HP Propel

Software version 1.01

Customizing the Marketplace Portal



Contents

Introduction	
Portal-wide Customization	2
Themes	2
Out-of-the-box Themes	2
Custom Themes	5
Portal Styling	
Corporate or Organization Logo	
Dashboard Customization	
style property	8
Banner	
Sections	11
Dynamic Section	13
Tiles	14
Tile Styling	15
Hot Keys	16
Widgets	17
Default widgets	17
Custom widgets	17
Using the IFrame Technique	25
Appendix A: Example Configuration File Format	28
Appendix B: Glyph Icons	

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Introduction

Your administrator can customize the display of the Propel Marketplace Portal to meet your organization's needs. We'll begin by looking at information that applies broadly to portal customization. Subsequent topics will address customization of specific areas of the Marketplace Portal.

Dashboard Configuration File

One of the primary configuration files involved in Marketplace Portal customization is the Dashboard configuration file: /opt/hp/propel/mpp/conf/dashboard.json. See **Appendix A: Example Dashboard Configuration File Format**.

Note: The **HP Marketplace Portal** service must be restarted after changes are made to the dashboard.json file. The Portal user will need to log out, clear their browser cache, and log in again to see the changes.

Glyph Icons

The Marketplace Portal styling framework provides a collection of glyph icons that can be used throughout the application. To reference these, use the appropriate HTML class names. The available icons are listed in **Appendix B: Glyph Icons**.

Custom images

Unless specified otherwise, store your custom Marketplace Portal images in $\protect{\rm /opt/hp/propel/jboss-as/standalone/deployments/consumption.war/images/library/<imagefile>}. Custom image URLs (in dashboard.json, for example) would be in the following form:$

https://<hostname>:<port>/consumption/images/library/<imagefile>.

Portal-wide Customization

Themes

Themes define colors, fonts and the general look-and-feel of the Marketplace Portal. Select from out-of-the-box themes or create a custom theme.

Out-of-the-box Themes

The following out-of-the-box, or pre-packaged, themes are available:

- HP Simplified
- HP Playful
- HP Enterprise

Change the selected theme as follows:

- Access the Organization Administration User Interface. (Select **Organizations** from the HP Propel Management Console.)
- Create a new organization or select an existing organization to modify.
- Select Customization.
- Enter the desired theme's name in the themeName box.
- Click on Save.

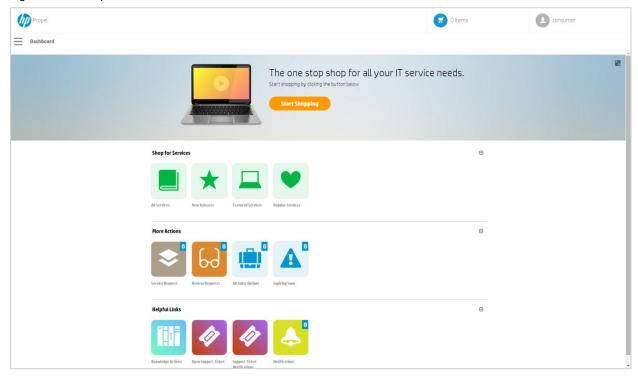
HP Propel Page 2 of 32

Figure 1: Selecting a theme



Following are example Dashboard screenshots of the three out-of-the-box themes.

Figure 2: HP Simplified

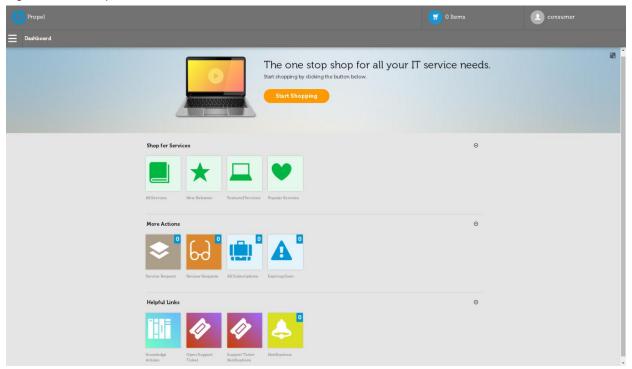


HP Propel Page 3 of 32

Figure 3: HP Playful



Figure 4: HP Enterprise



HP Propel Page 4 of 32

Custom Themes

In addition to out-of-the-box themes, HP Propel allows custom themes to be created. The administrator specifies the custom theme name (see Figure 1: Selecting a theme) and provides the content needed as described in the following.

The Marketplace Portal will look for the custom theme content in the following directory:

```
hp/propel/mpp/node_modules/mpp-ui/dist/bower_components/<theme directory>/styles/main.css
```

The login page (IDM Service) has its own theme content which can be found in the following directory:

```
hp/propel/jboss-as/standalone/deployments/idm-service.war/themes/<theme directory>/styles/main.css
```

Example: In the Propel Management Console, if **Custom** is entered for the custom theme name, the Marketplace Portal will look for the following files:

```
hp/propel/jboss-as/standalone/deployments/idm-service.war/themes/Custom/styles/main.css
```

The Login page (IDM service) will also look for the following location:

```
hp/propel/jboss-as/standalone/deployments/idm-service.war/themes/Custom/styles/main.css
```

Best Practice: When creating a new theme directory, copy an existing theme directory, and then modify the new theme directory name and CSS files. To support customization, the CSS files must be named **main.css** and **main-rtl.css**.

Notes:

- Custom theme directories must model other theme directories. The directory **styles** contain all styling components, such as .CSS, images, and fonts.
- The CSS files must be named main.css and main-rtl.css. main-rtl.css is used for locales that read right-to-left.
- Out-of-the-box themes might be minified to reduce or exclude whitespace. When you duplicate these
 files you will want an IDE/tool to help unminify the CSS content to make it more readable. An example
 of this tool can be found at http://mrcoles.com/blog/css-unminify.

Theming Framework

The Marketplace Portal theming framework models the open source project Bootstrap at http://getbootstrap.com. Review the Boostrap documentation to learn how the Marketplace Portal's components are structured with class labels.

All CSS rules used in Bootstrap are included in the main.css file for each out-of-the-box theme.

A CSS extension language used to create the framework is SASS (Syntactically Awesome Style Sheets), found at http://sass-lang.com. This extension language includes variables, nested rules, reusable mixins, and functions.

Portal Styling

The background and text color of the body, navigation bar, and sidebar of Marketplace Portal views can be customized through changes to the Portal CSS files. The Marketplace Portal will look for this content in the following directory:

HP Propel Page 5 of 32

hp/propel/mpp/node_modules/mpp-ui/dist/bower_components/<theme directory>/styles/main.css

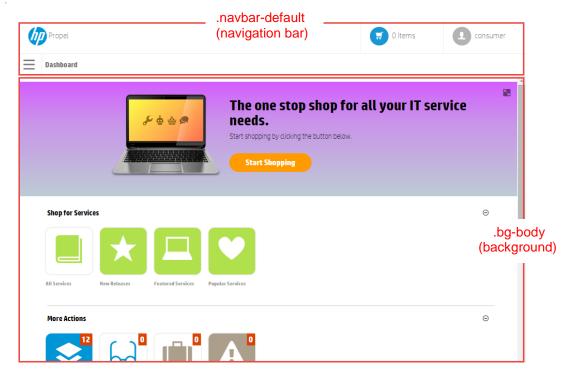
The Login page (IDM Service) has its own content which can be found in the following directory:

hp/propel/jboss-as/standalone/deployments/idm-service.war/themes/<theme directory>/styles/main.css

See the **Custom Themes** section for more information on these files.

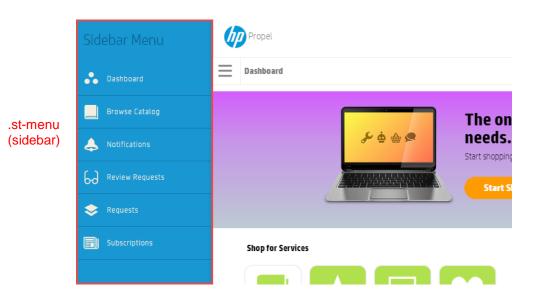
The portal styling properties include:

- View body: .bg-body
- Navigation bar: .navbar-default



Sidebar: .st-menu

HP Propel Page 6 of 32



In the CSS content, specify background for the background color/image and color for the text color.

Example CSS content:

```
// Specify a background color for the body ...
.bg-body {
   background: #000000 //black background
}

// ... or specify an image for the background.
.bg-body {
   background: url('/mpp-theme/images/skyscrapers.png') no-repeat cover;
}

// Specify text color for the sidebar menu.
.st-menu {
   color: #000000 //black text
}
```

Corporate or Organization Logo

A logo or picture for your corporation or organization can be used in the Marketplace Portal. It will be displayed on the portal login page, in the upper left-hand corner of Marketplace Portal views, and in Management Console views where appropriate.

Add a logo or picture as follows:

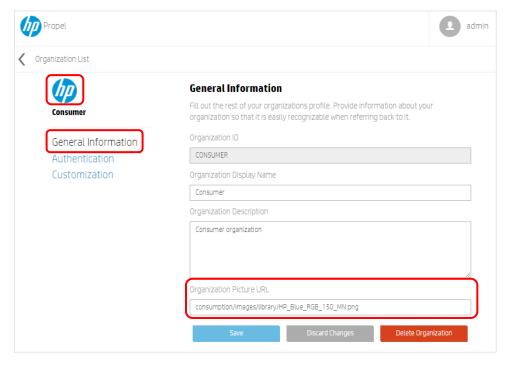
- Access the Organization Administration UI. (Select Organizations from the HP Propel Management Console.)
- Create a new organization or select an existing organization to modify.
- Select General Information.
- Enter the URL for a picture that represents the organization in the Organization Picture URL box.
- Click on Save.

Store your custom HP Propel organization logo image in /opt/hp/propel/jboss-as/standalone/deployments/consumption.war/images/library/<imagefile>. Reference

HP Propel Page 7 of 32

this image in the Organization Picture URL box as

https://<hostname>:<port>/consumption/images/library/<imagefile>.



Notes:

The HP Corporate logo is not part of the out-of-the-box content. It is a custom image.

Dashboard Customization

Let's look at Marketplace Portal Dashboard banner, sections, tiles and widgets customization.

Dashboard banner, section and tile customization is achieved by modifying the Dashboard configuration file located at /opt/hp/propel/mpp/conf/dashboard.json. The file includes content for:

- 1. **header** (more commonly referred to as the "banner")
- 2. sections
- 3. tiles

Note: The Dashboard can be configured to show selected tiles and sections only to users with specified roles. For example, the following could be included in the configuration file content for a tile or section: "role": ["CONSUMER_ORGANIZATION_ADMINISTRATOR". See **Appendix A: Example Configuration File Format** for more details.

Note: The **HP Marketplace Portal** service must be restarted after changes are made to the dashboard.json file.

style property

A **style** property is specified as part of each Dashboard element's configuration. Elements include header (banner), sections, and tiles, each of which is addressed in this document. A style property contains a space delimited string, for example, style: "default my-selected-style". Style values must be

HP Propel Page 8 of 32

predefined within the Marketplace Portal, and for visual appeal should be defined to work well with the overall styling of the portal.

Note: HP Propel supports only predefined styles. These will be described in detail in each topic as appropriate. Specific CSS styling is not supported.

Banner

Administrators can customize the Marketplace Portal Dashboard banner (also known as the "header"). Customization is done by modifying the header content in the dashboard.json configuration file located at /opt/hp/propel/mpp/conf/dashboard.json. See Appendix A: Example Configuration File Format for more details.

Following is an example banner with properties labeled for easy identification.



Banner header configurations file properties:

Note: Configuration properties are typically optional. At least one entry in **items** must be defined for the banner to be useful. Values will be empty if **default** properties are not defined and individual **items** properties are also not defined.

Value Items	Description		
default	Specifies the default value for the banner properties. Any items properties not specified will use these default values.		
items	Array or list of banners		
icon	Sub-property url will take precedence over className		
className	Predefined icon/glyph available in the Marketplace Portal. See Appendix		
	B: Glyph Icons for more information.		
url	URL reference to an image.		
description	Label to be displayed on the banner.		
subDescription	Sub-label to be displayed on the banner.		
link	Specify either sub-property String representation or Object representation .		
String representation	A simplified format for the link which contains the banner link URL Default attributes will be used for target and label .		
Object representation	Allows more customization of the link property.		
url	URL the link references. Can be an internal or external link.		
target	Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are: • _blank: Opens the link in a new browser window or tab. • _self: Opens the link in the current browser frame.		
	 _parent: Opens the link in the browser parent frame. 		

HP Propel Page 9 of 32

	 _top: Opens the link in the full browser window. 	
label	Label displayed on the link.	
background	Specify one or more className values and optional image URL. Defaults to black background.	
className	<see following="" list="" of="" table.="" this="" valid="" values=""></see>	
url	URL reference to an image. Can be an internal or external link.	

Banner background className values

The following predefined className values are available:

- Background colors:
 - o green
 - o dark-blue
 - o light-blue
 - o lemon
 - orange
 - o rock
 - o white
 - o black
- Background images:
 - o bg-blur
 - o bg-red-sky
 - o bg-dots
 - o bg-success
 - bg-warning
 - o bg-critical
- Other background styling:
 - background-stretch Stretch background image as needed to fill banner background. Requires that a background image be specified.
 - background-repeat Repeat the background image horizontally and vertically to fill the area.
 Requires that a background image be specified.

Example configuration file content format:

HP Propel Page 10 of 32

```
]
```

Example configuration file content:

```
header: {
  default: {
    "background": {
      "className": "white bg-blur background-stretch"
  },
  items: [
    {
      "icon": {
        "url": "mpp-theme/dist/mpp-theme/images/laptop.png"
      "description": "shop.banner.description",
      "subDescription": "shop.banner.subDescription",
      "link": {
        "label": "shop.banner.link",
        "url": "#/shop"
    }
  ]
}
```

Sections

Sections are horizontal containers for tiles on the Dashboard. A section can contain an infinite number of tiles. If all the tiles cannot be shown in the given view area of the section, a horizontal scrollbar will appear. Sections can be collapsed or expanded by clicking the section name.

Following is an example section with several properties labeled for easy identification.



The label, background color, tiles and seeMore label/link are all customizable.

Section configurations file properties:

Note: Configuration properties are typically optional. At least one entry must be defined under **tiles** for the section to be displayed. Values will be empty if **default** properties are not defined and individual **tiles** properties are also not defined.

Value Items	Description		
type	Section type. Used only when the section is predefined.		
name	Specify CATALOG_CATEGORY or WIDGET.		

HP Propel Page 11 of 32

Category Used only when name is CATALOG_CATEGORY, Select from: FEATURED_CATEGORY, NEW_RELEASES, MOST_REQUESTED, or CATEGORY_NAME. Iabel				
Clickable location on the right side of the section. By default this will be a plus or minus sign allowing the user to expand (show) or collapse (hide) the section content. Further customization is possibly by specifying sub-property: String representation A simplified format for the link which contains the seeMore link URL Default attributes will be used for target and label. Object representation URL the seeMore link references. Can be an internal or external link. Web page or browser target for the url link, null or undefined defaults to using the same frame ("_self"). Possible values are: blank: Opens the link in a new browser window or tab. self: Opens the link in the current browser frame. parent: Opens the link in the browser parent frame. top: Opens the link in the full browser window. Iabel Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https://~prope/hostname>:8089.) / notification / myservice Pre-defined section — navigates to the specified pre-defined content: FEATURED_SERVICES NEW_RELEASES_SERVICES SUBSCRIPTION_EXPIRING Navigates to an external page (staying on same page/tab in the browser). Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically.	category	FEATURED_CATEGORY, NEW_RELEASES, MOST_REQUESTED, or		
or minus sign allowing the user to expand (show) or collapse (hide) the section content. Further customization is possibly by specifying sub-property: String representation, Object representation, or url value. A simplified format for the link which contains the seeMore link URL Default attributes will be used for target and label. Object representation url URL the seeMore link references. Can be an internal or external link. target Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are:	label	Section label displayed on Dashboard.		
attributes will be used for target and label. Object representation url URL the seeMore link references. Can be an internal or external link. Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are:	seeMore	or minus sign allowing the user to expand (show) or collapse (hide) the section content. Further customization is possibly by specifying sub-property:		
url URL the seeMore link references. Can be an internal or external link. target Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are: • _blank: Opens the link in a new browser window or tab. • _self: Opens the link in the current browser frame. • _parent: Opens the link in the browser parent frame. • _top: Opens the link in the full browser window. label Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: • Subpage examples: (Will be prepended with HP Propel instance location, typically https:// <pre> / notification • /myservice • Pre-defined section – navigates to the specified pre-defined content: • FEATURED_SERVICES • NEW_RELEASES_SERVICES • SUBSCIPTION_EXPIRING Ravigates to an external page (staying on same page/tab in the browser). Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically. List of tiles that will appear in the Dashboard for this section. See the Tiles</pre>	String representation			
target Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are: • _blank: Opens the link in a new browser window or tab. • _self: Opens the link in the current browser frame. • _parent: Opens the link in the browser parent frame. • _top: Opens the link in the full browser window. Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: • Subpage examples: (Will be prepended with HP Propel instance location, typically https:// <pre> // notification • /myservice • Pre-defined section – navigates to the specified pre-defined content: • FEATURED_SERVICES • NEW_RELEASES_SERVICES • SUBSCRIPTION_EXPIRING Navigates to an external page (staying on same page/tab in the browser). Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically. tiles List of tiles that will appear in the Dashboard for this section. See the Tiles</pre>	Object representation	Allows more customization of the link property.		
the same frame ("_self"). Possible values are:	url	URL the seeMore link references. Can be an internal or external link.		
self: Opens the link in the current browser frame. parent: Opens the link in the browser parent frame. top: Opens the link in the full browser window. label Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https:// <pre> // can be to an internal or external with HP Propel instance location as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https://<pre> / propelhostname>:8089.) / notification /myservice Pre-defined section – navigates to the specified pre-defined content: FEATURED_SERVICES NEW_RELEASES_SERVICES SUBSCRIPTION_EXPIRING Raternal Navigates to an external page (staying on same page/tab in the browser). Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically. tiles List of tiles that will appear in the Dashboard for this section. See the Tiles</pre></pre>	target	the same frame ("_self"). Possible values are:		
 _parent: Opens the link in the browser parent frame. _top: Opens the link in the full browser window. Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https://<pre></pre>		·		
 _top: Opens the link in the full browser window. label Label displayed on the section seeMore button. url value URL. Can be to an internal or external location. Navigates to a subpage of the portal (staying on same page/tab in the browser). Can link to a specified subpage or to a pre-defined section as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https://<pre>propelhostname>:8089.)</pre> /notification /myservice Pre-defined section – navigates to the specified pre-defined content: FEATURED_SERVICES NEW_RELEASES_SERVICES SUBSCRIPTION_EXPIRING external Navigates to an external page (staying on same page/tab in the browser). Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically. tiles List of tiles that will appear in the Dashboard for this section. See the Tiles 				
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Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically. tiles List of tiles that will appear in the Dashboard for this section. See the Tiles		 browser). Can link to a specified subpage or to a pre-defined section as shown here: Subpage examples: (Will be prepended with HP Propel instance location, typically https://<pre>propelhostname>:8089.)</pre> /notification /myservice Pre-defined section – navigates to the specified pre-defined content: FEATURED_SERVICES NEW_RELEASES_SERVICES SUBSCRIPTION_EXPIRING 		
··	external	Link should start with http:// or should define the protocol of the link so browser handles the behavior automatically.		
	tiles			

Example section configuration file content format:

HP Propel Page 12 of 32

Dynamic Section

You can configure a Dynamic Section on the Dashboard by specifying the section type attribute as one of following:

- FEATURED_CATEGORY Loads the services as tiles under featured category.
- NEW_RELEASES Loads the new release services as tiles.
- MOST_REQUESTED Loads the most requested services as tiles.
- Existing Category Name Loads the services in the specified category as tiles.

The relevant tiles will be added to the section dynamically, updating this content each time the Dashboard is refreshed. Node.js will detect that this is a dynamic section and make the relevant call to load the services (depending on the **type** specified), create the appropriate tiles, and append them to the dynamic section.

Note: A specific, fixed set of tiles can be included in a dynamic section. The dynamically added tiles will be appended to that set of tiles.

Example Dynamic section configuration file content format:

```
sections: [
  { // Tiles will be loaded dynamically on the Node.js depending on the
section type ;
    type: FEATURED CATEGORY | NEW RELEASES | MOST REQUESTED | [CATEGORY NAME]
// Pre-defined section
    label:
    seeMore: {
      url:
      [label]:
      [target]:
    tiles: [ // Optional ; For a Dynamic section the appropriate tiles will
be appended it to this list
      {
        label:
        icon: {
         url:
        },
        url:
      },
        label:
        icon: {
         url:
        url:
      }
      . . .
    1
  },
1
```

HP Propel Page 13 of 32

Tiles

Tiles are clickable icons on the Dashboard. They can contain basic information on a feature, a shortcut to another page, or something user defined (mashup widget). The background color, icon, label, and associated URL are all configurable. The URL can be an internal or external link.

A typical tile – with properties labeled for clarification – looks as follows:



Count tile

A count tile includes a small counter in the upper right-hand corner of the tile. The count represents the number of items included in the group this tile represents. For example, if this tile linked to a collection of favorite service offerings, of which there were 12, the count on the tile would look as follows:



Tile configuration items:

Note: Configuration properties are typically optional. **label** and **link** should be defined so for the tile to be useful. Values will be empty if **default** properties are not defined and individual **items** properties are also not defined.

Value Items	Description		
default	Specifies the default values for items properties styling. This should follow the object structure of items . When a tile is defined, any items property not specified will use the default value.		
style	Space delimited predefined CSS style class name.		
items	Array or list of items		
label	Label displayed on Dashboard for this item.		
icon	Specify either sub-property className or url.		
className	Predefined icon/glyph available in the application. See Appendix B:		
	Glyph Icons for more information.		
url	URL reference to an image.		
style	Space delimited predefined CSS style class name. See valid style values following this table.		
link	Specify either sub-property String representation or Object representation .		
String representation	A simplified format for the link which contains the tile link URL Default attributes will be used for target and label .		
Object representation	Allows more customization of the link property.		
url	URL the link references. Can be an internal or external link.		
target	Web page or browser target for the url link. null or undefined defaults to using the same frame ("_self"). Possible values are:		

HP Propel Page 14 of 32

	 _blank: Opens the link in a new browser window or tab. _self: Opens the link in the current browser frame. _parent: Opens the link in the browser parent frame. _top: Opens the link in the full browser window. 			
label	Label displayed on the link.			
target	Page target for the url link. null or undefined defaults to using the same page.			
count	Counter to be displayed in upper right corner of tile.			
url	API URL of where to get the count			
style	Space delimited predefined CSS style class name.			

Tile Styling

Default style properties for tiles are:

- White background (white)
- Dark blue icon text (text-dark-blue)
- Border shadow (default-shadow)
- Rounded corners (border-rounded)
- Catalog Icon (icon-catalog)

Available Styles

The following predefined tile styles are available:

- Tile shadows:
 - o shadow-default
 - o shadow-light
 - o shadow-dark
- Tile background colors:
 - o dark-green (example follows with white icon)



New Releases

- o light-green
- o dark-blue
- o light-blue
- white (default background color)
- o black
- o lemon
- orange
- o red
- o light-red
- o pink
- Tile icon ("text") colors:
 - text-dark-green (example follows with white background)

HP Propel Page 15 of 32



All Services

- o text-light-green
- o text-dark-blue (default text color)
- o text-light-blue
- o text-white
- o text-black
- text-lemon
- o text-orange
- text-red
- o text-light-red
- text-pink
- Tile borders:
 - border-rounded
 - border-square

Example tile configuration file content format:

```
//dashboard.json tile configuration
{
  label: "My Services",
  link: "http://someurl.com",
  icon: {
    className: "icon-briefcase"
  },

  style: "text-dark-blue" // Specify dark-blue icon for tile.
  style: "border-rounded light-blue" // Specify rounded corner border and light-blue background for tile.
}

//html effect of configuration for styling
<tile ng-style="border-rounded blue" class="border-rounded blue"> ... </tile>
```

Hot Keys

A hot key can be defined to activate a tile without using a mouse click. Assign a string key value to the **hotkey** property in the tile content of the dashboard configuration file as shown in the following:

```
label:
link:
role:
hotkey: "ctrl+<selected string key>" // "ctrl+j", for example
image:
icon:
style:
backgroundImage:
}
```

HP Propel Page 16 of 32

Widgets

Let's look now at customizing widgets.

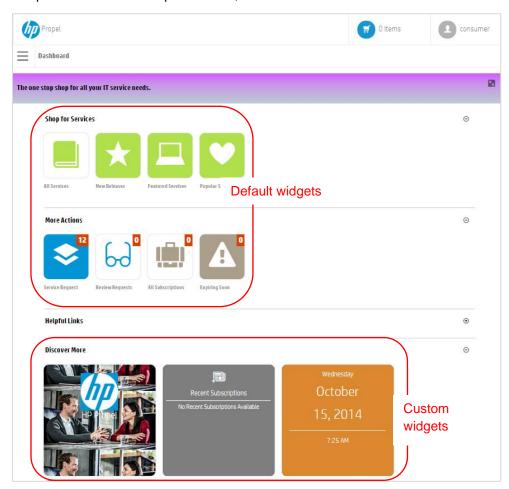
Default widgets

Default widgets are standard in HP Propel and are displayed in the first two sections of the Dashboard. They can be modified through the dashboard.json file, and are configured per installation, not per organization.

Note: The **HP Marketplace Portal** service should be restarted after changes are made to the dashboard.json file.

Custom widgets

Your administrator can add custom widgets to the Dashboard, such as the calendar, recent subscriptions, and HP link widgets shown in the following image. Widgets cannot be added to other pages or components in the Marketplace Portal, such as in the Sidebar Menu.



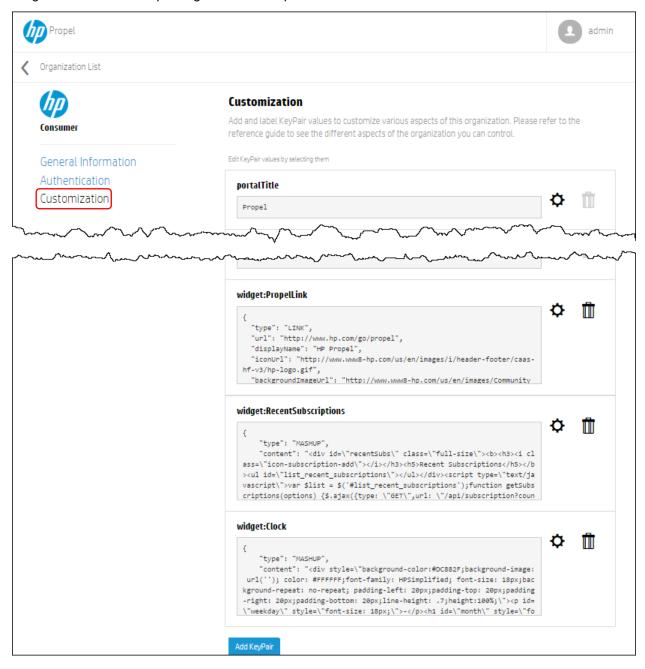
The Marketplace Portal supports the following types of custom widgets:

- Link Widget
- Featured Service Widget
- Mashup Widget

HP Propel Page 17 of 32

The size of a widget in the Dashboard is fixed. Note that it is recommended that you not change the size of even complex mashup widgets as unexpected behavior can result.

Custom widgets are defined per organization under **Customization** in the **Organization** area of the HP Propel Management Console as shown in the following, and will be available to all users in that organization. Click on the **Add KeyPair** button at the bottom of the Customization screen to create new widgets. See the *HP Propel Organizations Help* for more information.



Note that there are entries for three custom widgets corresponding to the three custom widgets in the previous Dashboard image.

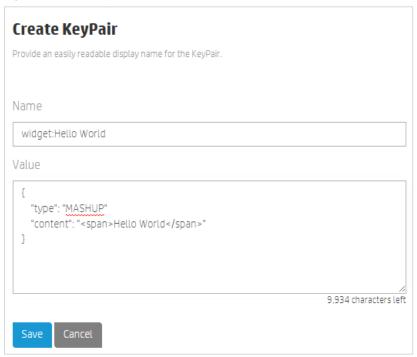
Creating Widgets

HP Propel Page 18 of 32

All widget types are created in HP Propel as key:value pairs in the Customization section of the Organization Administration tab.

The key, or name, provided must be prefixed with **widget:** in order to identify this key pair as a widget. The value of the key pair will always be a JSON object and specific values required will depend on the widget type as detailed in following sections.

Figure 5: Create KeyPair Example



Link Widget

A link widget is a quick-and-easy shortcut to access a URL from the Marketplace Portal Dashboard. As with all custom widgets, link widgets display in the bottom row of the Dashboard.

Use the **Create KeyPair** dialog to create a custom link widget. The **type** value must be set to **LINK**. With link widgets you customize the link URL, display name, icon image, background image, and the HTML target.

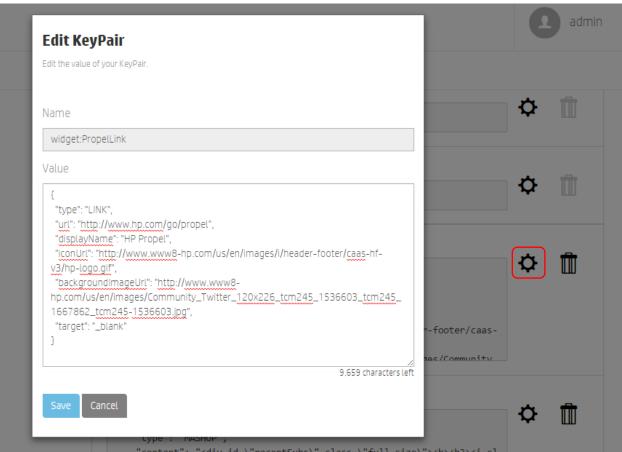
Value Items	Description
type	Must be set to LINK
url	URL that the link references in the Marketplace Portal.
displayName	Optional name to be displayed on the widget.
iconUrl	Optional URL of an icon that displays near the center of the widget.
backgroundlmageUrl	Optional URL of an image that fills the background of the widget.
target	Optional target attribute of the link> element that appears in the Marketplace Portal and that controls the browser window in which the link will open. Valid values for the target attribute are defined in the HTML specification.

Tip: If new to creating widgets, review existing custom widgets on the Dashboard and associated details in the **Edit KeyPair** dialog to help in creating new widgets.

HP Propel Page 19 of 32

Following is the content for the custom link widget on our Dashboard.





Featured Service Widget

During organization creation and configuration, any category of services can be set as a featured category. Service offerings published under that category are treated as featured service offerings and can be viewed by selecting the default **Featured Services** widget in the **Shop for Services** area of the Dashboard.

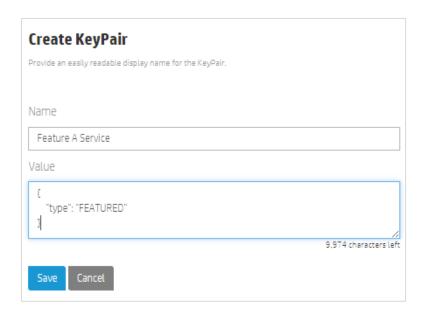
You can further highlight these service offerings by creating a featured service custom widget. The featured service custom widget selects a random service from the featured services list and provides a link for easily viewing that service's details. The service selected will randomly change each time the Dashboard is refreshed.

Note: The Marketplace Portal does not support pinning a specific featured service to this custom widget.

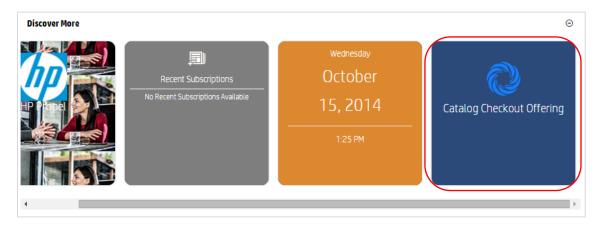
HP Propel Page 20 of 32

Use the **Create KeyPair** dialog to create a custom feature service widget. The **type** value should be set to **FEATURED**. There is no other JSON content for Featured Service widgets.

Value Items	Description
type	Must be set to FEATURED .



We now see a fourth custom widget in the Dashboard:



Mashup Widget

Mashup widgets give administrators the ability to define more complex widgets to meet an organization's needs. These might be generally useful widgets such a calendar or clock, or perhaps widgets for HP Propel-specific information such as recent subscriptions as shown in several examples in this document.

Mashups widgets require **type** be set to **MASHUP**. Mashup widgets contain one other key:value pair, **content**, which contains the source for your mashup.

Note: All double quotation marks (") must be escaped (\") in the mashup widget content.

Value Items	Description
type	Must be set to MASHUP .

HP Propel Page 21 of 32

content

The HTML and JavaScript code for the mashup.

When using iFRAME in a mashup widget, note the following:

 iFrames that serve HTML pages that have the same URL structure as the Marketplace Portal will work properly. The same URL structure means that the pages are placed in the following Marketplace Portal directory:

```
/opt/hp/propel/mpp/node modules/mpp-ui/dist
```

For example, to correlate to the following URL structure:

```
https://server:8089/widgets/sample/index.html
```

You would place your pages in the following location:

```
/opt/hp/propel/mpp/node_modules/mpp-
ui/dist/widgets/sample/index.html
```

- iFrames that serve external NON-HTTPS content will be blocked by the browser. The specific error will vary based on client browser security.
- iFrames that serve external HTTPS content that contains mixed HTTP and NONHTTPS content will be blocked by the browser. The specific error will vary based on client browser security.
- iFrames that serve external HTTPS content will work only if the following are true:
 - The remote site must not specify x-frame-options DENY in the response header.
 - If the content is not of the same origin domain, and the remote site has not specified x-frame-options SAMEORIGIN, the content will display properly.

Example custom widget: Clock

```
"type": "MASHUP",
   "content": "<div style=\"background-color:#DC882F;background-image: url(''); color:
#FFFFFF; font-family: HPSimplified; font-size: 18px; background-repeat: no-repeat; padding-left:
20px;padding-top: 20px;padding-right: 20px;padding-bottom: 20px;line-height: .7;height:100%; \"><p
id=\"weekday\" style=\"font-size: 18px;\">-<h1 id=\"month\" style=\"font-size: 36px;\">-
style=\"color: #FFF;\"/><span id=\"hmm\">-</span> <span</pre>
id=\"mpm\">-</span></div><script type=\"text/javascript\">function startClock() { var months type=\"text/javascript\">function startClock() } 
= [ \"January\", \"February\", \"March\", \"April\", \"May\", \"June\", \"July\", \"August\",
\"September\", \"October\", \"November\", \"December\" ]; var weekdays = [\"Sunday\", \"Monday\",
\"Tuesday\", \"Wednesday\", \"Thursday\",\"Friday\",\"Saturday\"]; function updateClock() { var
now = new Date(); var hours = now.getHours(); var minutes = now.getMinutes(); var ampm = \"AM\";
if (Math.floor(hours/12) == 1) { ampm = \"PM\"; hours = hours - 12; } if (hours == 0) { hours = 12;
} var ms = \"\" + minutes; if (ms.length == 1) { ms = \"0\" + ms; } try {
document.getElementById(\"weekday\").textContent = weekdays[now.getDay()];
document.getElementById(\"month\").textContent = months[now.getMonth()];
document.getElementById(\"day\").textContent = now.getDate();
document.getElementById(\"year\").textContent = now.getFullYear();
document.getElementById(\"hmm\").textContent = hours + \":\" + ms;
document.getElementById(\"ampm\").textContent = ampm; } catch (err) {
clearInterval(clockInterval); } updateClock(); var clockInterval = setInterval(updateClock,
1000); }startClock(); </script>"}
```

HP Propel Page 22 of 32



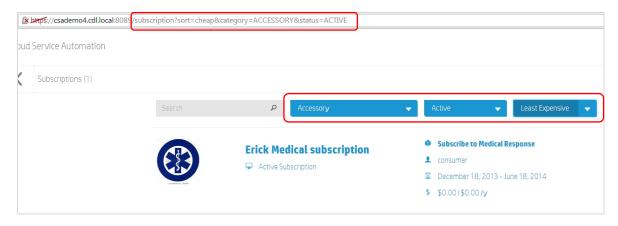
Example HP Propel-specific custom widget: 5 Most Recent Subscription

```
"type": "MASHUP",
   "content": "<div id=\"recentSubs\" class=\"full-size\"><b><h3><i class=\"icon-subscription-
\verb| add "></i></h3><h5>Recent Subscriptions</h5></b>
id=\"list recent subscriptions\"></div><script type=\"text/javascript\">var $list =
$('#list recent subscriptions');function getSubscriptions(options) {$.ajax({type: \"GET\",url:
\"/api/subscription?count=5&offset=0&sort=newest\",success: function(data, textStatus, jqXHR) {if
(options.success) {options.success(data);}},error: function(jqXHR, textStatus, errorThrown)
{console.log(\"Widget Error: Failed to retrieve 5 recent subscriptions\");}});}function
htmlEncode(value) {return $('<div/>').text(value).html();} function htmlDecode(value) {return
$('<div/>').html(value).text();}function render() {$list.empty();getSubscriptions({success:
function(data) {if (data && data.length > 0) {for (var i = 0; i < data.length; i++) {var name =
data[i].name;var id = data[i].id;var url = \"/subscription/\" + id;if(i < data.length-</pre>
1){$list.append(\"<a class='ellipses widget-label' target=' parent' href='\" + url +
class='ellipses' target=' parent' href='\" + url + \"'>\" + htmlEncode(data[i].name) +
\"(a>");}} else {\list.append(\"No Recent Subscriptions Available\");}}
});}render(); </script><style type=\"text/css\">#recentSubs {font-
family: HPSimplified, Helvetica, Arial, sans-serif; background-color: #7e7e7e; padding: 10px; color:
white; font-weight: 500; } #recentSubs > b > h5 {margin: 0px;padding-bottom: 10px;border-bottom: 1px
left: 0px;margin: 0px;}#recentSubs > ul > li {display: block;padding-top: 5px;padding-bottom:
5px;border-bottom: 1px solid rgba(255,255,0.5);}#recentSubs > ul > li:last-child {border-
bottom: none; } #recentSubs > a {color: white; text-decoration: none; } #recentSubs > ul > li > a > p
{margin: 0 0 5px;word-wrap:normal;}#recentSubs > a:visited {color: white;}#recentSubs > a:hover,
#recentSubs > a:focus {color: #1897d3;}</style>"
```

Note: The key function in the above HP Propel-specific widgets is the url: "/api/subscription?count=5&offset=0&sort=newest&status=Active".

The options to "/api/subscription?" can also be seen in the URL when the Subscriptions page is visited using the Marketplace Portal, as shown below.

HP Propel Page 23 of 32



Limitations and Requirements

From a performance perspective, additional widgets will take more time to retrieve the associated data. This will result in slower rendering of the Marketplace Portal Dashboard. This impacts actions such as:

- Login time.
- Refreshing the Dashboard view.
- Returning back to the Dashboard.

When you create custom widgets, be aware of the following limitations and requirements:

- Variables are shared by widgets. If you are using the same variable name, e.g. list, in multiple
 widgets, unexpected behavior will result if "list" is assigned different values in the widgets'
 content.
- Widgets cannot be shared between organizations. Widgets must be created for each organization.

Additional Ways to Customize Widgets

There are several ways to customize widgets in the Marketplace Portal. As long as you adhere to the security restrictions around running external scripts on HTTPS you can implement widgets anyway you want. However, some approaches are simpler than others.

For convenience, custom widgets have access to jQuery and SugarJS. When you use the jquery.ajax() function to make calls to the Marketplace Portal APIs, the user session authorization token will be automatically included. You do not need to extract the user data from the session.

Optionally, you can extend this code to include an inline <style> tag for more complex CSS cases:

```
</script><style type=\"text/css\">#expensiveSubsDiv>p{color:black}</style>
```

When you append a style tag, wrap your widget in a top level div, such as <div id=\"expensiveSubsDiv\">. This will ensure help that your styling does not contaminate elements outside of your widget.

Using jQuery, combined with SugarJS, should make developing widgets relatively simple, even when you use data from HP Public APIs, as shown in the example above. However, there are limitations when running external scripts in an HTTPS environment. Do not expect to be able to copy and paste an iframe from a widget-generating website when running in an HTTPS environment. This is not supported at the browser level.

HP Propel Page 24 of 32

Using the IFrame Technique

Due to limitations of widgets you might find that trying to store your entire mashup widget in the **content** value of the body can be quite a challenge when having to escape (\) quotation marks in your source, e.g. "<div id=\"recentSubs\">...". Using the Iframe technique will enable you to create much more complicated widgets with much less frustration.

```
For example:
```

```
{
   "type": "MASHUP",
   "content": "<iframe src=\"widgets/IFrameSample/index.html\"
height=\"100%\" width=\"100%\"></iframe>"
}
```

This is an example of code that will leverage the IFrame technique in a mashup widget. It's important to note that the height and width of the IFrame should be set to 100% to fill the space available within the widget. You are still required to escape quotation marks within the **content**; however the issue is significantly reduced by moving the bulk of your source code out of the widget's content in the Management Console's **Organization Customization** area, and onto your HP Propel system. The location for your files is: /opt/hp/propel/mpp/node_modules/mpp-ui/dist.

In the **dist** folder you can create a subfolder for your custom widgets. In the example above this subfolder was named **widgets**. The related files for this one widget were placed into subfolder **IFrameSample**. Add your .html, .css & .js files and reference the index.html file in your IFrame src attribute as shown above.

Note: When using the IFrame technique you will not have access to any scripts used by the Marketplace Portal (including jQuery, sugarJS & AngularJS), so you will need to reference a public version of any scripts or libraries your widget uses, or more ideally, search the mpp-ui/dist/bower_components folder and reference available libraries there.

```
Jquery: <script src="/bower_components/jquery/dist/jquery.min.js"></script>
SugarJS: <script src="/bower_components/sugar/release/sugar.min.js"></script>
AngularJS: <script src="/bower_components/angular/angular.min.js"></script>
MPP-Theme: <link rel="stylesheet" href="/bower_components/mpp-theme/dist/main.css"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>
```

You will have access to the HP Propel specific APIs as long as your IFrame source code is on the same domain as the Marketplace Portal (that is, as long as the source code for the IFrame is in the portal dist folder listed above)

Following is the content of the html, css & js files related to this sample IFrame widget.

widgets/IFrameSample/index.html:

HP Propel Page 25 of 32

Widgets/IFrameSample/style.css

```
body {
  background-color:#7e7e7e;
  padding:10px;
 color:white;
  font-weight:500;
}
h5 {
  margin:0px;
  padding-bottom:10px;
 border-bottom:1px solid white;
  font-weight:500;
}
ul {
  padding-left:0px;
  margin:0px;
ul > li {
  display:block;
  padding-top:10px;
  padding-bottom:10px;
  border-bottom:1px solid rgba(255,
  255,
  255,
  0.5);
ul > li:last-child {
  border-bottom:none;
}
a {
  color:white;
  text-decoration:none;
a:visited {
  color:white;
a:hover,
```

HP Propel Page 26 of 32

```
a:focus {
  color:#1897d3;
}
```

widgets/IFrameSample/script.js:

```
function getSubscriptions(options) {
 $.ajax({
   type: "GET",
   url: "/api/subscription?count=5&offset=0&sort=newest",
   success: function (data, textStatus, jqXHR) {
     if (options.success) {
       options.success(data);
     }
   },
   error: function (jqXHR, textStatus, errorThrown) {
     console.log("Widget Error: Failed to retrieve 5 recent subscriptions");
 });
}
function htmlEncode(value) {
 //create an in-memory div, set its inner text(which jQuery automatically encodes)
 //then grab the encoded contents back out. The div never exists on the page.
 return $('<div/>').text(value).html();
}
function htmlDecode(value) {
 return $('<div/>').html(value).text();
function render() {
 getSubscriptions({
    success: function (data) {
     var $list = $('#list');
     $list.empty();
     if (data && data.length > 0) {
       for (var i = 0; i < data.length; i++) {
         var name = data[i].name;
         var id = data[i].id;
         var url = "/subscription/" + id;
         if (i < data.length - 1) {</pre>
           $list.append("<a class='ellipses widget-label' target=' parent'</pre>
href='" + url + "'>" + htmlEncode(data[i].name) + "</a>");
          } else {
           $list.append("<a class='ellipses' target=' parent' href='" + url +</pre>
"'>" + htmlEncode(data[i].name) + "</a>");
         }
       }
      } else {
       $list.append("No Recent Subscriptions Available");
    }
 });
```

HP Propel Page 27 of 32

```
render();
```

Appendix A: Example Configuration File Format

Following is example format of content that could be included in the Dashboard configuration file found at /opt/hp/propel/mpp/conf/dashboard.json.

```
header: {
   image: // Image takes precedence when both image and icon is set
    icon: {
      className: //predefined icon/glyphs available in the app
     url: //internal or external url to the image
    },
    description:
    link: { //see header section below for more info
      [target]: // url target for the link
      [label]:
    },
    style: // space delimited predefined styling class
   backgroundImage: // Image takes precedence when both backgroundColor and
backgroundImage is set
 },
  sections: [
    // Custom Section
      label: // used for customized section
      seeMore: { //see section details below for more info
       url: // specify internal or external url
        [label]:
        [target]:
      style: // space delimited predefined styling class
      role: // list of strings. See "Server Design" below for more detail
        default: {
          style: // space delimited predefined styling class
        items: [
          {
            link: { //see tile details below for more info
             url: // specify internal or external url
              [label]:
              [target]:
            },
            role: // list of strings. See below for more detail
            hotKey: // hotkey to activate the tile. When used it behaves the
same way as clicking the tile
            image: //image takes precedence if image and icon are both
defined.
              className: //predefined icon/glyphs available in the app
              url: //internal or external url to the image
```

HP Propel Page 28 of 32

```
style: // space delimited predefined styling class
            backgroundImage: // backgroundImage takes precedence to what is
set on the style
            count: { // optional
             url: // specify an URL endpoint where it would return a count
              style:
          }
        ]
      }
    { // Tiles will be loaded dynamically on the Node.js depending on the
section type ;
      [type]: {
        name: [CATALOG CATEGORY | WIDGET],
        [category]: [FEATURED CATEGORY | NEW RELEASES | MOST REQUESTED |
[CATEGORY NAME] // only relevant if name is set to CATALOG CATEGORY
      },
      label:
      seeMoreLabel:
      seeMoreUrl:
      tiles: [ // Optional ; In case of pre-defined section it will
automatically load the appropriate tiles and append it to this list
          label:
          icon: {
           url: //internal or external url to the image
          link:
        },
          label:
           url: //internal or external url to the image
         link:
        }
      1
    },
```

Appendix B: Glyph Icons

The Marketplace Portal styling framework provides a collection of glyph icons that can be used throughout the application. To reference these, use the HTML class names shown in the following:

HP Propel Page 29 of 32

Marketplace Portal Widget Customization

@ icon-zoom-out	® icon-zoom-in	ä icon-youtube	
icon-web	® icon-view	■ icon-video	O icon-validation-denied
o icon-validation-approve	icon-validation-alert	1 icon-user	±- icon-user-delete
1+ icon-user-add	icon-unlock		☐ icon-tv
₹ icon-trophy	★ icon-travel	🗓 icon-trash	
icon-toolbox			
☐ icon-tablet	♦•♦ icon-surround	■ icon-subscription	O icon-stop
© icon-status	★ icon-star	□ icon-stamp	^{tec} icon-spell-check
◆ icon-speaker-mute	• icon-speaker-medium	◆ icon-speaker-max	◆ icon-speaker-low
≍ icon-shuffle	icon-sheild	• icon-settings	iil icon-settings-verticle
icon-settings-horizontal	* icon-services	■ icon-server	₽ icon-search
X icon-scissors	à icon-rss	icon-rocket	← icon-rewind
icon-repeat	‡ icon-relationship	G icon-refresh	∞ icon-record
⊚ icon-radar	66 icon-quote-start	99 icon-quote-end	
▲ icon-process		(b) icon-power	⊙ icon-play
☐ icon-phone	⊙ icon-pending	☐ icon-payment	II icon-pause
☐ icon-page	☐ icon-page-new	icon-page-multiple	
\$€ icon-options	♣ icon-notification	icon-network	
ill icon-mystuff	icon-mug	0 icon-mouse	🖵 icon-monitor
∮ icon-microphone	⅓ icon-microphone-mute	⇒ icon-menu-expand	≈ icon-menu-collapse
■ icon-mail	[∞] icon-loop	icon-logout	icon-login
≘ icon-lock	icon-location	icon-locale	2 icon-loading
≡ icon-list	o⁰ icon-link		♀ icon-lightbulb
IIIi icon-library	icon-legal	icon-leaf	☐ icon-laptop
△ icon-labs	☐ icon-keyboard	♠ icon-key	i icon-information
□ icon-inbox	icon-image	≣≣ icon-hybrid	(D) icon-hp
# icon-home	♥ icon-heart		☐ icon-hd-raid

HP Propel Page 30 of 32

Marketplace Portal Widget Customization

➢ icon-hammer	■ icon-grid	⊕ icon-globe	⊌ icon-git
∰ icon-gift	√ icon-fox	icon-folder	o icon-flame
★ icon-flag	icon-first-aid	□ icon-finder	♥ icon-filter
⇒ icon-fast-forward	icon-facebook	☐ icon-export	→ icon-export-option
30 icon-expand	icon-emoticon-surprised	icon-emoticon-sad	● icon-emoticon-happy
··· icon-ellipses	∅ icon-edit	• icon-drop	🖰 icon-download
	icon-dot	° icon-donut	icon-documents
icon-document	₱ icon-dislike	₹ icon-disconnect	icon-desktop
icon-delivery	⊙ icon-delete-circle	icon-date	: icon-dashboard
icon-cube-solid	⊕ icon-cube-outline	© icon-copyright	icon-contract icon-contract
性 icon-contacts	× icon-connections	> icon-connection	O icon-code
♣ icon-cloud	♠ icon-cloud-upload	• icon-cloud-download	× icon-close
O icon-clipboard	☐ icon-clip	∄ icon-child	
■ icon-chat	■ icon-chat-session	⊙ icon-chart-pie	♣ icon-chart-line
ill icon-chart-bar	■ icon-catalog	₩ icon-cart	☐ icon-carousel
☐ icon-calendar	≌ icon-calculation	icon-business	icon-bullseye
ℜ icon-bug	■ icon-bookmark	icon-blueprint icon	38 icon-barcode
III icon-barcode-option	icon-attachment	* icon-asterik	? icon-assistance
⊕ icon-assistance-option	▲ icon-arrow-up	↔ icon-arrow-span	+ icon-arrow-pan
→ icon-arrow-forward	► icon-arrow-forward-option	▼ icon-arrow-down	+ icon-arrow-back
◆ icon-arrow-back-option	icon-archive	icon-applications	▲ icon-alert
icon-alert-option	■ icon-address-book	+ icon-add	□ icon-add-document
	1 icon-access	t icon-id t	+ icon-arrow-down-option
† icon-arrow-up-option	✓ icon-checkmark	♠ icon-home-2	■ icon-stop-option
► icon-play-option	≜ icon-restart	\$ icon-cost	con-approvals-option
± icon-review-option	» icon-arrow-dash-forward	« icon-arrow-dash-back	> icon-arrow-line-forward
Cicon-arrow-line-back		♣ icon-halt	✓ icon-pointer
		icon-traffic-option	icon-plug

HP Propel Page 31 of 32

Marketplace Portal Widget Customization

⊎ icon-plug-option	U icon-magnet	icon-organization-option	F icon-magic-wand
☐ icon-layout	♠ icon-bug-option	I≜ icon-sort-low	IF icon-sort-high
11 icon-sort	₩ icon-brick	∂ icon-link-option	
→ icon-infinate-option	∞ icon-infinate	■ icon-windows	★ icon-apple
icon-linux		icon-calendar-option icon-calendar-option icon-ca	icon-checkout-complete
₫ icon-linux		図 icon-calendar-option	
	₩ icon-cart-option	₩ icon-cart-next	₩ icon-cart-complete
icon-measure	Q. icon-measure-option	亚 icon-weigh	△ icon-rule
/ icon-rule-option	# icon-thermometer	✓ icon-thermometer-option	■ icon-bookmark-option
⊕ icon-peace	6J icon-review	o icon-approvals	^ icon-arrow-line-up
✓ icon-arrow-line-down	● icon-emoticon-happy-2	icon-emoticon-smile	icon-emoticon-angry
▲ icon-emoticon-poo	☐ icon-cpu	™ icon-subscription-add	icon-pause-option
icon-refresh-option	5 icon-saved	 icon-square 	icon-square-hp
① icon-application-off	icon-applications-on	→ icon-application-on-option	c icon-application-off-option
icon-star-half icon-star-half	■ icon-wallet		
🦈 icon-umbrella	⊕ icon-radioactive	icon-expand-option	icon-contract-option
Q icon-chat-session-2	con-conversation	☼ icon-sun	□ icon-settings-option
icon-linkedin	♀ icon-dropbox	∅ icon-internet-explorer	6 icon-chrome
○ icon-firefox	⊞ icon-trash-option	illa icon-organization	♠ icon-robot
	• icon-diamond	• icon-club	• icon-sapde
icon-archive-option	€ icon-moon	o icon-phase-complete	icon-phase-start
icon-phase-cresent	C icon-phase-gibson	4 icon-share	o icon-watch
∓ icon-pin		icon-battery-full	Dicon-battery-half
□ icon-battery-empty	N icon-in-progress	• icon-new	! icon-urgent
	O icon-active	● icon-active-option	
O icon-inactive	≭ icon-dog	⋓ icon-halt-option	🖫 icon-service-offline
🖳 icon-service-reserved	🖳 icon-service-transitioning	🖫 icon-service-deploy	/ icon-edit-option
	icon-service-fail	☑ icon-service-active	

HP Propel Page 32 of 32