unit or a Unit Group.

Note:

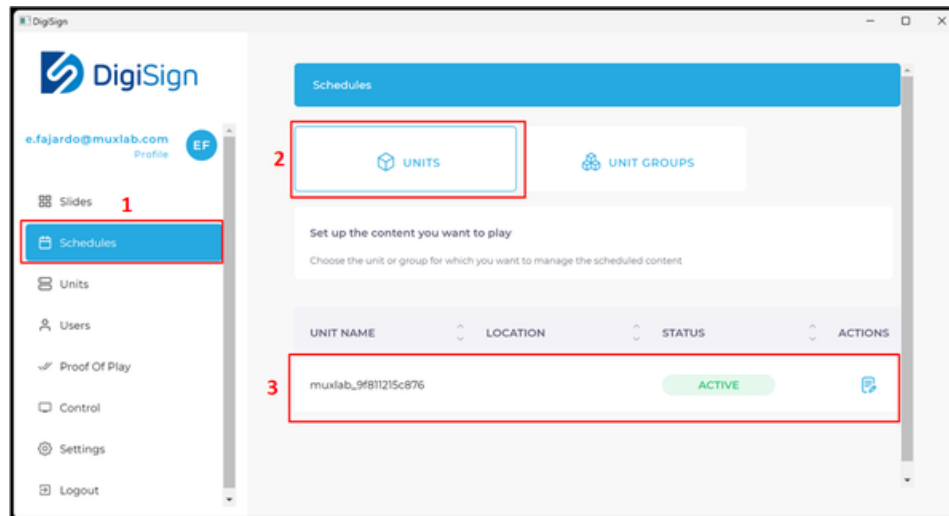
If a unit belongs to a group, the schedule can only be configured on the group as a whole, and not on individual unit within a group.

As of this DigiSign Software release, each schedule created must be initially linked to a given Signage Player, or to a Group of Signage Players.

3.6.1 Creating a Schedule for a Player and Publishing

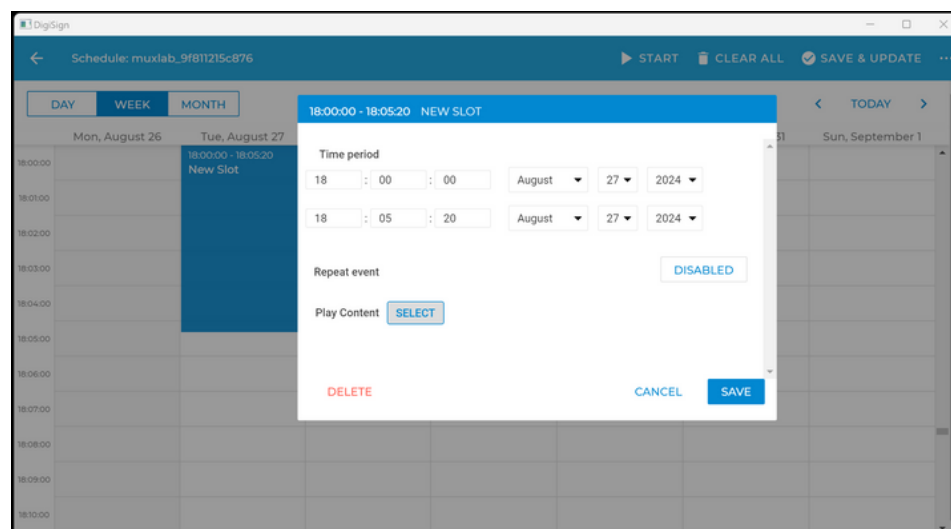
To create a schedule for a Unit, please follow the below steps:

1. Click "Schedules" on the far left of the main page.
2. Select the "UNITS" tab near the top.
3. Select a given Unit by clicking on the icon on the far right.

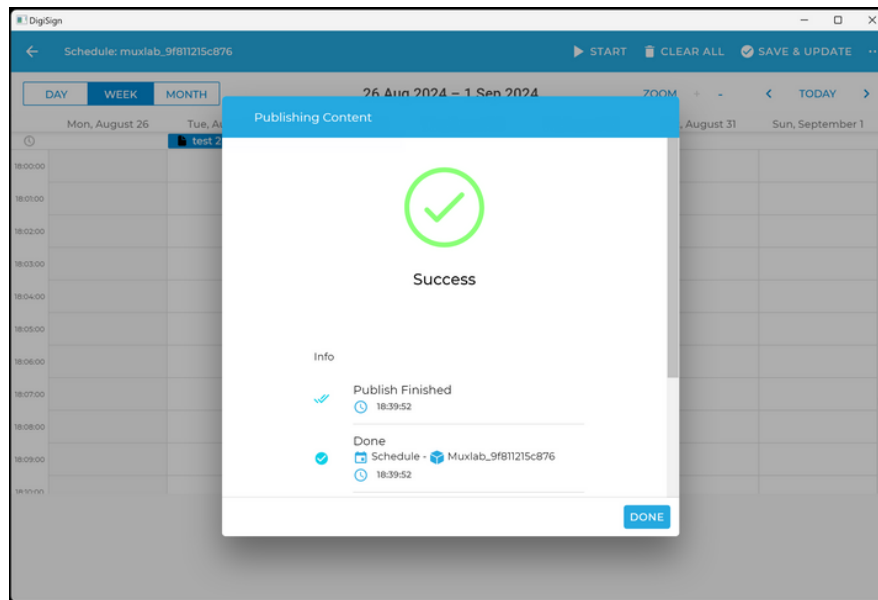


4. Set the schedule date and time and select slide(s), and press "SAVE".

- Locate start time on calendar.
- Drag to form a time slot of a given duration.
- Adjust start time and end time as needed.
- Choose a slide or a playlist.
- Press "SAVE".



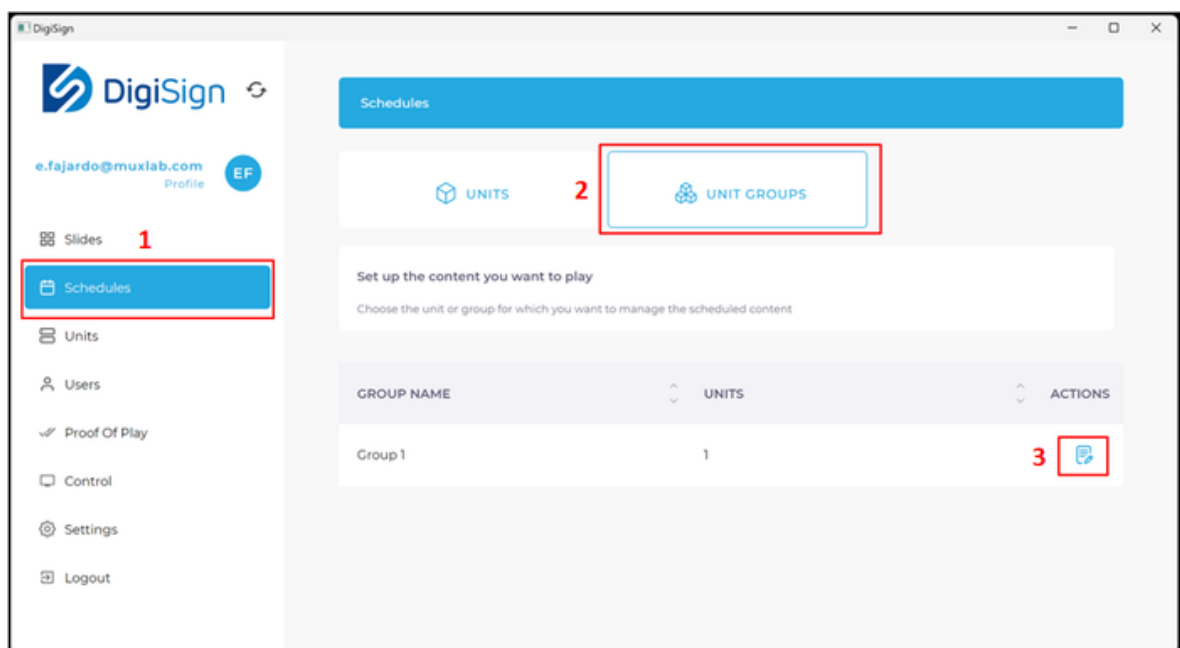
5. The schedule details and published confirmation message is shown.
6. Press "DONE" to complete the process.



3.6.2 Creating a Schedule for a Player Group and Publishing

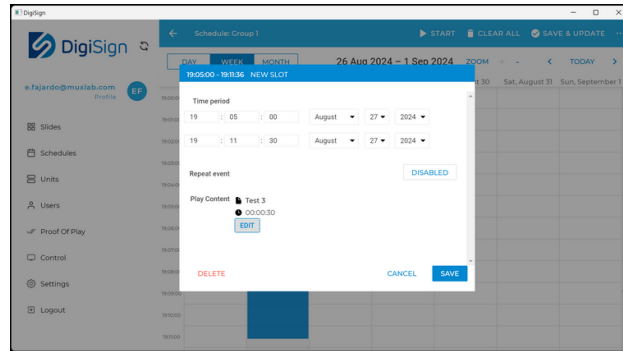
To create a schedule for a Unit Group, here are the steps

1. Click "Schedules" on the far left of the main page.
2. Select the "UNIT GROUPS" tab near the top.
3. Select a given Unit Group by clicking on the  icon.



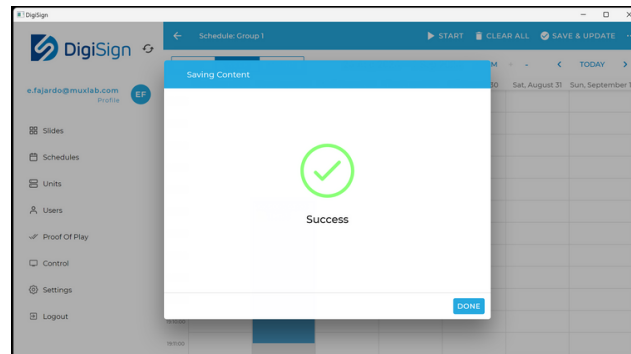
4. Set the schedule date and time and select slide(s), and press "SAVE".

- Locate start time on calendar.
- Drag to form a time slot of a given duration.
- Adjust start time and end time as needed.
- Choose a slide or a playlist.
- Press "SAVE".

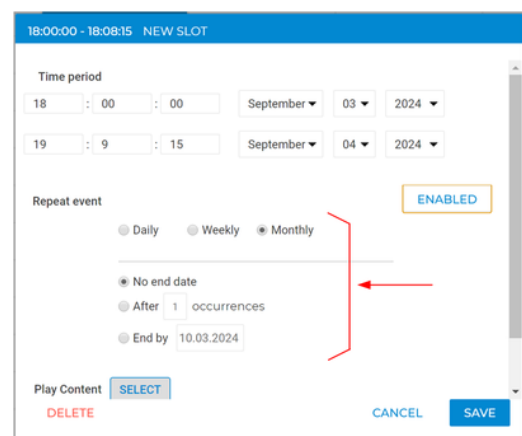
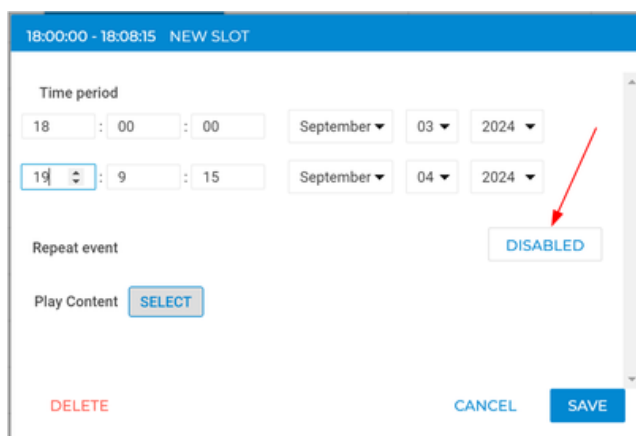


5. The schedule details and published confirmation message is shown.

6. Press "DONE" to complete the process.



7. If an event is required to repeat every day, every week or every month, the User only needs to enable the "Repeat event" option, select the frequency with which the event will repeat and define when the event should stop repeating.



3.7 Managing Users

3.7.1 Add a New User

The DigiSign Software allows administrators to create additional user accounts with administrator or operator or custom role privileges. An operator has more restrictive privileges than an administrator, and custom role may be tailored to your needs depending on the DigiSign Software package that you have.

For example, you may follow these steps to add an operator account:

1. Click "Users" on the far left of the main page.
2. Select the "USERS" tab near the top.
3. Click "NEW USER".
4. Enter information about email, password, language, etc.
5. Select "OPERATOR".
6. Click "SAVE"

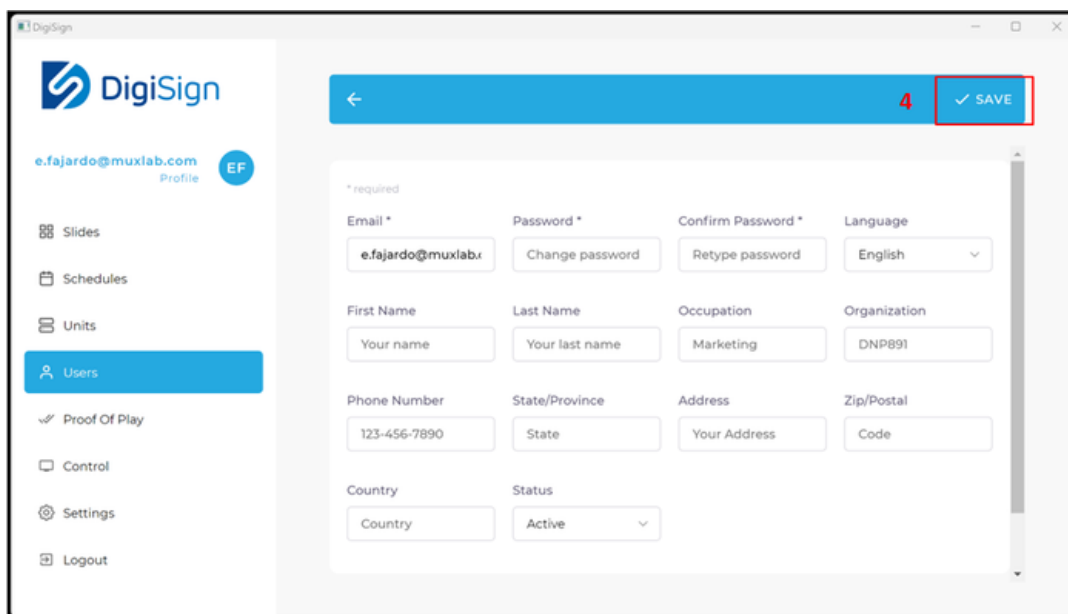
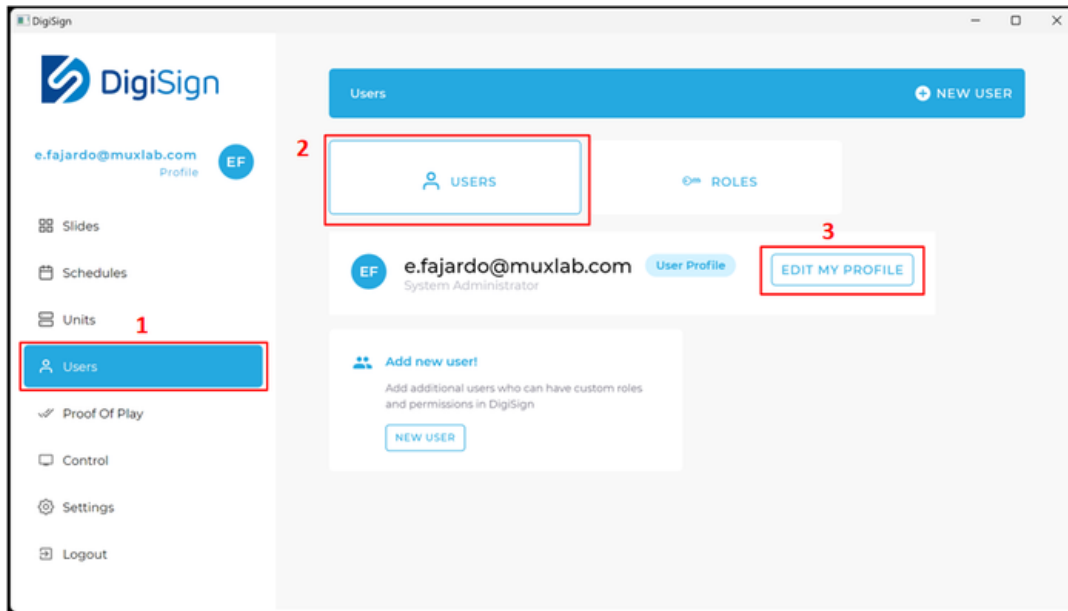
The first screenshot shows the DigiSign main interface. On the left sidebar, the 'Users' menu item is highlighted with a red box and labeled '1'. At the top, the 'USERS' tab is selected with a red box and labeled '2'. In the top right corner, the 'NEW USER' button is highlighted with a red box and labeled '3'.

The second screenshot shows the 'Profile Details' form for adding a new user. The form contains several input fields: Email, Password, Confirm Password, Language, First Name, Last Name, Occupation, Organization, Phone Number, State/Province, Address, Zip/Postal Code, Country, and Status. The 'Role' dropdown menu is set to 'OPERATOR' and is highlighted with a red box and labeled '5'. The 'SAVE' button in the top right corner is highlighted with a red box and labeled '6'. A red line labeled '4' indicates the area where user information is entered.

3.7.2 Edit a User Account

Follow these steps to edit a user account:

1. Click "Users" on the far left of the main page.
2. Select the "USERS" tab near the top.
3. Select a user account and click "EDIT".
4. Input the necessary changes, such as a new password and press "SAVE" to save the changes.

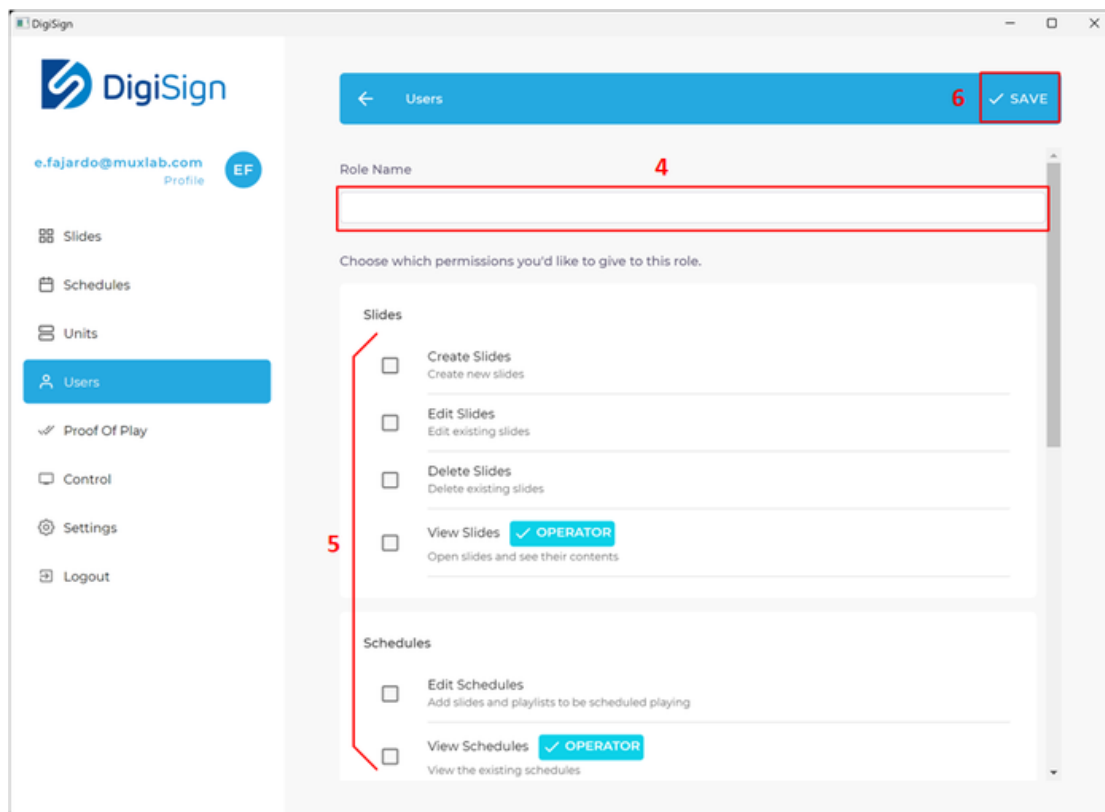
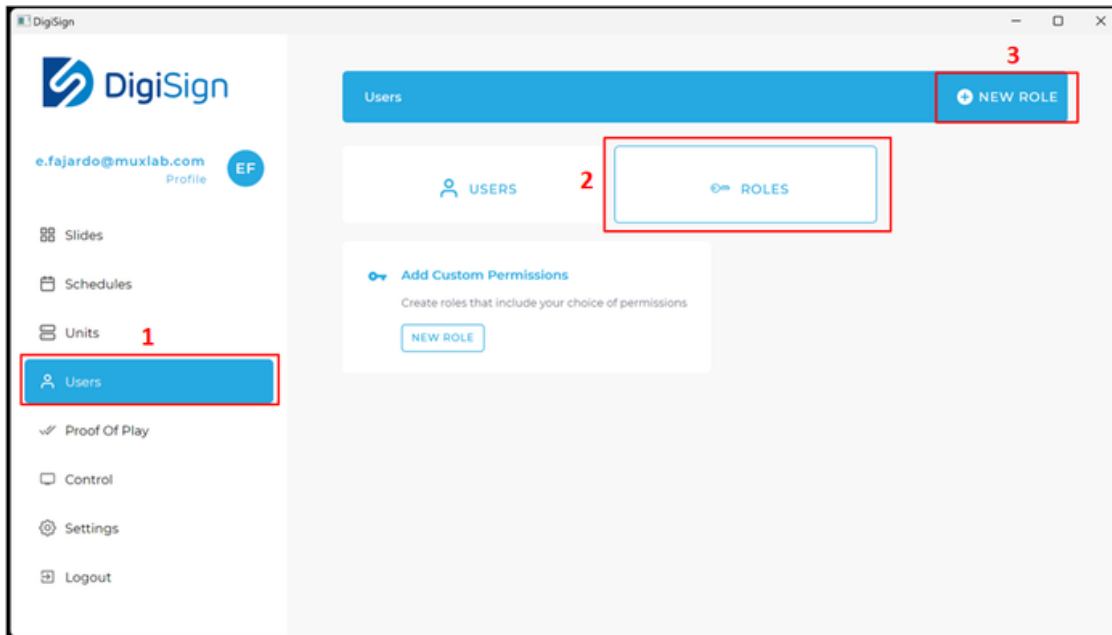


3.7.3 Add a New User Role

DigiSign Software supports two standard roles, including administrator and operator, but additional custom role(s) may be created depending on the DigiSign Software package that you have.

Steps for adding a new role:

1. Click "Users" on the far left of the main page.
2. Select the "ROLES" tab near the top.
3. Click on "NEW ROLE".
4. Input the role name.
5. Check/select permission(s) as needed.
6. Click "SAVE" to confirm.



3.8 Proof of Play

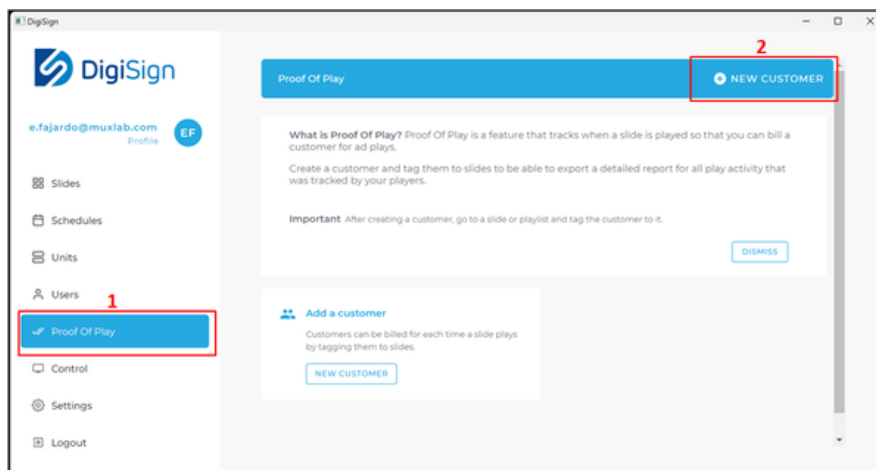
Proof of Play is a feature that tracks when a slide is played so that you can bill a customer for a specific AD played which belongs to the given customer. This allows your customers to include their ADs within your signage system.

Create a customer and tag them to their customer slides, in order to be able to export a detailed report for all played activity tracked by your players for the given slides.

3.8.1 New Customer

Follow these steps to create new customer/tag to track their slides.

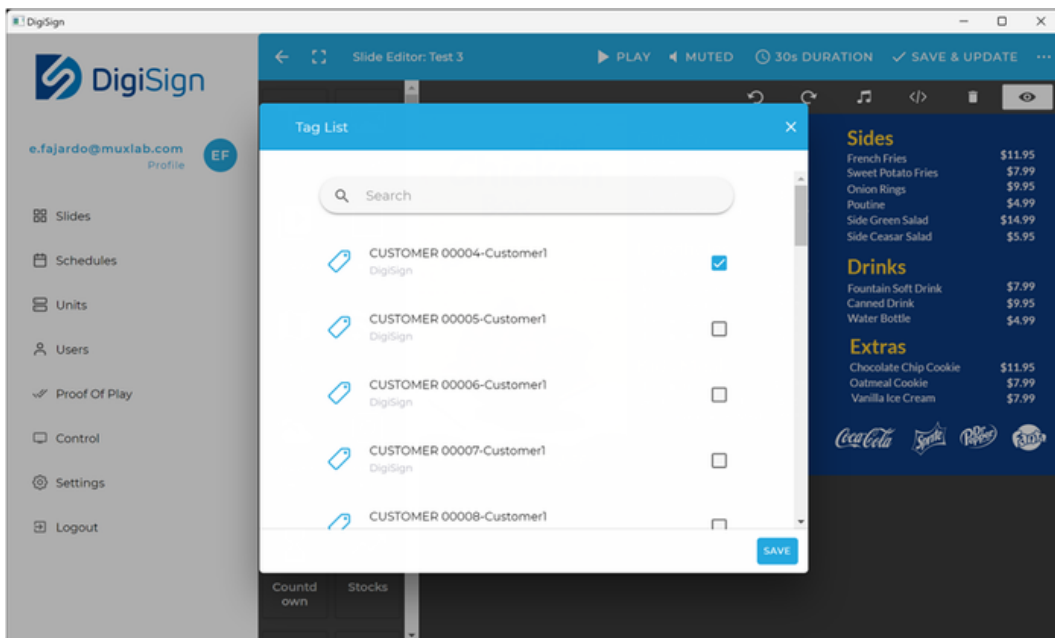
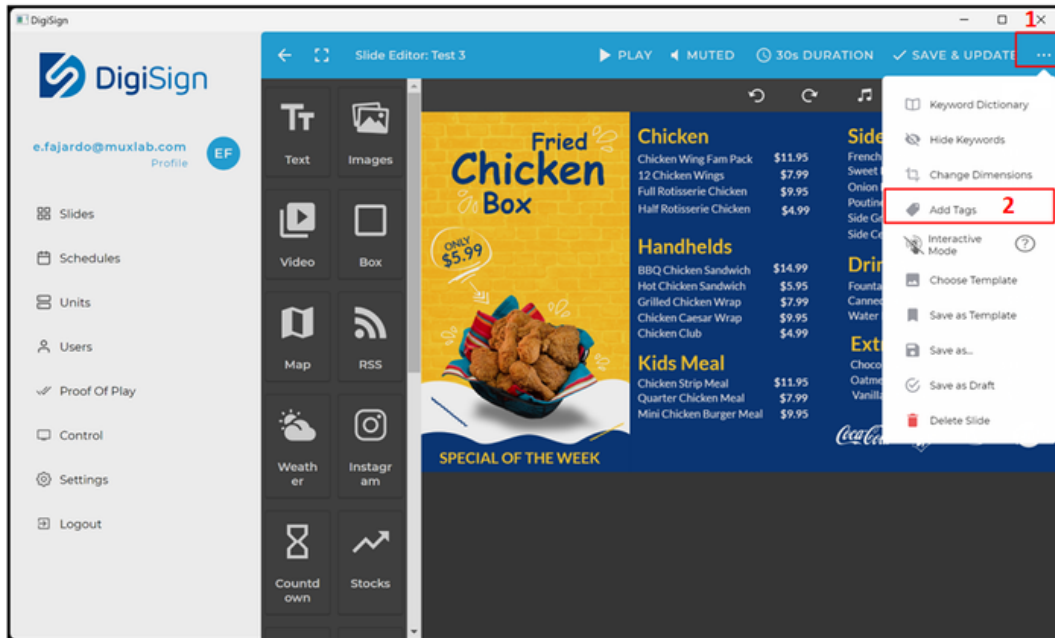
1. Click "proof of play"
2. Click "new customer"
3. Input necessary info to create a customer ID/key
4. And click "save" to confirm



3.8.2 Add a Tag to a Slide

Follow these steps to add a tag to a specified slide for a given customer.

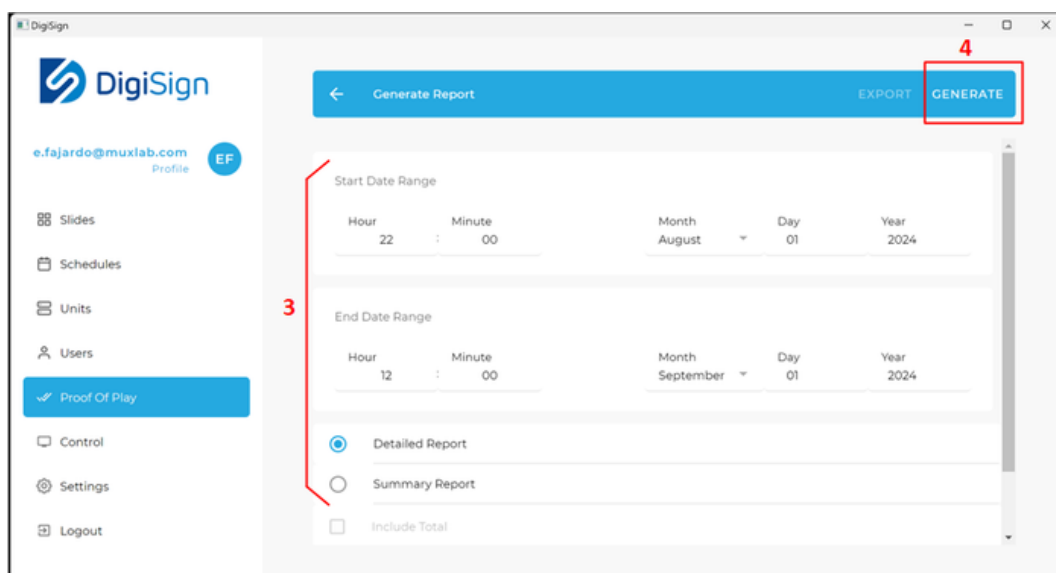
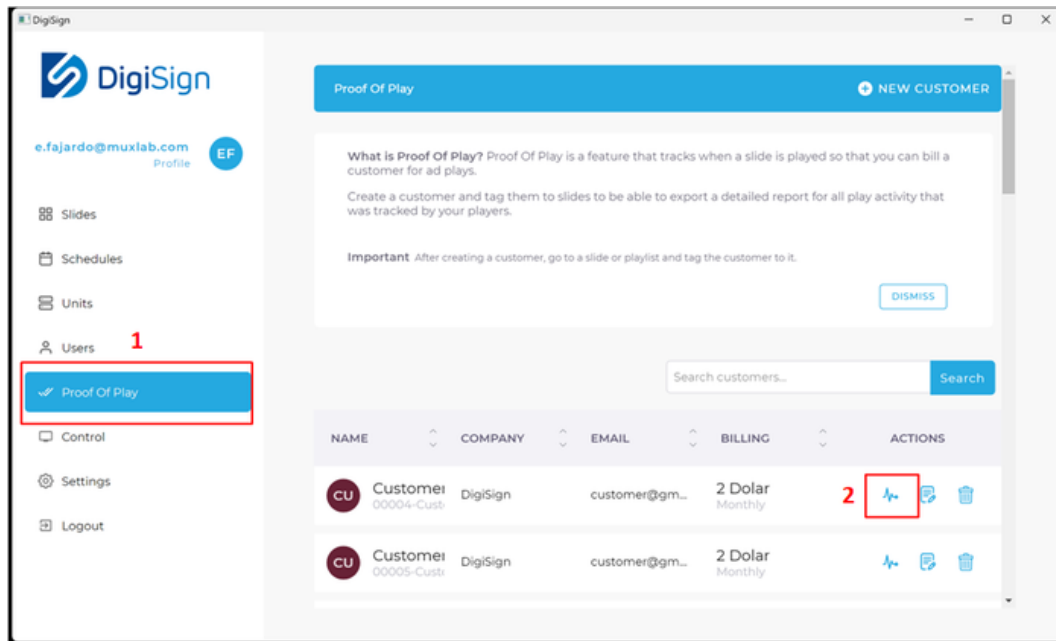
1. Open a slide and click on the extension menu
2. Click "Add Tags"
3. Select a tag from the list
6. Click "SAVE" to confirm



3.8.3 Generate a Report

Follow the steps below to generate a report for a specified customer/tag

1. Click "proof of play"
2. Click the icon for a tag
3. Input your period of interest and report type (summary or detailed)
4. Click "generate" to create a report



3.9 Control

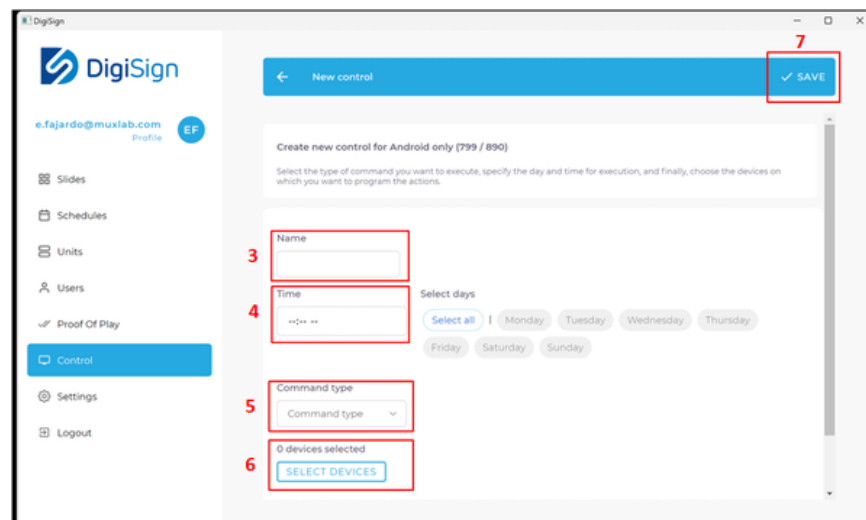
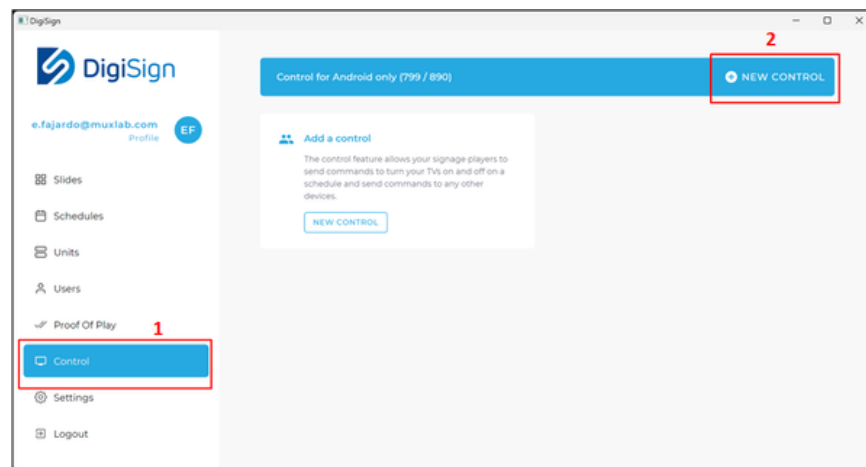
The control feature allows your signage players to send commands to turn your TVs on and off on a schedule and send commands to any other devices.

3.9.1 Creating a New Control

Select the type of command you want to execute, specify the day and time for execution, and finally, choose the devices on which you want to program the actions.

Steps to create a new control:

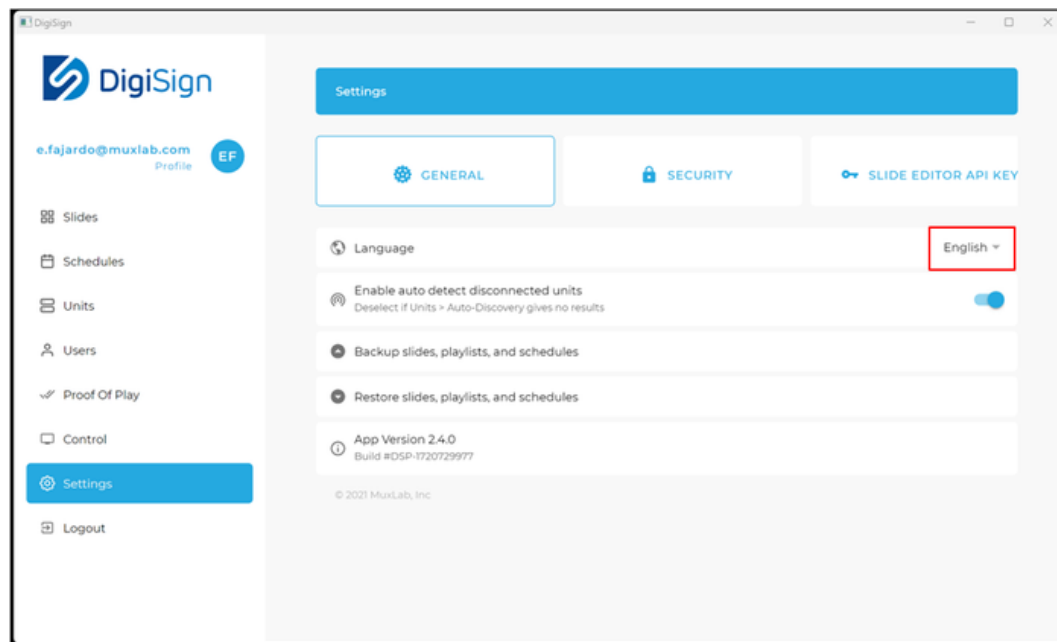
1. Click "Control" on the far left of the main page.
2. Click on "NEW CONTROL".
3. Input the command name.
4. Specify the day and time of execution.
5. Select the type of command.
6. Select the device you want to send the command to..
7. Click "SAVE" to confirm.



3.10 Settings

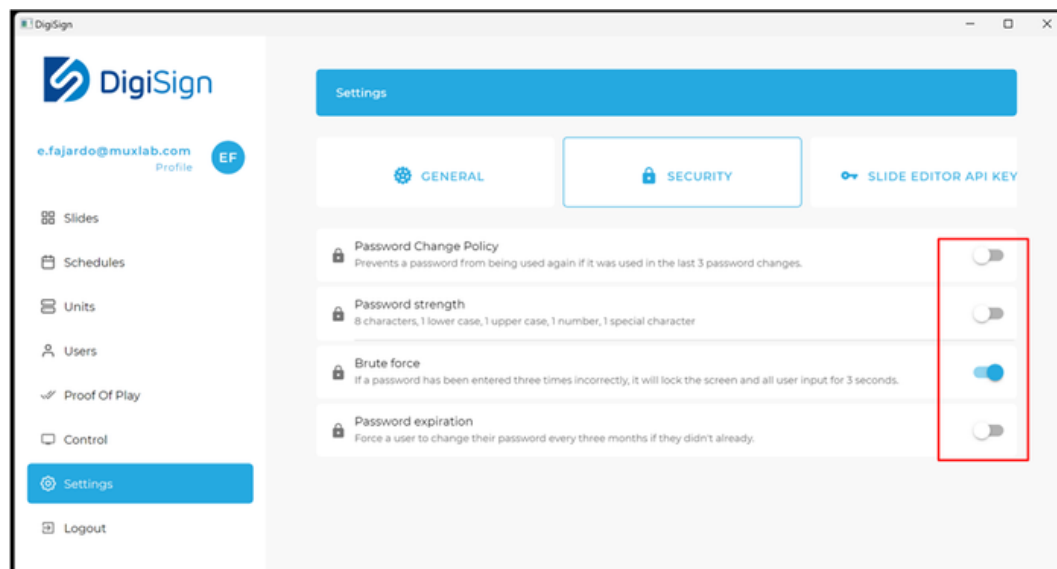
3.10.1 General

The user can select the DigiSign Software language. Simply go to the "Settings" page, click "general" and click on "Language", and then select the language from the list provided. New languages will be added as new releases are made available. In addition to the language setting, there is a backup/restore feature.



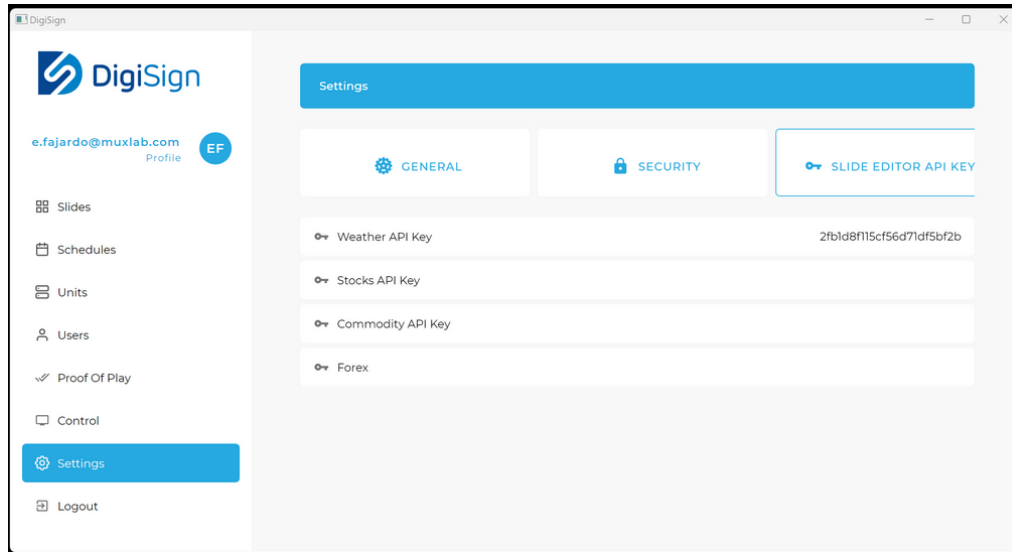
3.10.2 Security

User password rules can be configured.



3.10.3 Slide Editor API Key

These API keys are for different widgets that need API keys. User can find the instructions for each key inside the widget the first time they use that widget. Example, first time using Weather widget will give instructions on how to get an API key for the Weather widget.



4. Troubleshooting

The following table describes some of the symptoms, possible solutions regarding the DigiSign Software.

symptom	Probable cause	Possible solution
No video output from Signage Player	- No valid schedule loaded - Playlist/slide not added to the schedule - If live stream being used, streaming server may be down - No default slide configured - Unsupported stream format	Setup and publish a valid schedule to Player Ensure a playlist/slide is added to the schedule Ensure stream is valid Config a default slide to avoid a blank screen Currently supports YouTube/vimeo, RTSP and HLS
Output screen is blank	The Player may not be connected to the network	Connect the Player to the Ethernet network

Unable to add or find a Signage Player	• Signage Player is in a different subnet • Bonjour protocol may not be installed • Message saying to Recover Unit	Validate the IP address of the Signage Player Ensure that the Bonjour protocol is installed. Refer to the 3.4.5 section
Not able to publish a schedule to a Signage Player	• Schedule period conflict • Start of schedule occurs too soon after publishing • Schedule start and end time (duration) is less than 30 seconds • Signage Player not ready	Ensure schedule does not have overlapping schedules Ensure the start of the schedule occurs at least 5 minutes in advance of publishing Ensure slide/playlist has minimum of 30 seconds duration Ensure that the player is powered up and ready
Login fail	Wrong user/password	Recall username / password from window credentials manager, or uninstall/reinstall CMS