OPS-DRD : Signage Manager Application

Users Manual

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Technovare SYSTEMS, INC.

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- Description of installed software
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- A complete description of the problem
- The exact wording of any error messages

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Application Overview

The Signage Manager application is an Android application designed to compliment Technovare Systems OPS-DRD Android Media Player. It provides media playback and basic content management facilities including playlist creation and scheduling.

The table below provides an overview of the application capabilities.

SIGNAGE MANAGER APPLICATION OVERVIEW		
#	**ITEM**	**DESCRIPTION**
1	Product Type	Android Application
2	Operating System	Android 4.2.2
3	Application Type	Media Player with content management (CMS) features
4	Supported Video Formats	Same as current Media Player H.263, H.264, MPEG4, MPEG2, MPEG1, WMV, VC1, AVI
5	Supported Audio Formats	Same as current Media Player AAC, AC-3, PCM, MP3, WMA, WAV
6	Supported Image Formats	Same as current Gallery jpg, gif, bmp
7	Playback Features	Screen Modes : [1] Full Screen, [2] Stretch [3] 1:1 Standard Playback controls (auto hide) Playback of a playlist Auto Start of App upon unit power ON - Enable/Disable via App Settings Auto Play scheduled content upon application start - If no scheduled content play default creative
8	CMS Features	Playlists (create, delete, edit, maxEntries = 50, entryDuration) - Ordered Playback - Shuffled Playback Scheduler : Ability to schedule file/playlist playback - Scheduled Year/Month/Day/Time - Repeat (daily, weekly, start/stop date)
9	Content Sources	Internal Flash, USB, SD Card

Application Installation / Launch

The Signage Manager application consists of a single file named : SignageManager.apk

Install Using External Media

1. Copy application file, SignageManager.apk, to a USB/SDCard media device.
2. Insert the USB/SDCard into a powered OPS-DRD Media Player.
3. Using the File Manager application, navigate to USB/SDCard folder that contains the SignageManager.apk file.
4. Using the mouse, select the SignageManager.apk file to begin installation.
5. The following installation pop-up will appear:

6. Click [Install] button to continue with installation.
7. When installation is complete the following pop-up will appear:

8. Click the [Done] button to return to the File Manager. At this point, Signage Manager has been successfully installed on the system. The following application icon will now appear on the OPS-DRD All Apps screen.

Note: Clicking the [Open] button will launch the Signage Manager application.

Launching the Application

1. From the All Apps screen use the mouse to click on the Signage Manager icon.
2. The application will launch and begin displaying its current Default Creative shown below.

Signage Manger Default Creative

Application User Interface

The Signage Manager application consists of several screens to implement its functionality. The following screens are included in the application:

Screen Name	Description
Home	Main screen of application
Playlists	Lists all defined Playlists
Playlist Edit	Allows editing of a playlist
Creative Edit	Allows editing of a creative
Schedule	Lists all playlists that have been scheduled
Schedule Edit	Allows editing of a playlists schedule
Help	Provides context aware application help

Below is a diagram that depicts the GUI transitions between these screens.

Signage Manager Screen Transitions

Home Screen

When Signage Manager is launched it will present the user with the Home Screen. While at the Home Screen, the application will always be playing back either the default creative or a scheduled playlist.

The Home Screen contains a menu bar at the top of screen that is accessible by clicking the left mouse button. The image below shows the Home Screen with top menu bar that is playing the Default Creative.

Home Screen With Top Menu Bar

The top menu navigation bar icons have the following meanings.

	Goto Playlists Screen		Goto Schedule Screen
	Goto Settings Screen		Goto Help Screen

Settings Screen

When the settings icon, , is selected from the Home Screen the application will display the Settings Screen as shown below. The Settings Screen allows the configuration of 2 items:

1. Auto Start of App
2. Default Creative

Changes to configuration settings will take place when the save icon, , is selected.

Startup : The application is able to be automatically launched upon booting of device.

- Check Auto Start Playback checkbox to auto start Signage Manager upon device boot.

Default Creative : The Default Creative will playback whenever there are either no default playlists defined OR no playlists are currently scheduled for playback.

- Use the browse icon, , to navigate the file system and locate a default creative.

Settings Screen

Playlists Screen

When the playlists icon, , is selected from the Home Screen the application will display the Playlists Screen as shown below. The Playlists Screen displays the current list of defined playlists. The listing for each playlist consists of a Name, Duration, Sequence and Actions field. In addition, an optional Global Default icon, , may appear to the left of a playlist. This indicates that this playlist is configured as the Default Playlist and will be played back when nothing is currently scheduled.

The Name and Duration fields list the playlist name and total duration of the media content within the playlist.

The Sequence field defines the playback order of the playlist. Signage Manager supports both Ordered and Shuffle playback of the media content within a playlist.

The Actions field contains an Edit icon, , as well as a delete icon, . Clicking the Edit icon of a playlist will cause the Playlist Edit Screen to be displayed. Clicking the Delete icon will prompt the user to delete the playlist.

Playlists Screen

The Playlists Screen top menu navigation bar icons have the following meanings.

+	Add Playlist	?	Help Screen

Clicking the Add Playlist icon will display a blank Playlist Edit Screen which allows the user to create a new playlist.

Playlists can be ordered on the Playlist Screen by drag and drop operations. The order in which the playlists are listed has no operational significance and simply serves to allow the user control over the order of the list.

Playlist Edit Screen

The Playlist Edit Screen has two (2) basic appearances depending on whether a new playlist is being defined or an existing playlist is being edited.

Both versions of the Playlist Edit Screen contain a top menu navigation bar with icons that have the following meanings.

	Add Creative		Save Playlist		Help Screen

When the Add Playlist icon, , is selected from the Playlists Screen the application will display the Playlist Edit Screen as shown below for new playlists. This screen allows the user to enter a playlist Name, configure either Ordered or Shuffled playback Sequence and select whether this playlist is the global Default Playlist.

To add creatives to the Playlist, click the Add Creative icon on the top navigation bar, . This will cause the Edit Creative Screen to be displayed.

Playlist Edit Screen – New Playlist

When the Edit Playlist icon, , is selected from the Playlists Screen the application will display the Playlist Edit Screen as shown below for existing playlists. This screen allows the user to modify a playlist Name, configure either Ordered or Shuffled playback Sequence and select whether this playlist is the global Default Playlist.

The Playlist Edit Screen displays the list of creatives defined for the current playlist. The listing for each creative consists of a Name, Duration, Format, Width, Height, Scaling and Actions fields.

The Name and Duration fields list the creative name and total duration the creative will playback.

The Format field defines whether the creative is a Video or Image.

The Width and Height fields provide the creative native dimensions measured in pixels.

The Scaling field indicates how the creative will be displayed. Signage Manager supports Fill Screen, Fit Screen and 1:1 Native Scaling options.

The Actions field contains an Edit icon, , as well as a delete icon, . Clicking the Edit icon of a playlist will cause the Creative Edit Screen to be displayed. Clicking the Delete icon will prompt the user to delete the creative.

To add creatives to the Playlist, click the Add Creative icon on the top navigation bar, .. This will cause the Browse for Creative Screen to be displayed which allows the user to navigate internal and external (USB / SDCard) memory storage and select a creative. Once a creative is selected, the Creative Edit Screen will be displayed.

Note that once a creative has been selected from a specified memory storage source, the location of the creative must not change. If the location does change, Signage Manager will prompt the user with a warning during playback and continue playing the next available creative in the playlist.

Creatives can be ordered on the Playlist Edit Screen by drag and drop operations. The order in which the creatives are listed determines their playback order when the Sequence field is set to Ordered.

To save changes made to a playlist, click the Save Playlist icon, ..

Playlist Edit Screen – Existing Playlist

Creative Edit Screen

The Creative Edit Screen has two (2) basic appearances depending on whether the creative format is a Video or an Image.

Both versions of the Creative Edit Screen contain a top menu navigation bar with icons that have the following meanings.

When a Video creative has been selected from the Browse for Creative Screen the Creative Edit Screen will display as shown below. A preview video will be displayed along with several fields.

The Name field is a user editable field containing the name of the creative. For new creatives, this field is pre-populated with the file name of the creative.

The URI field contains the source location URI for the creative. This field can not be modified.

The Duration field is a non-editable field containing the duration of the video creative. For new video creatives, this field is pre-populated with the full duration of the creative. The Cue In and Cue Out slider controls allow the user to change when a video starts and ends in relation to its entire duration. The duration field will be automatically update based on changes from the Cue In/Out controls.

The Scaling field allows the user to select either: 1) Fill Screen, 2) Fit Screen or 3) 1:1 Native scaling options.

To save changes made to a creative, click the Save Creative icon, ..

Creative Edit Screen - Video

When an Image creative has been selected from the Browse for Creative Screen the Creative Edit Screen will display as shown below. A preview image will be displayed along with several fields.

The Name field is a user editable field containing the name of the creative. For new creatives, this field is pre-populated with the file name of the creative.

The URI field contains the source location URI for the creative. This field can not be modified.

The Duration field is a user editable field containing the duration of the image creative. For new video creatives, this field is pre-populated with a duration of 20 seconds.

The Scaling field allows the user to select either: 1) Fill Screen, 2) Fit Screen or 3) 1:1 Native scaling options.

To save changes made to a creative, click the Save Creative icon, .

Creative Edit Screen - Image

Schedule Screen

When the schedule icon, , is selected from the Home Screen the application will display the Schedule Screen as shown below. The Schedule Screen displays the current list of playlists that are scheduled.

The listing for each playlist consists of a Name, Duration, Start Date, End Date, Start Time, End Time, Days of the Week, Status and Actions fields. All these fields are non-editable from this screen.

The Name and Duration fields list the playlist name and its total duration.

The Start/End Date fields define the calendar date range for which the playlist is scheduled.

The Start/End Time fields define the time of day range for which the playlist is scheduled.

The Days of the Week field defines the days of the week the playlist is scheduled.

The Status field indicates whether the playlist is Active or In-Active.

The Actions field contains an Edit icon, , as well as a delete icon, . Clicking the Edit icon of a playlist will cause the Schedule Edit Screen to be displayed. Clicking the Delete icon will prompt the user to delete the playlist from the schedule. Note that this will not delete the playlist from the Playlists Screen.

To add playlists to the Schedule, click the Add Playlist icon on the top navigation bar, . This will cause the Schedule Edit Screen to be displayed.

The Schedule Screen contains a top menu navigation bar with icons that have the following meanings.

	Add Playlist to Schedule		Help Screen

Schedule Screen

Playlists can be ordered on the Schedule Screen by drag and drop operations. The order in which the playlists are listed determines their playback order in the event that playlist scheduling overlaps. Thus, if playlist ONE and playlist TWO are both scheduled for the same time and playlist TWO appears above playlist ONE on the Schedule Screen, playlist TWO will be scheduled for playback first. When playlist TWO completes playback, playlist ONE will playback.

Schedule Edit Screen

The Schedule Edit Screen has two (2) basic appearances depending on whether a new playlist is being scheduled or an existing scheduled playlist is being modified.

Both versions of the Schedule Edit Screen contain a top menu navigation bar with icons that have the following meanings.

In addition, both versions the Schedule Edit Screen have the same fields. The only difference is that for a new playlist to be scheduled, the fields are set to default values, whereas for an existing playlist the fields are populated with current values from the schedule.

The Schedule Edit Screen for the playlist consists of Playlist, Start Date, End Date, Start Time, End Time, Days of the Week and Status fields.

The Playlist field is a dropdown list that contains all defined playlists. Select the playlist to edit.

The Start/End Date fields define the calendar date range for which the playlist is scheduled. Selecting the calendar icon, , will display a popup calendar from which the user can select the Start/End Dates.

The Start/End Time fields define the time of day range for which the playlist is scheduled. Selecting the clock icon, , will display a popup time selection window from which the user can select the Start/End Times.

The Days of the Week field defines the days of the week the playlist is scheduled. It consists of a series of checkboxes, one per day of the week, from which the user can select.

The Status field indicates whether the playlist is Active or In-Active. An Active playlist is one that is scheduled to playback, an In-Active one will not playback. This allows the user to have seasonal playlists on the schedule and make them in-active.

To save changes made to a creative, click the Save Creative icon, ..

Schedule Edit Screen

When a Schedule for a Playlist is being saved, a check for a scheduling overlap is performed. A warning will be displayed as shown below when ALL of the following conditions are true:

1. Start/End Date range overlaps with any previous scheduled active playlist.
2. Start/End Time range overlaps with any previously scheduled active playlist.
3. Days of Week overlaps with any previously scheduled active playlist.

Schedule Overlap Warning

Note that the algorithm used to detect overlaps may provide a false-positive warning. That is, the algorithm may warn the user of overlap when an overlap does not exist. All actual overlaps will, however, result in a warning notification to the user.

Clicking [No] button will allow the user to modify the schedule to avoid the conflict.

Clicking [Yes] button will save the playlist to the schedule.

In the event of an overlap in the schedule, Signage Manager will playback the overlapping playlists in the order they appear on the Schedule screen.

Operating Instructions

Creating a New Playlist

1. Navigate to the Playlists Screen.
2. Click Add Playlist icon, , on top navigation bar.
3. On Playlist Edit Screen
    a. Enter Playlist Name
    b. Click Add Creative icon, , on top navigation bar.
    c. Browse memory storage and select creative.
4. On Creative Edit Screen
    a. Enter Creative Name
    b. Select Creative Duration
    c. Select Creative Scaling option.
    d. Click save icon, , on top navigation bar.
5. On Playlist Edit Screen
    a. Select Playlist Sequence.
    b. Select whether Playlist is Default or not.
    c. Click save icon, , on top navigation bar.
6. Repeat step 3b thru 5c to add additional creatives.

Editing an Existing Playlist

1. Navigate to the Playlists Screen.
2. Click Edit Playlist icon, , to the right of a playlist.
3. On Playlist Edit Screen
    a. Change Playlist Name if desired.
    b. Click Add Creative icon, , on top navigation bar.
    c. To delete a creative, click the delete icon, , to the right of the creative.
    d. To edit a creative, click the edit icon, , to the right of the creative.
    e. Use drag/drop to re-order creatives as desired.
    f. When all changes have been made, click the save icon, , on the top navigation bar.

Deleting a Playlist

1. Navigate to the Playlists Screen.
2. Click Delete Playlist icon, , to the right of the playlist to delete.
3. At the Playlists Delete prompt, click [YES].

Scheduling a Playlist

1. Navigate to the Schedule Screen.
2. Click Add Schedule icon, , on top navigation bar.
3. On Schedule Edit Screen
    a. Select Playlist to schedule from drop down.
    b. Set Start/End Dates by clicking on calendar icons, .
    c. Set Start/End Times by clicking on clock icons, .
    d. Set Days of the Week by checking appropriate days.
    e. Select whether the playlist is Active or In-Active.
    f. When all changes have been made, click the save icon, , on the top navigation bar.

Editing the Schedule

1. Navigate to the Schedule Screen.
2. Click Edit Schedule icon, , to the right of the playlist in the schedule that you want to edit.
3. On Schedule Edit Screen
    a. Change Start/End Dates by clicking on calendar icons, .
    b. Change Start/End Times by clicking on clock icons, .
    c. Change Days of the Week by checking appropriate days.
    d. Select whether the playlist is Active or In-Active.
    e. When all changes have been made, click the save icon, , on the top navigation bar.

Deleting a Playlist from the Schedule

Note : Deleting a playlist from the schedule will not delete it from the Playlists Screen.

1. Navigate to the Schedule Screen.
2. Click Delete Playlist icon, , to the right of the playlist to delete.
3. At the Playlists Delete prompt, click [YES].

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