

IOT DIGITAL SIGNAGE

Quick Start Guide

ABSTRACT

Remotely create, send, and display messages to televisions or other HDMI supported gadgets anywhere within your enterprise Wi-Fi network. Scheduling, targeting and managing your Playlists on your gadget kiosks are made easy.

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DOCUMENT HISTORY

Date	Version	Particulars
02/26/2018	1.0	Created quick start guide
03/23/2018	1.1	Changed content as per the new user interface

1. Introduction

This is a quick start guide used to develop a digital signage content management application with customer interaction. A smart Digital Signage Stick (OEM) communicates with platform and the signage content is displayed remotely from the content manager application. The digital signage content is controlled and monitored centrally by the content manager application.

Digital signage are displays which use technologies such as LCD, LED and projection to display content such as digital images, videos, streaming media, web pages, weather data, restaurant menu, or text. They can be found in public spaces, transportation systems, stadiums, retail stores, hotels, restaurants, corporate buildings and so on to provide outdoor advertising.

1.1. Purpose of this document

The purpose of this document is to help you to remotely create, send, and display messages on televisions or other HDMI capable displays anywhere in your enterprise wi-fi network. The application provides basic interfaces to Create, Schedule, Target, Manage, and Publish the content on your device kiosks.

1.2. Definitions and Abbreviations

Terms	Definitions
Devices	Devices are HDMI IoT sticks, which are plugged into components such as monitors, projectors or televisions, positioned at places that display Content within a Playlist.
Device	Device Group is a group of devices that are categorized in two levels, Parent Group
Group	and Sub Group.
Content	Content is your message or information on billboards which is displayed on
	Devices positioned at places within a Playlist.
Playlist	A Playlist is a group with one or more Devices at each location, which displays one
	or more Content on Devices.
Admin	Admin is used to customize settings for the users and assign roles.
Reports	A consolidated information of all components.
HDMI	High Definition Multimedia Interface

1.3.Sign-in

Navigate to http://signagedemo4.azurewebsites.net/ and sign in. Enter the following credentials:

Username: Demo
 Password: Demo

3. Click Next.



Figure 1: Sign in

1.4. Process Flow

- 1. Home
- 2. Content Select Content Template and add your Message.
- 3. Playlist- Create a Playlist and target the Content to the Devices.
- 4. Devices List of Devices located in various places.
- 5. Device Group Device Group is a group of devices that are categorized in two levels, Parent Group and Sub Group.
- 6. Admin Apply settings to a Playlist as required.
- 7. Dashboard View graph on content and playlist.
- 8. Report Generate history.

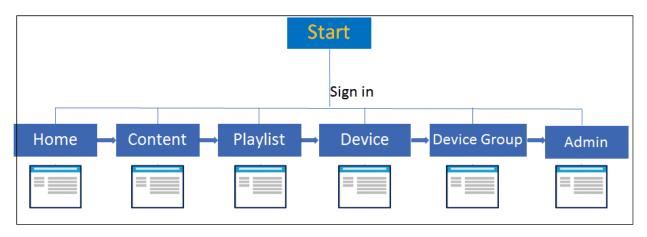


Figure 2: Workflow

1.5. Navigation



Figure 3: Main Menu

Main menu consists of following items:

- Home
- <u>Content</u>
- Playlist
- Device Group
- <u>Device</u>
- <u>Admin</u>

2. Home



Figure 4: Main menu

3. Content

Content is your messages or information on billboards and so on, which is displayed on Devices as grouped within a Playlist.

3.1. Change Role

To change role:

- 1. Select Role from the Manager Drop-down list.
- 2. Click **Preview** icon to view the Content
- 3. Click Submit.

Note: A confirmation message will be displayed on the screen.



Figure 5: Content

3.2. Manage - Upload Content

To upload Content:

- 1. Select **Content** from the main menu.
- 2. Click Manage Content for the sub menu.
- 3. Click Upload.

Note: Upload your own Content such as an image with text or select a template and create Content with the template tool.

- 4. Enter Content Name.
 - Add the name to the Content which you will add to Devices within your Playlist.
- 5. Enter **Description about the Content.**General description of your Content.
- 6. **Upload**

For Content, upload Image, Video, Web URL and Video URI (blob) located on your local drive.

7. Click Save.

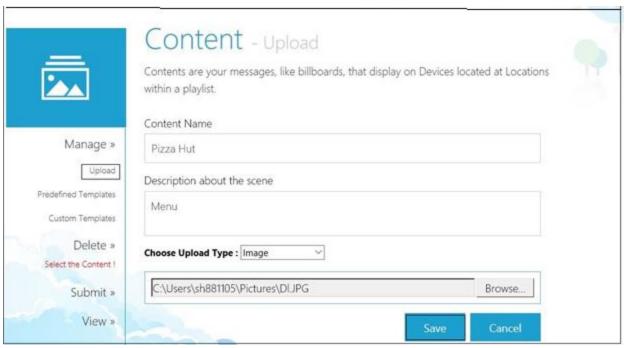


Figure 6: Upload Content

3.3. Manage – Predefined Template

To add Content:

Select Add Content > Custom Template from the sub menu.
 Note: This is your message which is composed of images and text that appear on Devices within your Playlist.

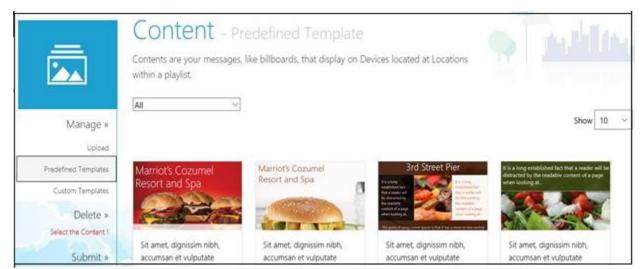


Figure 7: Content - Predefined templates

- 2. Select a template and select Click to Edit and Upload.
- 3. Select a static template to customize your image and text.
- 4. Select the **Category** from the drop-down list.

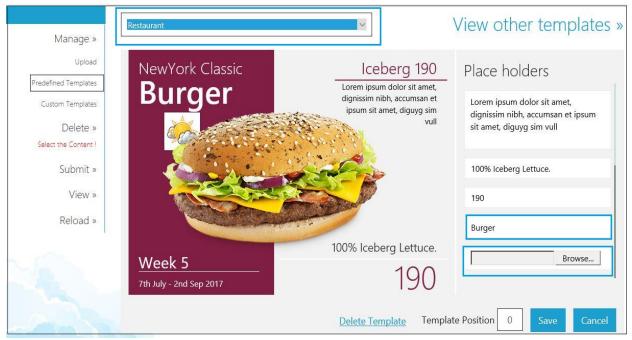


Figure 8: Customizing template

- 5. In the Place Holder section, customize the information you would like it to appear on the image.
- 6. Select the icon position. Left-Top, Left-Bottom and Right-Bottom.
- 7. Scroll down and Enter the Template Name.
- 8. Select an image and Upload using the **Browse** button.
- 9. Enter a number in **Template Position** box where you want the template to appear.
- 10. Click Save.

3.4. Manage - Custom Template

You can customize the template by selecting More Options to Create Template.

- 1. Enter a name for custom template.
- 2. Customize your Content template by selecting custom template options such as orientation (landscape/portrait) and animation.
- 3. Click Save.

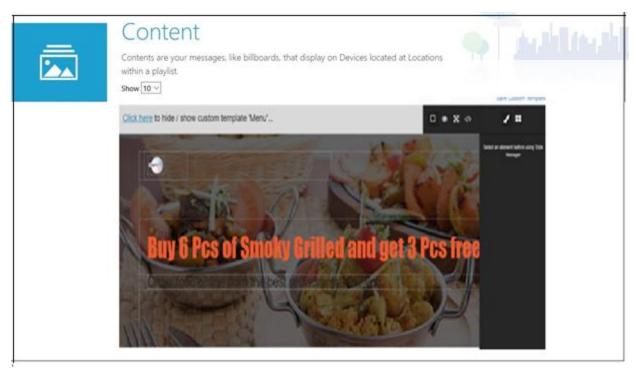


Figure 9: Custom template

3.5. Delete Content

To remove Content:

- 1. Click View from the sub menu.
- 2. Check the row which you wish to delete.
- 3. Click Delete.

Note: The screen will refresh and the selected Content is deleted.

3.6. Approve

To Approve/Reject Template:

- 1. Click **Content** for the main menu.
- 2. Click Approve/Reject.
- 3. A notification message will be displayed when the template is approved or rejected.



Figure 10: Approvals

3.7. Reload

Reload sub menu is used to refresh the Content list.

4. Playlist

A playlist is a campaign which is a collection of Contents that gets displayed through devices.

You can edit and publish the start/end date and time in the Playlist.



Figure 11: Publish Playlist

4.1. Add Playlist

To add a Playlist:

- 1. Select Playlist from the main menu.
- 2. Check one or more approved Content for your Playlist, which you wish to display on the Device.
- 3. Enter the Playlist Name from the sub menu.

Set the Start/End Date and Time (dd-yyyy) format.
 Select an image placed on your local drive to display the Content

- 5. Set the **Interval in Display Internal (in seconds).**Playlists are displayed in 3,5,10,30,60 second intervals.
- 6. Click Save.
- 7. Click Publish.

Note: Publish the Playlist. Refer to Publish for more details.

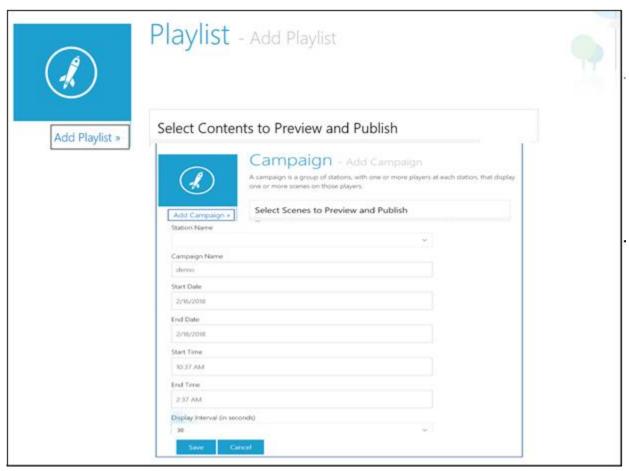


Figure 12: Create Playlist

4.2. View a Playlist

To view a Playlist:

- 1. Click Playlist.
- 2. Select **View Playlist** from the sub menu you wish to view the current and active Playlist in the list.

Note: The list is refreshed.

4.3. Publish

To publish a Playlist:

- 1. Create a Playlist.
- 2. Select Publish from the sub menu.
- Select the **Publish** icon and your Playlist is published.
 Note: This Playlist will display devices based on the predefined date, time, and frequency.

4.3.1. Unpublish Playlist

To Cancel the publishing from the list, Click Cancel to unpublish the name from the Playlist.



Figure 13: Publish Playlist

4.4. Reload

Reload sub menu is used to refresh the Playlist.

4.5. Expired List

The list which does not exist anymore.

5. Device

A Device is a HDMI IoT stick, which is plugged into components such as monitors, projectors or televisions, where Content is displayed within a Playlist.

5.1.Add Device

To add Devices:

- 1. Select **Device** from the main menu.
- 2. select Add Device from the sub menu.

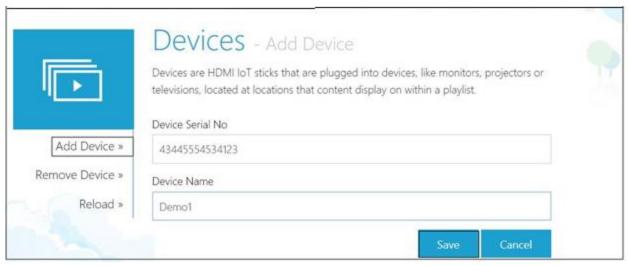


Figure 14: Device List

3. Enter Device Serial No.

Note: The product serial number is displayed at the back of the component.

4. Enter **Device Name.**Add the Device name and add/select the Content for each Device.

5. Click Save.

5.2. Reload

Reload sub menu is used to refresh the Device list.

5.3. Remove Device

To remove a Device:

- 1. Select **Device** from the main menu.
- 2. Click Remove Devices.
- 3. Check the Devices you wish to remove.
- 4. Click Remove Devices.

Note: The screen will refresh and the selected Device is deleted.

6. Device Group

Device Group is a group of devices that are categorized in two levels, Parent Group and Sub Group.

- 1. Select **Device** from the menu.
- 2. Click Device Grouping.
- 3. Create **Parent or Sub Group** from the sub menu.

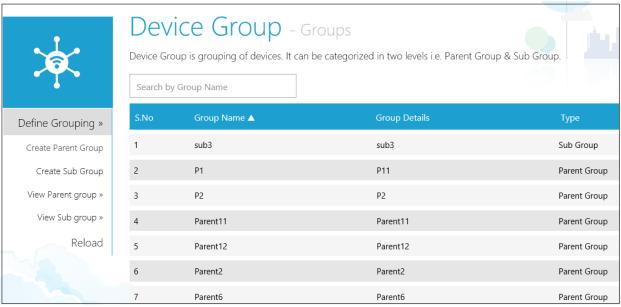


Figure 15:Device Group

6.1. Create Parent Device Group

- 1. Click Device Grouping
- 2. Select Create Parent Device Group from the sub menu.
- 3. In **Parent Group Name**, enter the name of the Device group.
- 4. In **Parent Group Description**, enter description of the Device group.
- 5. Click Save.



Figure 16: Add Parent Group

6.2. Create Sub Group

1. Click Device Grouping

- 2. Select **Create Sub Group** from the sub menu.
- 3. In **Sub Group Name**, enter the name of the Device group.
- 4. In **Sub Group Description**, enter description of the Device group.
- 5. Click Save.

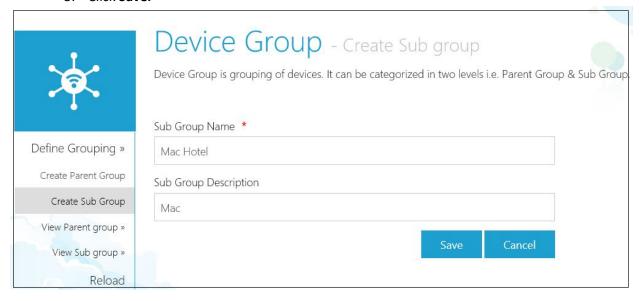


Figure 17: Add Sub Group

6.3. Assign Parent Devices

- 1. To select Devices, drag the Devices from **List Available** column and drop to the **List Selected** column.
- 2. Click Save.



Figure 18: Assign Device

6.4. Assign Sub Devices

- 1. To select Devices, drag the Devices from **List Available** column and drop to the **List Selected** column.
- 2. Click Save.

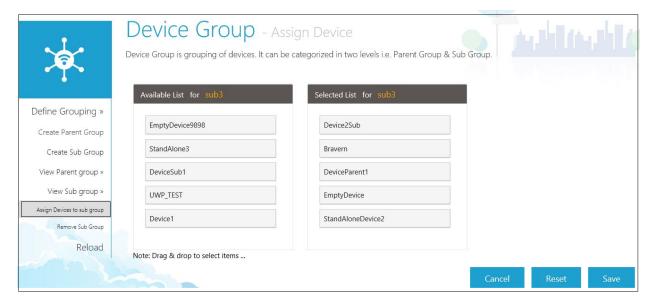


Figure 19: Assign Devices

6.5. Remove Device Group

To remove a Device:

- 1. Click Device Grouping
- 2. Select **Device** from the main menu.
- 3. Click Remove Devices.
- 4. Check the Devices you wish to remove.
- 5. Click Remove Devices.

Note: The screen will refresh and the selected Device is removed.

6.6. Reload

Reload sub menu is used to refresh the Device list.

7. Admin

In Admin, you can select and modify User Roles and Approvals for your Playlist.

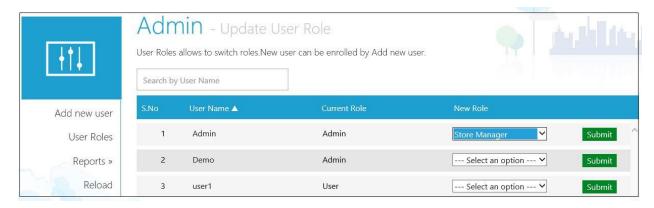


Figure 20: Admin

- 1. Select Admin from the main menu.
- 2. To define user roles, click **User Roles** from the sub menu.
- 3. Select the role by clicking the **New Role** drop-down list.
- 4. Click **Submit**

Note: A confirmation message will be displayed as User details updated successfully.

Figure 21: Settings

User roles allow you to switch roles. Approvals are required to qualify the Content for a Playlist.

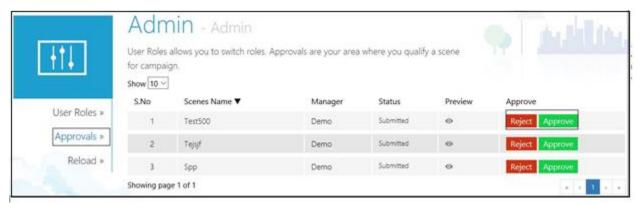


Figure 22: Approve/Reject user roles

In Approvals sub menu, click **Approve** or **Reject** to approve or reject a user from the Playlist. **Note:** A confirmation message is displayed depending on the response selected.

7.1.Add User

To add a new user:

- 1. Click Admin from main menu.
- 2. Click Add new user
- 3. Enter email address.
- 4. Enter Password.
- 5. Click Submit.

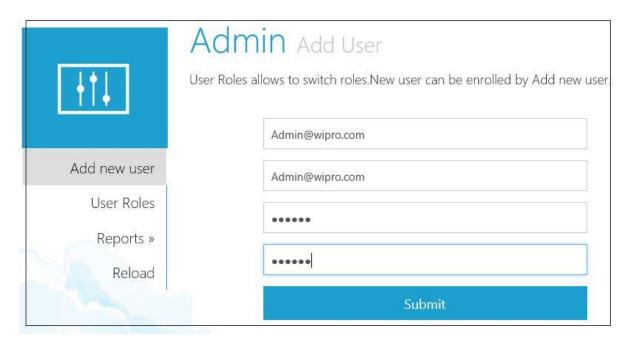


Figure 23: Add User

7.2. Reload

Reload submenu is used to refresh the roles either after assigning user roles or approving/rejecting the roles for a Playlist. Click **Reload**.

8. Reports

Reports are generated to provide history based on Playlist and Device details. A detailed view of Playlist name, Content name, Device name, start/end date and time and status is displayed in the report. Report Menu is located in Admin menu.

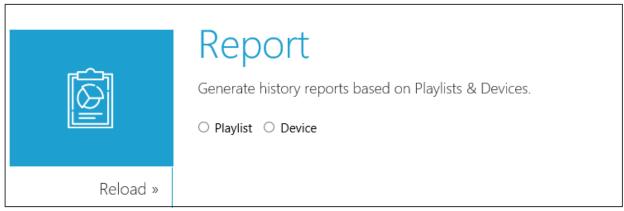


Figure 24: Reports

8.1. Download Report

Click the icon to download the report.

8.2. Playlist wise reports

To generate the Playlist wise report, do the following:

- 1. Click **Playlist** radio button.
- 2. Enter the **Start Date** from the drop-down.
- 3. Enter the **End Date** from the drop-down.
- 4. Click **Show Report**.

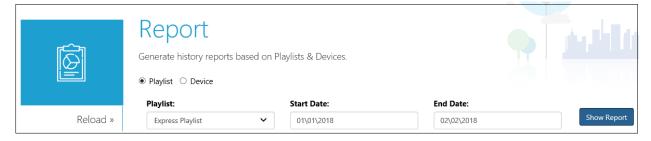
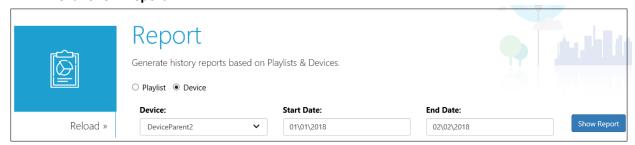


Figure 25: Playlist wise report

8.3. Device wise reports

To generate the Device wise report, do the following:

- 1. Click **Device** radio button.
- 2. Enter the **Start Date** from the drop-down.
- 3. Enter the **End Date** from the drop-down.
- 4. Click **Show Report**.



8.4. Download Report

Click the icon to download the report.

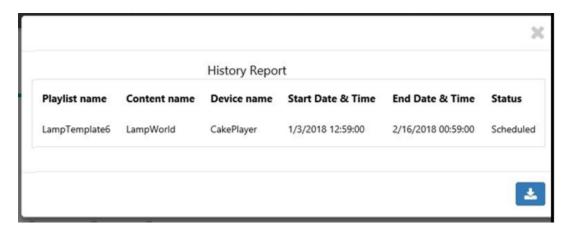


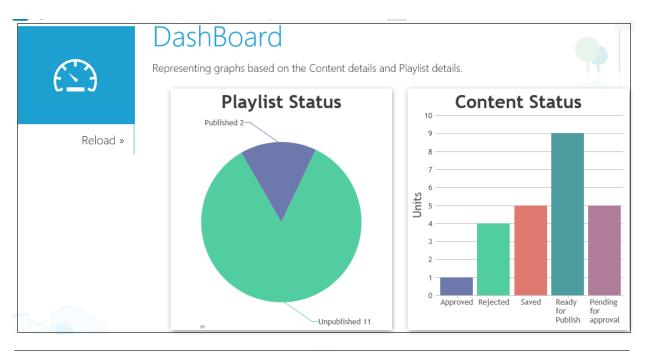
Figure 26: Report

8.5. Reload

Reload submenu is used to refresh the Device and Playlist list.

9. Dashboard

Dashboard provides at-a-glance view of the Content and Playlist details. A detailed status of rejected, approved, saved, scheduled and published Content is displayed in the graph. Representing graphs based on the Content details and Playlist details. The dashboard menu is located in Admin<Reports<Dashboard.



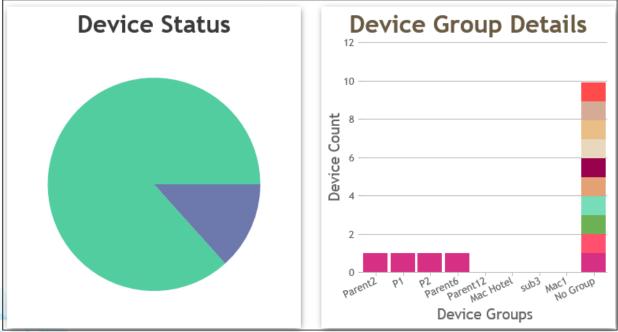
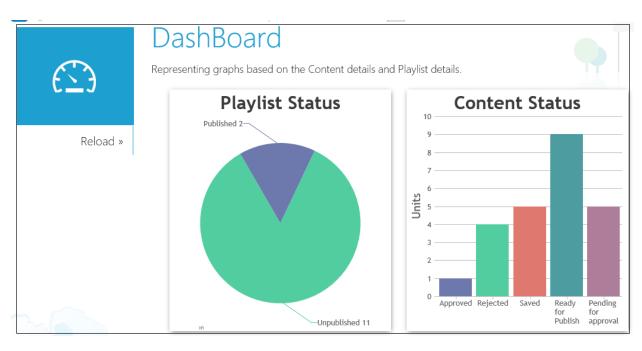


Figure 27: Dashboard

9.1. Reload

Reload sub menu is used to refresh the dashboard if any changes are made. The following graph is based on Content, Device and Playlist details:



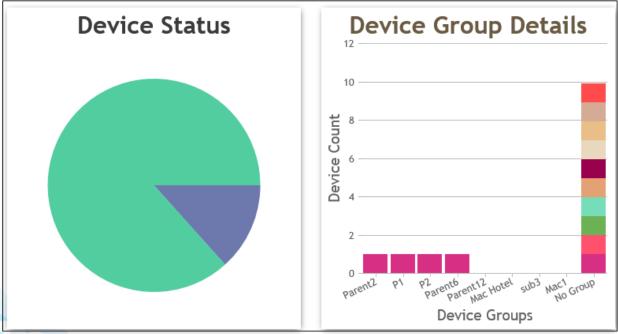


Figure 28: Dashboard