

DIRECTV RESIDENTIAL EXPERIENCE PLUS

GUEST WELCOME SCREEN CONFIGURATION TOOL

U S E R G U I D E



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1. Introduction

The DRE Guest Welcome Screen is an onscreen portal that allows a hotel to bring customized information and personalized messages directly to the hotel guest through a television. Each hotel's Guest Welcome Screen can be designed to reflect the character of the hotel. This document instructs a hotel administrator or a DIRECTV dealer how to program and design the Guest Welcome Screen to match the needs of the hotel property by using the DRE Guest Welcome Screen Configuration Tool system.

There are many options available to customize the Guest Welcome Screen: icons are chosen to represent the applications available on the screen, weather and logos at the top of the screen are programmed to give property-specific information and the banner space at the bottom can be used by the property for its own self-promotion purposes.

The Configuration Tool system provides the following functionality:

- Dashboard view—Displays the current Guest Welcome Screen setup, providing a preview of the Guest Welcome Screen and the configured options chosen for the Guest Welcome Screen.
- Layout management—Contains previously created layouts of the Guest Welcome Screens, which can be republished.
- Layout creation/editing—Allows for the creation of a new Guest Welcome Screen for customization and/or the ability to edit an existing Guest Welcome Screen.
- App configuration management—Lists all the customizations of all the registered customizable apps.
- App configuration creation/edition—Allows for the creation of a new configuration for an app and/or the ability to edit an existing configuration.
- Administration—Allows for configuration of global settings for the system, as well as the ability to manage and update apps.

2. DRE Guest Welcome Screen Quick Install Guide

This section describes how to quickly deploy the default layout to provide the basic DRE Guest Welcome Screen functionality before further hotel customizations, planning and management, are complete.

When the MCS is updated to MCS 3.28 or higher, the DRE Guest Welcome Screen feature will initially be disabled and the DRE Guest Welcome Screen, also called the “Homepage” in the Configuration Tool, will contain a predefined default layout.

Before following the instructions in this guide, please be sure the MCS is already updated to version 3.28 or higher. Please note that if you begin, you must complete all steps in Section 2 of this guide to ensure there is a homepage available for the STB to display.

If you do not wish to deploy the basic default Guest Welcome Screen and wish to create a fully customized Guest Welcome Screen for your property, please skip to Section 3 of this Guide.

2.1 Enable the Guest Welcome Screen

To enable the DRE Guest Welcome Screen feature, log in to the MCS and navigate to the MCS Setup screen at <http://172.16.1.11/sbbmgr/setup/>. There should be a new Homepage tab. Click on the Homepage tab to see the screen as shown below:

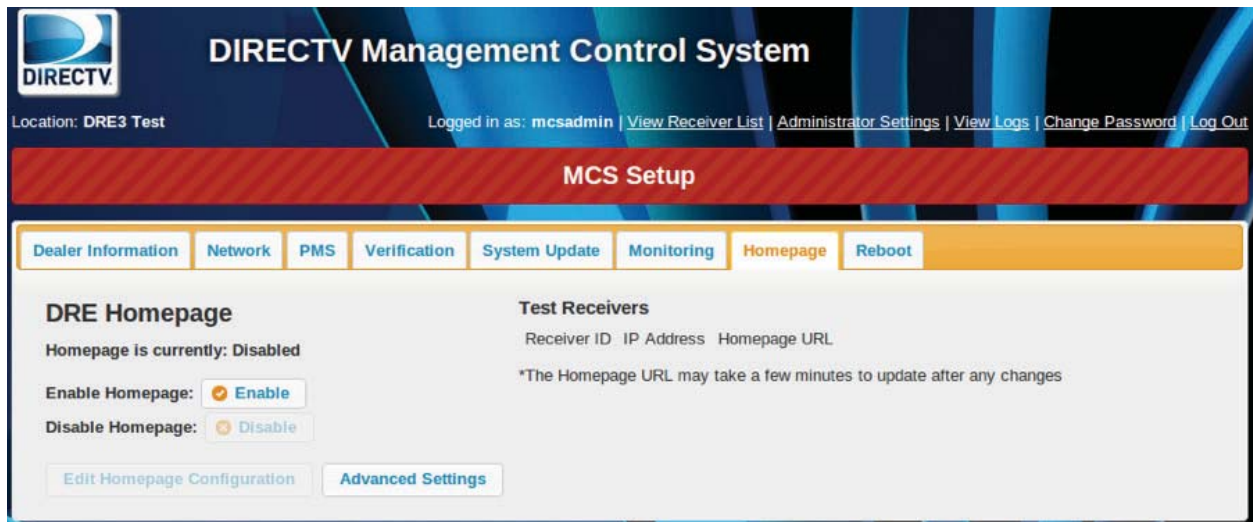


Figure 1: DIRECTV Residential Experience Homepage Enable

By default, the Homepage feature is disabled. Click on the Enable button to enable the feature.

At this point, you must complete the rest of the steps in this guide to ensure that there is a Homepage ready on the MCS for the STBs to display.

2.2 Enter the Guest Welcome Screen Homepage Configuration Tool

Once you click Enable, you can enter the Homepage Configuration Tool by clicking the Edit Homepage Configuration button at the bottom of the screen.

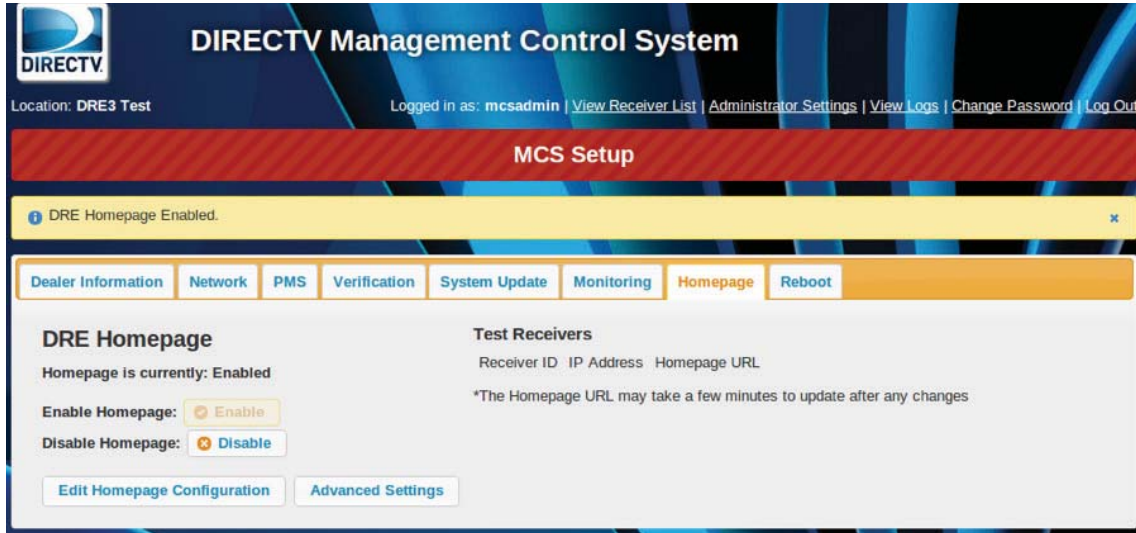


Figure 2: Enter the Homepage Configuration Tool

The Homepage Configuration Tool will initially display this screen, showing there is a DIRECTV Default Layout ready for publishing.

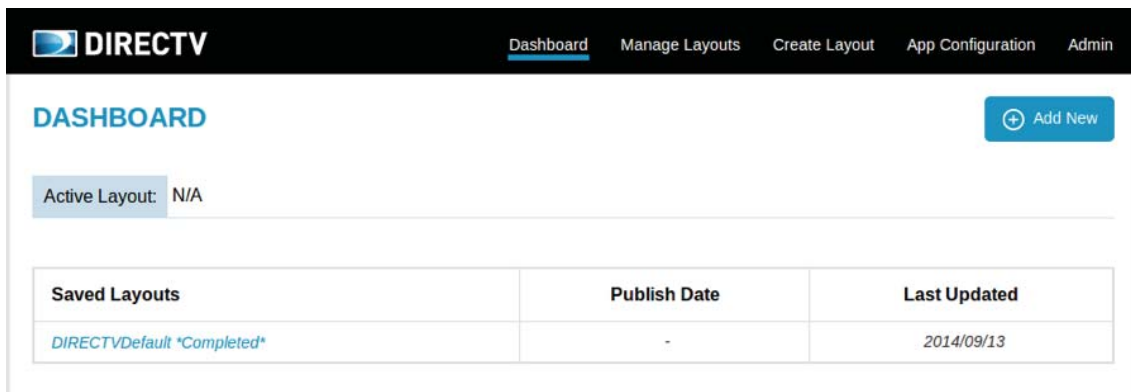


Figure 3: Publish DIRECTV Default Layout

Click on the “DIRECTVDefault *Completed*” Saved Layout to review and publish it.

2.3 Review and Publish the Layout

When reviewing the DIRECTV Default Layout, you may want to add some simple customizations. It may be desirable to update the Welcome Text with the Hotel Name to say “Welcome to <Hotel>.” Be aware there is a 32-character limit.

Figure 4: Edit layout

Once you are done reviewing, click the blue Publish button at the top-right corner.

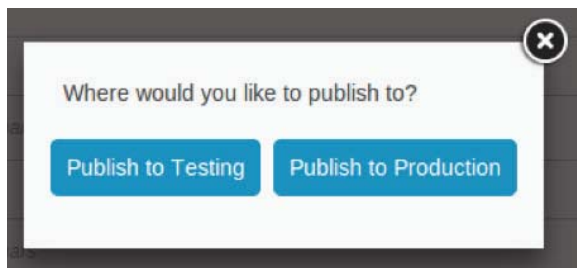


Figure 5: Publish to Production Option

Finally, click Publish to Production button to complete the initial installation of DRE Homepage.

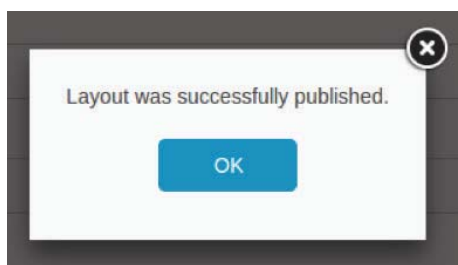


Figure 6: Successfully published

3. Full Customization of DRE Guest Welcome Screen

The DRE Guest Welcome Screen is intended to provide the hotel with customized features to highlight the services and amenities of the property.

3.1 Create a Fully Customized Guest Welcome Screen Layout

This section describes how to create a fully customized Guest Welcome Screen. In order to do this, you will need to prepare these items beforehand:

1. Property Logo (181 x 72 px)
 - a. PNG is preferred due to transparency support
 - b. A Property Logo is required for every Layout and App configuration
2. Discussion with hotel management to determine content of Hotel Information Screen
 - a. Images for the Hotel, Gym, Spa, etc. are useful
3. Determining Internet connectivity for the site
 - a. Used to enable Weather & ScoreGuide™ features

3.2 Create New Layout

To create a new layout, click the Create Layout menu item.

The screenshot shows the 'CREATE NEW LAYOUT' interface. At the top, there's a navigation bar with 'Dashboard', 'Manage Layouts', 'Create Layout' (highlighted), 'App Configuration', and 'Admin'. Below the navigation bar, the title 'CREATE NEW LAYOUT' is displayed. To the right of the title are 'Back' and 'Save' buttons. The form contains the following fields and sections:

- Layout Name ***: A text input field with placeholder text 'Enter name'.
- Description**: A text input field with placeholder text 'Description (Optional)'.
- Dashboard Information**: A section header.
- Enable weather information**: A checkbox.
- A greeting message for the user. Add the guest's name with %guest%.**: A text input field with placeholder text 'Enter A greeting message for the user. Add the guest's name with %guest%.' and a note 'Max length: 32 chars'.
- A greeting message if the guest name is unavailable.**: A text input field with placeholder text 'Enter A greeting message if the guest name is unavailable.' and a note 'Max length: 32 chars'.
- Hotel logo image**: A section with a 'Choose File' button, 'No file chosen' text, and specifications: 'Dimension : 181 x 72', 'Max file size : 25 KB', and 'Acceptable Formats : JPG, PNG, GIF'.

Figure 7: Create Layout Menu Item

Enter in a Layout Name as well as a description. It is recommended that the date is included in the Name or Description.

To enable weather to appear in the top-left corner, check to Enable weather information. Enter in the ZIP code, City Name and 2-letter State abbreviation.

Dashboard Information

Enable weather information ☒

ZIP code for weather location
Max length: 5 chars

City display name
Max length: 20 chars

State/province abbreviation
Max length: 2 chars

Figure 8: Enable Weather Item

At the bottom, you may individually select which applications appear in each of the icon locations in the layout. You may select between 4, 6 or 8 icons by choosing the 2 x 2, 3 x 3 and 4 x 2 layouts, respectively.

Dashboard Layout

Type : ☒ 2 x 2 menu layout ☐ 3 x 2 menu layout ☐ 4 x 2 menu layout

Top left app	DRE Live TV	Default		Live TV	
Bottom left app	DRE Program Guide	Default		Program Guide	
Top right app	DRE Weather	Default		Weather	
Bottom right app	DRE ScoreGuide	Default		ScoreGuide	

Figure 9: Dashboard Layout

Be sure to select the app, the app configuration, the icon and the text to display underneath the icon. For the DRE Info-Multiview and DRE Info-Simple apps, you will need to select the configuration of those apps that contain the hotel information content you've created with the hotel management.

You may also change the icon and the text below the icon to be displayed on the buttons in the Guest Welcome Screen. Be sure to limit the length of the text icon as it may be cut off when displayed on the TV screen.

If no DRE Info app configuration exists, please refer to Section 3.4 to create a custom Hotel Information configuration.

The configuration tool provides more capabilities, such as Backup and Restore, to help facilitate managing systems in the field. For more information on each of the sections and features of the Configuration Tool, please refer to the next section.

3.3 Hotel Information App

The Hotel Information App contains all the information that the hotel wishes to share with its guests. The hotel should determine what they want to highlight in the application. To best design this app, consult with the hotel management. You may want to provide screenshots of the application to help them understand the layout and work with them on how the information should be displayed.

You should prepare a list of features and amenities, as well as descriptions for each. You will also need to have ready a high-resolution hotel logo as it will be displayed in a larger format.

3.4 Create Customized Hotel Information Pages

Hotel Information Pages can be created by accessing the App Configuration section of the Configuration Tool.

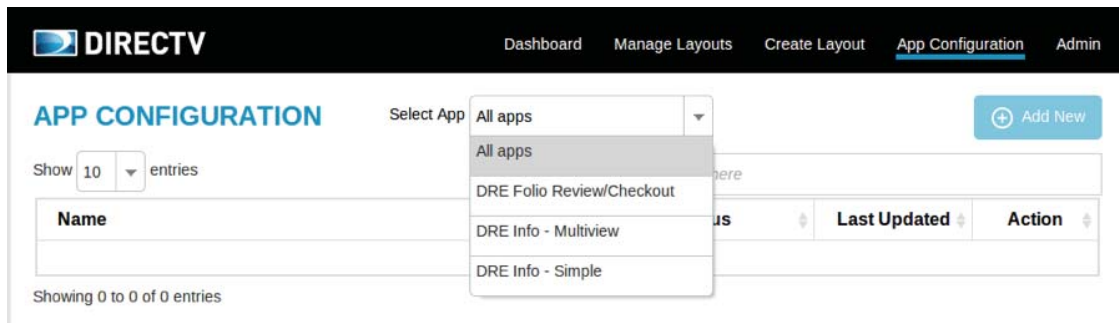


Figure 10: App Configuration

Select the DRE Info-Multiview application from the Select App drop-down menu. When selected, click the (+) Add New button to create the layout and fill it in.

3.5 Create Content for the Hotel Information pages

This section will guide you on how to create content for the Hotel Information-specific pages. Please provide a unique name and description for each page. It is recommended that the date is included in the Name or Description.

Figure 11: Create App Configuration

3.5.1 Fill in the Initial Information Screen

The screenshot shows a configuration interface for the 'Initial Information Screen'. It includes a 'Page title' field with the value 'Hotel Information' and a note 'Max length: 22 chars'. Below this is a 'Type' section with three radio button options: 'Landing page layout - text only' (selected), 'Landing page layout - image only', and 'Landing page layout - text and image'. A large text area labeled 'Landing page text' contains the placeholder text 'Main page of Hotel Information Screen'.

Figure 12: Initial Information Screen

The top section allows you to specify what appears on the initial informational screen, when the Hotel Information app is loaded.

There are three options: Text Only, Image Only (1030 x 355 px), and Text and Image.

3.5.2 Specify Information Pages

The screenshot shows the 'Specify Information Pages' configuration interface. It features a 'Child Pages' tab and two sections for configuring individual pages. Each section starts with a checkbox (both are checked) and a 'Left Menu Item Name' field. The first section is for 'Page 1' and the second for 'Page 2'. Both sections have a 'Type' section with three radio button options: 'Page layout: text-only' (selected in both), 'Page layout: image-only', and 'Page layout: text and image'. Below each type section is a large text area for content, with the first containing 'Page 1 Text' and the second containing 'Page 2 Text'. A label 'A paragraph or more of text' is positioned to the left of each content area.

Figure 13: Specify Information Screen

Click the checkbox next to each page in order to enable a new menu item for each Hotel Information Page. In each section, the same Title and Page Content options exist: Text Only, Image Only, and Text and Image.

For each page that is enabled, it will appear in the Hotel Information app in the left menu as shown:

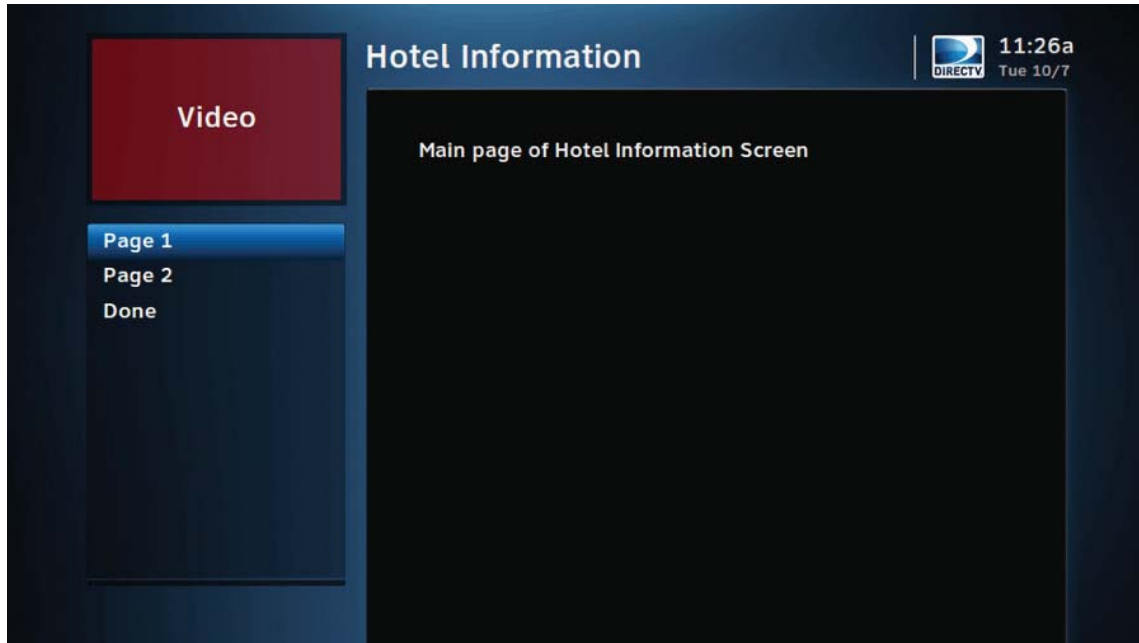


Figure 14: Hotel Information app

3.5.3 Complete and Save Layout

Click Save button at the top of the screen and return to the App Configuration screen to ensure the page configuration is completed.

If you see the status as “In-progress,” it means that some aspect of the App Configuration was not completed. (e.g., the Hotel Logo is missing).

Name	Status	Last Updated	Action
Hotel Information	In-progress	2014/10/07	

Figure 15: In-progress Screen

Be sure to confirm that the status appear as “Complete.” If it is not complete, it will not be available for selection when updating the layout in the next section.

Name	Status	Last Updated	Action
Hotel Information	Completed	2014/10/07	

Figure 16: Complete Screen

3.6 Add the New Hotel Information App to the Guest Welcome Screen

Now that the Hotel Information app is complete, it must be added as an icon to the main Guest Welcome Screen layout.

The quickest way is to copy the current layout. Return to the Dashboard tab:

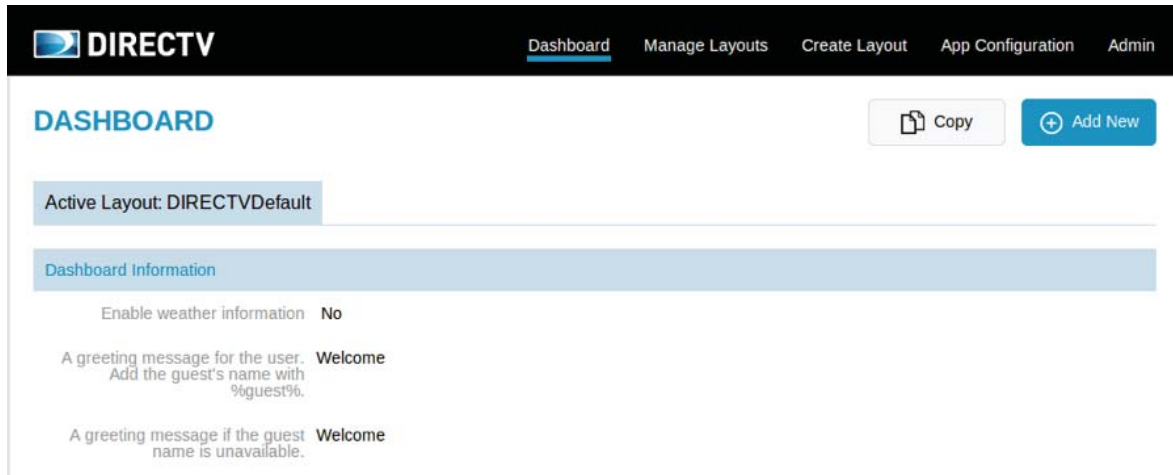


Figure 17: Dashboard Tab

Click on the Copy button at the top of the page. In the Copy Layout Screen, create a new Layout Name. It is recommended that the date is included in the Name or Description.

Next, scroll to the bottom and select a new app for the app icon as shown below in the “Bottom right app” location. Select the DRE Info – Multiview app, and then select the configuration you have created.

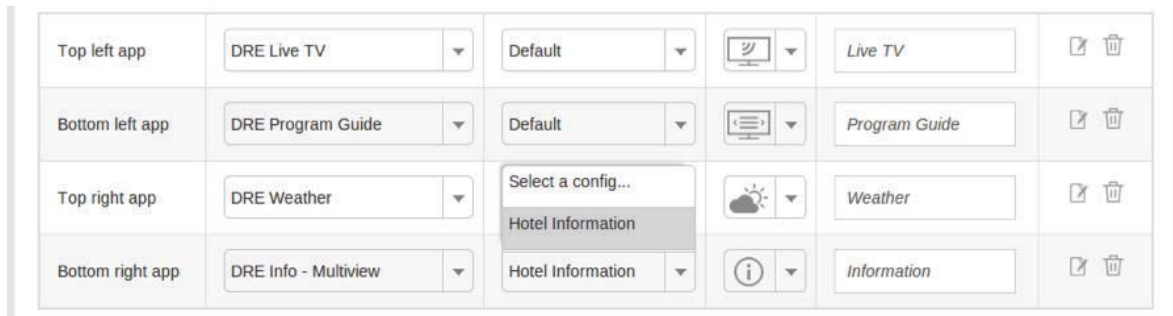


Figure 18: Multiview Tab

Return to the top and click the Save button to save the updated layout. Once saved, click the Publish button and then the Publish to Production button to complete the deployment of the new updated layout.

In this screen, you may select new icons and change the text below the icon for the buttons in the Guest Welcome Screen. Be sure to limit the length of the icon text, as it may be cut off when displayed on the TV screen.

3.7 Configuring Folio Review/Checkout App

To add Folio Review/Checkout on the Guest Welcome Screen, head to the App Configuration section of the Configuration Tool.

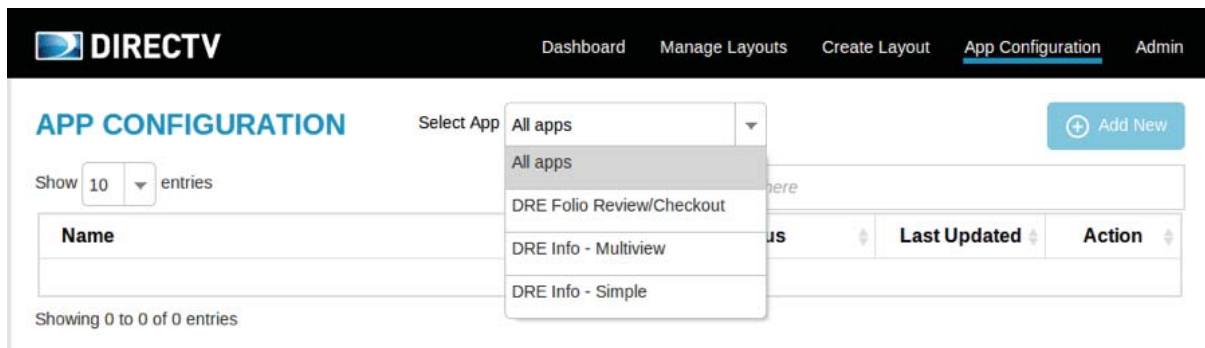


Figure 19: Dashboard Tab

Select the DRE Folio Review/Checkout application and click (+) Add New button to add a new configuration.

With the help of the Hotel Management, determine what message should be displayed to the guest upon a successful checkout. Enter it in and save the application.

Return to the Dashboard Layout and select the DRE Folio Review/Checkout Application. Select the configuration that was just created, then save the layout and publish it.

3.8 Configuring the Customizable Banner

Click Enable the banner ad button to upload a different hotel self-promotion banner to be displayed below the video in the Guest Welcome Screen. The banner ad allows the hotel to provide an eye-catching graphic to promote hotel amenities and specials.

4. Graphical User Interface

This section describes the Configuration Tool in more detail. Users should refer to this section to understand the various sections of the Tool and understand possible error messages and troubleshooting tips.

4.1 Authentication Gateway

The authentication gateway's purpose is to prevent illegal access to the system. Only users with a valid authenticated session will be able to access the system.

There is no direct login page to the system. The user has to provide authentication information via the MCS system, and then that session will be directed to the Configuration Tool.

Sessions will timeout after 30 minutes of inactivity.

In case no valid authentication is provided, the user will see the error message below:

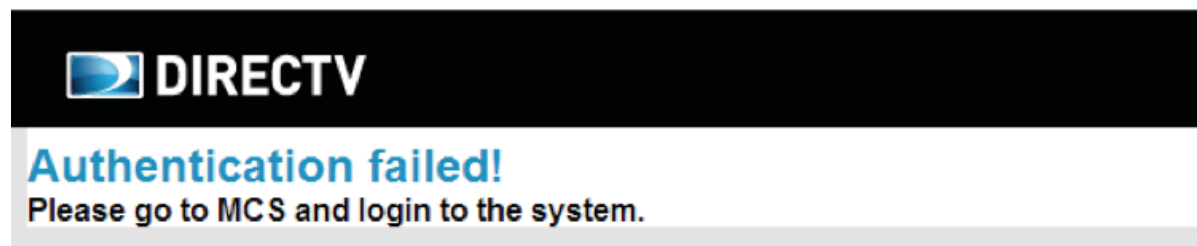


Figure 20: Authentication error

4.2 Top Menu

The top menu contains links to access the functions of the system. It appears on every page.

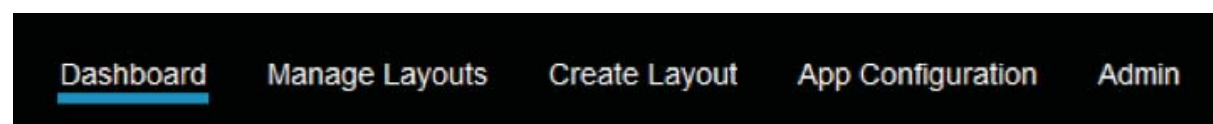


Figure 21: Top menu

An active menu item will be indicated by a blue underline.

4.3 Dashboard

The dashboard is the first page the user can see when entering from the MCS system. The top part of the dashboard displays information about the current active layout. If there is no active layout, this section will be empty.

DASHBOARD

Copy Add New

Active Layout: Spring

Dashboard Information

Enable weather information: Yes

ZIP code for weather location: 90001

City display name: Los Angeles

State/province abbreviation: CA

A greeting message for the user:
Add the guest's name with %guest%

Welcome, %guest%

Hotel logo image

PATTI

Enable the banner ad: Yes

Upload a banner ad:

Dashboard Layout: 4 x 2 menu layout

APP ASSIGNMENTS

#	Icon	Label	App	App Configuration
Top left app		Live TV	DRE Live TV	Default
Top middle left app		Program Guide	DRE Program Guide	Default
Bottom middle left app		ScoreGuide	DRE ScoreGuide	Default
Bottom left app		Weather Info	DRE Weather	Default
Top right app		Information	DRE Info - Simple	v.1.0.1
Top middle right app		Hail Taxi	DRE Taxi	Default
Bottom middle right app		House Keeping	DRE House Keeping	Default
Bottom right app		Checkout	DRE Folio Review/Checkout	v.1.1

Figure 22: Active layout

The Create New button allows the creation of a new layout. The Copy button is for making a new layout with prefilled data from an active layout.

The bottom part of the dashboard shows the five most recent layouts.

Saved Layouts	Publish Date	Last Updated
Christmas *Active*	2014/06/18	2014/06/17
Summer *Completed*	2014/06/13	2014/06/13
Spring *Completed*	2014/06/17	2014/06/13
New season *Completed*	-	2014/06/13
Park Hyatt *In-progress*	-	2014/06/11

Figure 23: Top five most recent layouts

4.4 Manage Layouts

A user can list all the saved layouts by accessing the Manage Layouts link from the top of the menu.

MANAGE LAYOUTS

Add New

Show 10 entries

Search: Type here

Layout Title	Status	Publish Date	Last Updated	Action
Autumn	Completed	2014/06/18	2014/06/01	
Christmas	Completed	2014/06/24	2014/06/17	
Hampton Inn Columbia	In-Progress	-	2014/01/01	
Hilton Hotels	In-Progress	-	2014/02/20	
JazzFest Launch	Completed	-	2014/04/27	
New season	Completed	-	2014/06/13	
Park Hyatt	In-Progress	-	2014/06/11	
Spring	Active	2014/06/25	2014/06/13	
Summer	Completed	2014/06/13	2014/06/13	
Test layout	Completed	-	2014/03/19	

Showing 1 to 10 of 12 entries

1 | 2 Next

Figure 24: Manage layouts

The list of saved layouts is displayed alphabetically by layout name. A user can change this order by clicking on the arrow on the right side of the header in the table of results.

A search box supports filtering of the results. The entered keyword will be matched for data in all columns.

Layouts are shown with 10 entries per page by default. Page navigation is located at the bottom-right corner of the table.

The layout description (if applicable) will be shown when the user hovers their pointer over a layout title in the Layout Title column.

A user can click on a layout title to edit. This also can be done by clicking on the icon from the Action column.

Icon allows for completely removing a saved layout.

Status indicates the current state of the layout, which can have one of three values:

- **In-Progress**—The layout is saved but some customizations have not been configured (e.g., a text field is blank or a configuration is not chosen for an app).
- **Completed**—The layout is saved and ALL customizations are configured. Only layouts in this state can be published.
- **Active**—This layout has been published to the production system and is the Guest Welcome Screen app showing in guests' rooms. There can be only one active layout at any time.

4.5 Create New Layout

The dashboard app is required to create a new layout. If this app is not present, the page will show a message to remind the user to upload the dashboard app from Admin page.

Template unavailable!

Please go to Admin page and upload a tarball for DRE Dashboard template.

Figure 25: Template unavailable

A user can create a new layout by accessing the Create Layout link at the top of the menu. The system will display a form with a number of customization items where the user can input their own data:

CREATE NEW LAYOUT Back Save

Layout Name *

Description

Dashboard Information

Enable weather information ☐

A greeting message for the user. Add the guest's name with %guest%.

Max length: 32 chars

Hotel logo image No file chosen

Dimension : 181 x 72
Max file size : 25 KB
Acceptable Formats : JPG, PNG, GIF

Enable the banner ad ☐

Dashboard Layout

Type : ☒ 2 x 2 menu layout ☐ 3 x 2 menu layout ☐ 4 x 2 menu layout

Figure 26: Create new layout

Layout Name and Description are used only by the Configuration Tool to identify a layout and to provide the user an optional brief description of the layout. The rest of the items are customizations used to configure the Guest Welcome Screen.

Layout Name is mandatory information, while Description is optional. The user can input free text for these fields.

There are two groups of customizations:

Dashboard Information—Contains general customizations that are common HTML form elements, such as text, image and checkbox. Each item might have restrictions on input (e.g., length, format, and file size).

For [Hotel logo image] item, the restrictions listed below the field must be followed. An error message will occur when validation fails:

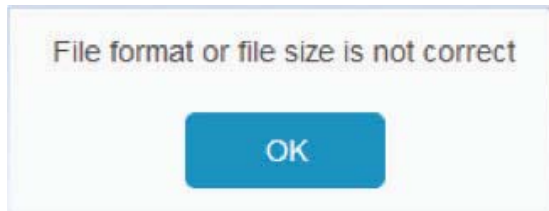


Figure 27: Image validation

Dashboard Layout—Used to add applications to the Guest Welcome Screen in predefined layouts: 2 x 2, 3 x 2 and 4 x 2.

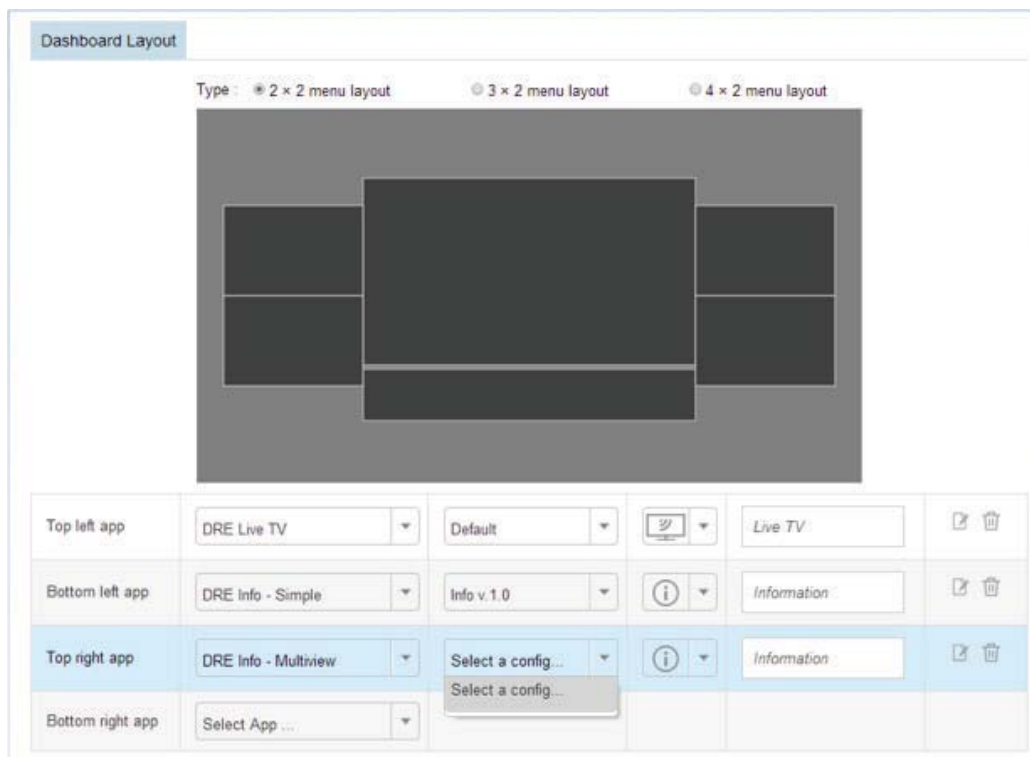




Figure 28: Dashboard layout configuration

When a cell is configured with an app:

- If the selected app is customizable, the user must choose one from the existing completed configurations to apply. A user can click on the icon  to edit the selected configurations.
- If the selected app is noncustomizable, the user can only choose its default configuration to apply.
- The user can change the display icon and label of the selected app from this screen.
- Icon  on the right resets the current line to blank.

The user has to input all the customization items to make the layout complete.

When clicking on the Save button, the input data will be stored and the user will be redirected to the Edit Layout page.

The Back button will cancel the current action and redirect back to Manage Layouts.

4.6 Edit Saved Layout

The user clicks on a saved layout from the layout list to access the editing page.

EDIT LAYOUT

Back Save Publish

Layout Name * Summer

Description This is a layout for summer season

Dashboard Information

Enable weather information ☒

ZIP code for weather location 98225
Max length: 5 chars

City display name Bellingham

State/province abbreviation WA
Max length: 2 chars

A greeting message for the user. Add the guest's name with %guest%.
Welcome, %guest%!
Max length: 32 chars

Hotel logo image Choose File No file chosen
Dimension : 181 x 72
Max file size : 25 KB
Acceptable Formats : JPG, PNG, GIF

TEST LOGO

Figure 29: Edit saved layout

The user can update all the information of the layout, including its name, and the status will be updated when saved.

When a layout is saved with all customizations configured, the status is changed to Completed and the Publish button will be enabled. When clicking on this button, the user will be asked for the location to publish the layout:

Where would you like to publish to?

Publish to Testing Publish to Production

Figure 30: Publish options

If the user selects Publish to Production button, the completed layout will be sent to the designated host defined by the field Production URL (see Administration on page 25). Then the status of the layout will be changed to “Active” and the published date will be set to the current date.

If the user selects Publish to Testing button, the completed layout will be sent to the designated host defined by the field Test Base URL. However the layout status and published date will not be updated.

While Publish is processing, the user can see the message below:



Figure 31: Publish in progress

4.7 App Configuration

This page shows all the available app configurations from the system.

Name	Status	Last Updated	Action
Folio v.1.1	Completed	2014/06/23	
Folio v.1.2	Completed	2014/06/23	
Info v.1.0	Completed	2014/06/23	
Info v.2.0	Completed	2014/06/23	
Multi v.1.1	In-progress	2014/06/23	

Showing 1 to 5 of 5 entries 1

Figure 32: App configuration

The dropdown menu at the top of the page supports filtering the configurations of an app.

The + Add New button allows the creation of a new configuration for the selected app. This button is only accessible when an app is selected from the drop-down menu.

A search box supports filtering the results. The entered keyword will be matched for data in all columns.

App configurations are shown with 10 entries per page by default. Page navigation is located at the bottom-right corner of the table.

The user can edit an app configuration by clicking on its name or on the icon from the Action column.

The icon deletes an app configuration.

4.8 Create App Configuration

The user clicks on the Add New button on the App Configuration page to create a new app configuration for a selected app from the drop-down menu at the top of the page. Each application has a manifest file that defines the needed configurations.

CREATE APP CONFIGURATION Back Save

Config Name *

Description

Default

Hotel logo image Choose File No file chosen
 Dimension : 181 x 72
 Max file size : 25 KB
 Acceptable Formats : JPG, PNG, GIF

Page heading
 Max length: 22 chars

Page summary
 Max length: 180 chars

Page style selection

Type : ☒ Page style: text-only ☐ Page style: image-only ☐ Page style: text & image

Figure 33: Create new app configuration

Configuration Name and Description are used only by the Configuration Tool to identify an app configuration and to provide the user an optional brief description of the app configuration. The rest of the items are app-specific configurations.

Config Name is mandatory information, while Description is optional. A user can input free text for these fields.

The user has to input all the customization items to make the configuration complete.

When clicking on the Save button, the input data will be stored and the user will be redirected to the Edit App Configuration page.

The Back button will cancel the current action and redirect back to App Configuration.

4.9 Edit App Configuration

The user clicks on an app configuration from the list in the App Configuration page to edit.

EDIT APP CONFIGURATION

Back
 Save

Config Name *

Description

Default

Hotel logo image

No file chosen

Dimension : 181 x 72
 Max file size : 25 KB
 Acceptable Formats : JPG, PNG, GIF

Page heading

Max length: 22 chars

Page summary

Max length: 180 chars

Page style selection

Type :
 ☒ Page style: text-only
 ☐ Page style: image-only
 ☐ Page style: text & image

Text to display

Figure 34: Edit app configuration

The user can update all the information of the app configuration, even its name, and the status will be updated after it is saved.

4.10 Administration

The Administration page allows the user to:

- Configure a publish location
- Manage the apps
- Backup/Restore data

4.10.1 Publish Configuration

This step allows the user to configure the location for publishing a layout.

The screenshot shows a web form titled "Publish Configuration". In the top right corner, there is a blue button with a white floppy disk icon and the text "Save". Below the title, there are two text input fields. The first field is labeled "Production URL" and contains the text "http://172.16.1.11:5558/homepage". The second field is labeled "Test Base URL" and contains the text "http://172.16.1.11:5558/test_homepage".

Figure 35: Publish configuration

Production URL is the location to publish a complete layout in a production environment (accessible by STB).

Test Base URL defines the location for testing the layout publish feature.

The two fields above are required and must be provided in a valid URL format. An error will be displayed in case of incorrect input.

The user clicks on the Save button to apply the change.

4.10.2 App Management

The user can view the list of uploaded apps, upload new apps or remove an existing app from the system.

App Management

Upload App Package

Acceptable Formats: .TAR.GZ, .TGZ

App Name	Action
DRE Dashboard	
DRE Folio Review/Checkout	
DRE Live TV	
DRE Program Guide	
DRE ScoreGuide	
DRE Taxi	
DRE Weather	

Figure 36: App management

To upload a new app (or reupload an existing app), the user selects an application archive file (or “tarball”), which will have an extension of .tar.gz or .tgz.

If the upload is successful, the App Name list will be updated with the new uploaded app and the user will receive a confirmation:

App [DRE Info - Simple] uploaded successfully.

Figure 37: App upload successful

In case of an error, a corresponding message will be displayed:

Invalid tarball structure.

Figure 38: App upload failed

If a user uploads a new version of an existing app, the system will perform a check on the manifest file. If it affects the integrity of saved data, a corresponding message will be displayed:

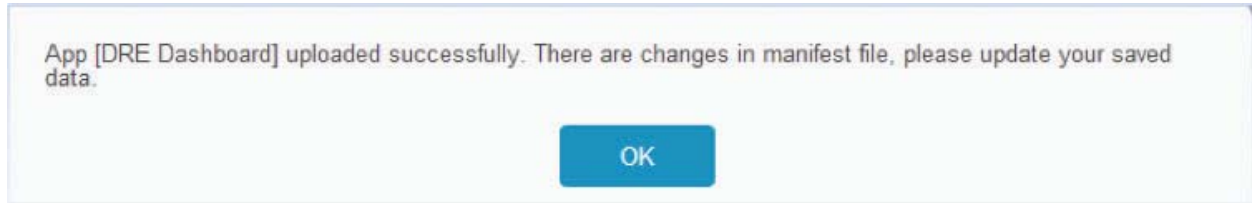


Figure 39: Manifest changed warning

The status of the existing layout and app configuration will also change accordingly to the new version of the uploaded app. The user can remove an uploaded app by clicking on the icon from the App Name list. If a saved layout was configured with an app configuration that is about to be deleted, that app cannot be deleted. A message will be shown to the user:

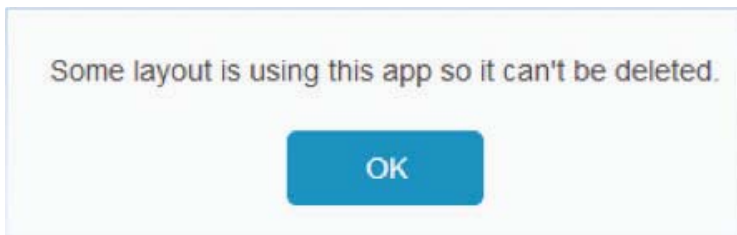


Figure 40: App deletion failed

4.10.3 Data Backup/restore

The backup feature allows the user to get a copy of system data in format .tar.gz. Then the user can restore data by importing this tarball into the system.



Figure 41: Data backup/restore

When clicking on the Backup button, a tarball of actual system data will be downloaded onto the user's computer. It can be used for restoring data afterwards.

After choosing a tarball to restore, the user is asked to confirm this action. If the user responds “No,” the restoration will be canceled.

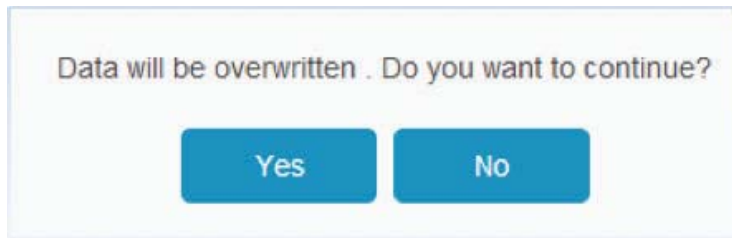


Figure 42: Data restore—confirmation

While restoring data, the user can see the message below:



Figure 43: Restore in progress

When the content of the tarball is not archived in the data folder, it is invalid and an error will be displayed.

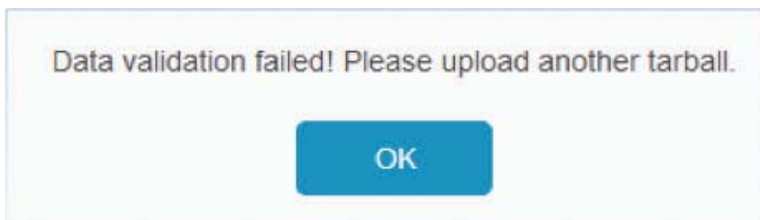


Figure 44: Invalid tarball

Appendix A — System Properties

This section lists some of the system properties defined in the environment file and what each property represents.

dbhost	Specifies the address of the DB server
dbuser	Specifies the user ID to connect into DB
dbpass	Specifies the user password to connect into DB
datadir	This is the root of data-storing location. All the business data of Configuration Tool can be found here.
outputdir	This is a sub directory of datadir. It defines the parent path to store the precompiled resources for publishing.
documentroot	This property defines the location on the web server to publish the output package.
dashboardrootpath	This is the location of dashboard app on the web server This is a subfolder of document root.
appsrootpath	This is the location of apps on the web server. This is a subfolder of document root.
username	User for remote login via ssh to deploy layout
privatekeyfile	RSA private key file for ssh user
checkSession	To enable/disable authentication gateway
sessionTimeOut	The inactivity time to put the current session to expire
app.webroot	Webroot of Configuration Tool when running
port	Server port