



Hewlett Packard
Enterprise

HPE Propel

Software version 2.20

Customizing Launchpad

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Documentation release date: July 2016

Software release date: July 2016

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Introduction

Your administrator can customize the display of the HPE Propel Launchpad to meet your organization's needs.

Launchpad Configuration File

One of the primary configuration files involved in Launchpad customization is the configuration file:

`/opt/hp/propel/launchpad/conf/dashboard.json`. A detailed example content can be found in the **Launchpad Customization** section.

Note: The HPE Propel Launchpad service must be restarted after changes are made to the `dashboard.json` file. To do this, enter `service launchpad restart` from the command prompt. Users must log out, clear their browser cache, and log in again to see the changes.

Glyph Icons

The Portal styling framework uses a collection of open source glyph icons that can be used throughout the application. See [Appendix A: Glyph Icons](#).

Corporate or Organization Logo

A logo or picture for your company or organization can be used in the HPE Propel Launchpad and Portal. It will be displayed on the HPE Propel login page, in Launchpad, in the upper left-hand corner of Portal views, and in administrator UIs where appropriate.

Add a logo or picture as follows:

1. Access the organization administration user interface (UI). (Select **Identity** from Launchpad.)
2. Create a new organization or select an existing organization to modify.
3. Select **General Information**.
4. Enter the URL for a picture that represents the organization in the **Organization Picture URL** box.
5. Click **Save**.

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

Launchpad Customization

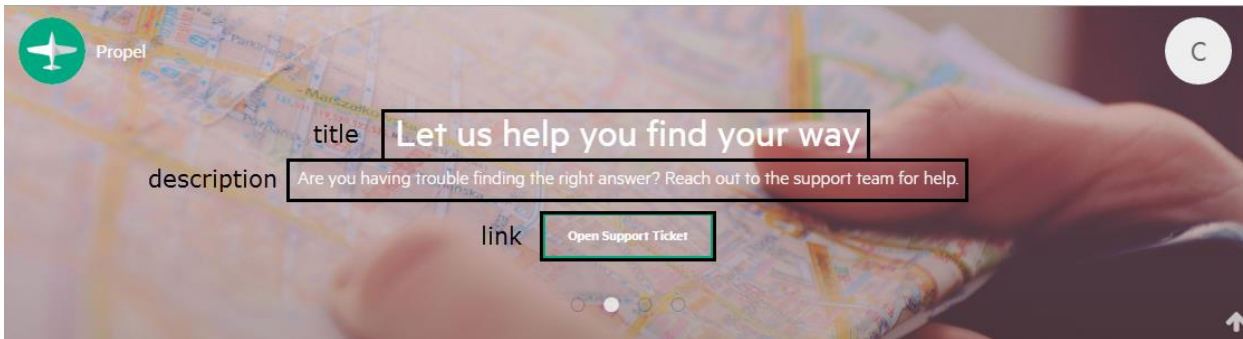
Banner

Launchpad banner customization is achieved by modifying the configuration file typically located at `/opt/hp/propel/launchpad/conf/dashboard.json`. A version of the `dashboard.json` file can optionally be customized for each organization. The filename should follow naming convention `dashboard.<organization name>.json`. For example, an organization named ACME would have a customized file named `dashboard.ACME.json`. Launchpad will automatically look for this file when a user from organization ACME logs in. If this file does not exist, the contents of `dashboard.json` will be used.

Note: The HPE Propel Launchpad service must be restarted after changes are made to the `dashboard.json` file.

As part of Launchpad banner customization, multiple banners can be defined. Each will be displayed for the specified time interval on a rotating basis. Customization is done by modifying the **header** content in the configuration file.

Following is an example banner with properties labeled for 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. Default: not specified.
Interval	If multiple banner items are defined, this value is the time in milliseconds to display one banner before switching to the next. Default: 5000 milliseconds.
items	Array or list of banners. Default: no banner displayed.
id	User defined string to identify this configuration file item.
title	Title to be displayed on the banner. Default: "No data to show".
role	User's role. Can be: CONSUMER, SUPPORT, CONTENT_ADMIN, CATALOG_ADMIN, AGGREGATION_ADMIN, SUPER_IDM_ADMIN
description	Description to be displayed under the title. Default: empty - no description displayed.
background	Specify one or more className values and optional image URL. Default: gray background.
className	<See list of valid values following this table.>
url	URL reference to an image. Can be an internal or external link.
link	URL link, or a link from current page to another.
url	URL address of next page. Can be an internal or external link.
target	Optional. Web page or browser target for the URL link. null or undefined default to using the same page ("self"). Possible values are: <ul style="list-style-type: none"> • _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. • <iframe>: Opens the link in the named browser frame.
label	Text label displayed on the link. Can be a static text string or a localized string predefined in the application resource bundle.
template	Template to use for the banner, either default or halfColumn . default uses all information defined for the banner. halfColumn displays content in the left half of the banner space, thereby allowing more of the background content to be viewed.

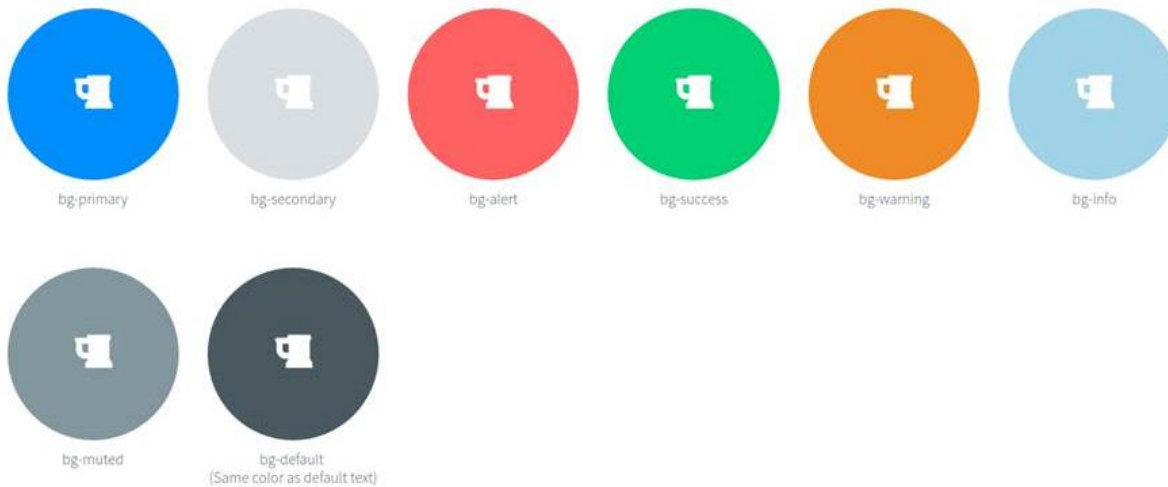
Banner **className** values

The following predefined **className** values are available (examples follow):

- Text colors:

- text-primary
- text-secondary
- text-alert
- text-success
- text-warning
- text-info
- text-muted
- Background colors:
 - bg-primary
 - bg-secondary
 - bg-alert
 - bg-success
 - bg-warning
 - bg-info
 - bg-muted
 - bg-default
- Border colors:
 - border-primary
 - border-secondary
 - border-alert
 - border-success
 - border-warning
 - border-info

Examples of **primary**, **secondary**, **alert**, **success**, **warning**, **info**, **muted** and **default** colors:



Example configuration file content format:

```
header: {  
  interval: Number, //in milliseconds  
  items: [  
    {  
      "id": String,  
      "title": String,  
      "role": String,  
    }  
  ]  
}
```

```

    "description": String,
    "background": {
      "className": String,
      "url": String
    }
    "link": {
      "label": String,
      "url": String
    },
  },
  ...
]
}

```

Following is example content that could be included in the configuration file typically found at `/opt/hp/propel/launchpad/conf/dashboard.json`. Each banner displays for 5 seconds before switching to the next banner.

```

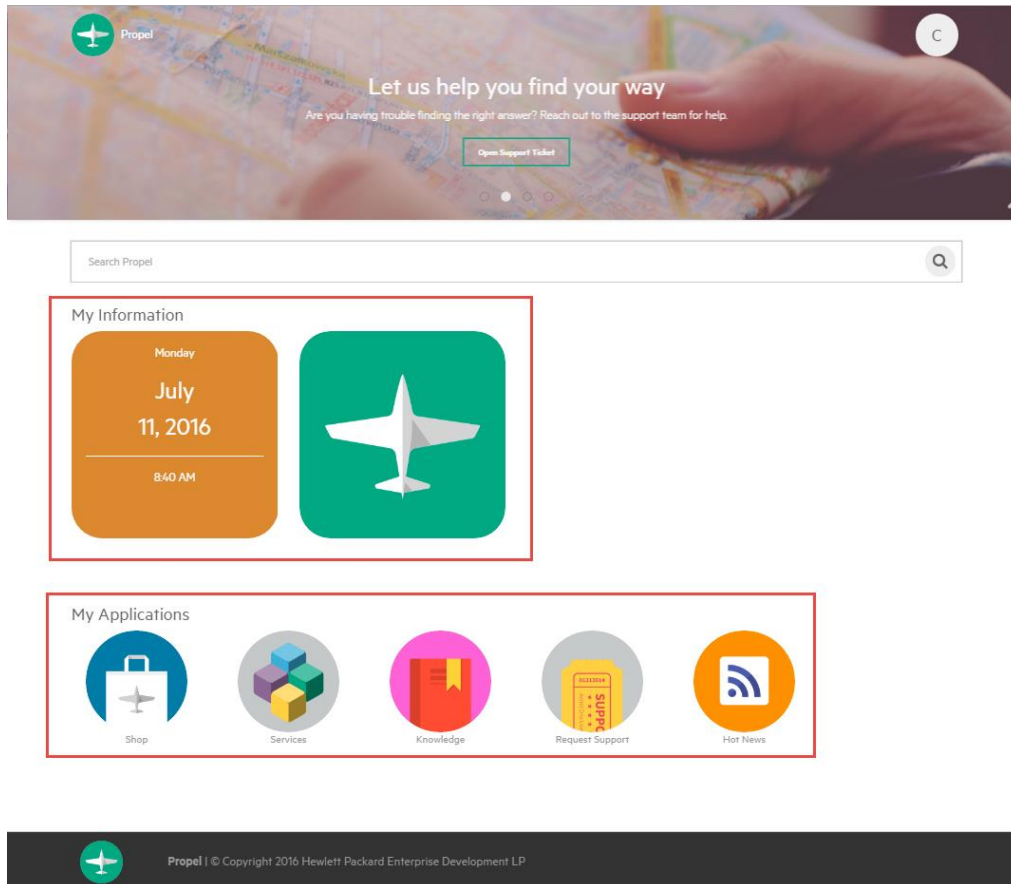
{
  "header": {
    "interval": 5000, // 5 seconds - speed of carousel autoplay
    "items": [
      { //The first banner uses assets available in the Portal, and uses the default
        template.
        "id": "dashboard-banner_service",
        "title": "lpd.dashboard.banner.service.title",
        "description": "lpd.dashboard.banner.service.description",
        "role": ["CONSUMER", "SUPPORT"],
        "background": {
          "url": "assets/launchpad/images/banner-01.png"
        }
      },
      { //The second banner specifies the halfColumn template, and includes a URL link
        button.
        "id": "dashboard-banner_support",
        "title": "lpd.dashboard.banner.support.title",
        "description": "lpd.dashboard.banner.support.description",
        "role": ["CONSUMER", "SUPPORT"],
        "template": "halfColumn",
        "link": {
          "label": "lpd.dashboard.banner.support.link",
          "url": "https://localhost:8089/#/support",
          "className": "border-alert text-alert bg-secondary"
        },
        "background": {
          "className": "text-primary bg-secondary",
          "url": "assets/launchpad/images/banner-02.png"
        }
      }
    ]
  }
}

```

Caution: It is recommended you verify that your modified `dashboard.json` file is a valid JSON format. A number of tools are available on the internet to do this.

Widgets and Tiles

Widgets and tiles can be added only to Launchpad; they cannot be added to applications or components such as the Shop app. Your administrator can add custom widgets and tiles to the **My Information** and the **My Applications** sections of Launchpad, shown in the following image.



My Applications section

HPE Propel's Launchpad **My Application** section is initially populated based on the user's role. This section contains tiles with static links. Administrators can create custom entries for the **My Application** section in configuration file `/opt/hp/propel/launchpad/conf/dashboard.json`.

There is no HPE Propel user interface for changing the content in the **My Applications** section of Launchpad; `dashboard.json` should be modified directly.

Following is example **My Applications** `dashboard.json` content:

```
{
  "label": "lpd.dashboard.sections.myApps",
  "tiles": {
    "items": [
      {
        "id": "dashboard-tile_mpp",
        "label": "endpoint.mpp",
        "role": ["CONSUMER", "SUPPORT"],
```



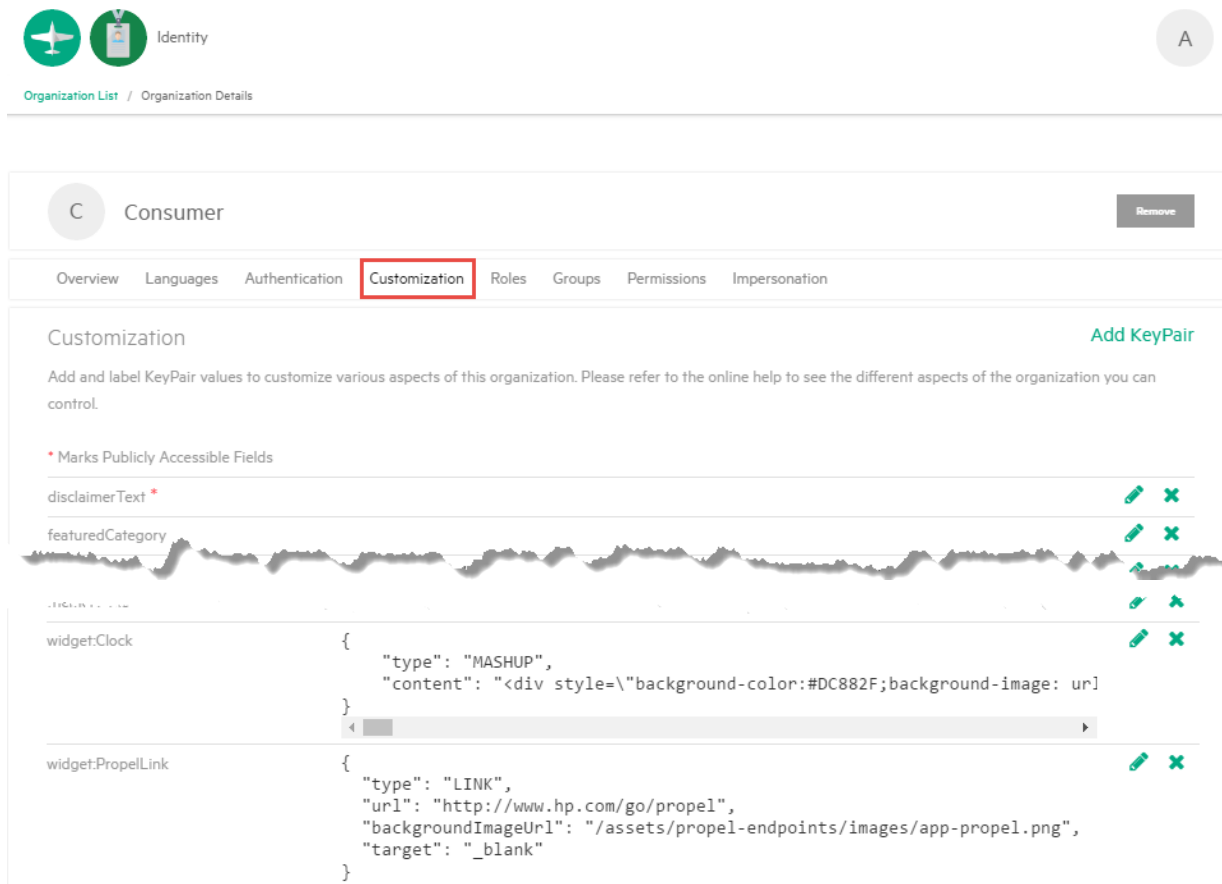
```

        "backgroundImage": "assets/propel-endpoints/images/app-marketplace.png",
        "link": "<hostname>:<port>"
    },
    {
        "id": "dashboard-tile_subscription",
        "label": "endpoint.subscription",
        "role": ["CONSUMER", "SUPPORT"],
        "backgroundImage": "assets/propel-endpoints/images/app-subscriptions.png",
        "link": "<hostname>:<port>"
    },
    ...
}
}
}
}

```

My Information section

Custom widgets in Launchpad's **My Information** section are defined per organization in HPE Propel's **Identity** application as shown in the following, and will be available to all users in that organization.




Notice that there are entries for two custom widgets corresponding to the two widgets under **My Information** in the previous Launchpad image.

Creating Widgets

Launchpad **My Information** section widgets are created in HPE Propel as key:value pairs in the **Customization** area of the **Organization List** view, accessed as follows:

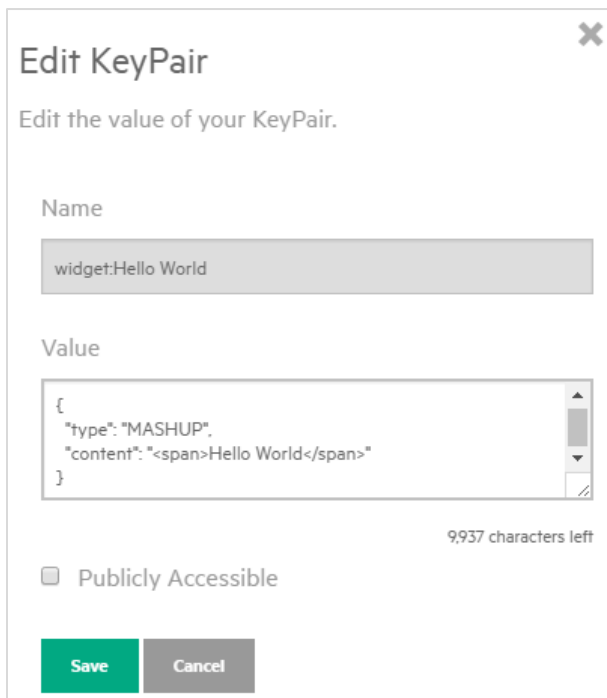
1. Click the **Identity** application in HPE Propel Launchpad.
2. Click the tile for the organization you want to customize.
3. Click **Customization**.

Note that user must be logged in with appropriate administrative privileges to access this view.

In the **Customization** view, edit existing properties by clicking on the edit icon  on the right side of the field, or to create a new widget, click the **Add KeyPair** button at the bottom of the **Customization** view. When finished, click **Save**.

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 1: Create KeyPair Example



HPE Propel Launchpad supports the following types of widgets:

- Link Widget
- Mashup Widget

The size of widgets and tiles in Launchpad is fixed. It is recommended that you not change the size of even complex mashup widgets as unexpected behavior can result.

Link Widget

A link widget is a quick-and-easy shortcut to access a URL from Launchpad. As with all custom widgets, link widgets display in the **My Information** section of Launchpad.

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 Launchpad.
displayName	Optional name to be displayed on the widget.
iconUrl	Optional URL of an icon that displays near the center of the widget.
backgroundImageUrl	Optional URL of an image that fills the background of the widget.
target	Optional target attribute of the <link> element that appears in Launchpad 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 in Launchpad and associated details in the **Edit KeyPair** dialog to help in creating new widgets.

Following is the content for the custom HPE Propel link widget in Launchpad.

The image shows a screenshot of the Launchpad interface. At the top, there is a 'My Information' section with a date widget showing 'Monday, July 11, 2016, 10:02 AM' and a green square widget with a white airplane icon. Below this is a 'Marketplace Portal' section with a grid of widgets. One widget in the grid is highlighted with a red box, and an 'Edit KeyPair' dialog is open over it. The dialog shows the following configuration:

- Name: widget:PropelLink
- Value:


```
{
    "type": "LINK",
    "url": "http://www.hp.com/go/propel",
    "backgroundImageUrl": "/assets/propel-endpoints/images/app-propel.png",
    "target": "_blank"
  }
```
- Publicly Accessible:

The dialog also indicates '9843 characters left' and has 'Save' and 'Cancel' buttons.

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 HPE Propel-specific information such as recent subscriptions.

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 .
content	<p>The HTML and JavaScript code for the mashup.</p> <p>When using iFRAME in a mashup widget, note the following:</p> <ul style="list-style-type: none"> iFrames that serve HTML pages that have the same URL structure as Launchpad will work properly. The same URL structure means that the pages are placed in the following directory: <pre style="margin-left: 40px;">/opt/hp/propel/launchpad</pre> <p>For example, to correlate to the following URL structure:</p> <pre style="margin-left: 40px;">https://server:8089/widgets/sample/index.html</pre> <p>You would place your pages in the following location:</p> <pre style="margin-left: 40px;">/opt/hp/propel/launchpad/widgets/sample/index.html</pre> 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 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 will work only if the following are true: <ul style="list-style-type: none"> 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

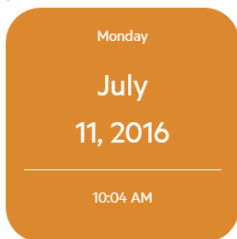
```
{
  "type": "MASHUP",

  "content": "<div style=\"background-color:#DC882F;background-image: url(''); color:
#FFFFFF; font-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;\"></p><h1 id=\"month\" style=\"font-size:
36px;color:white;\"></h1><h1 style=\"font-size: 36px;color:white;\"><span id=\"day\">-
</span>, <span id=\"year\"></span></h1><hr style=\"color: #FFF;border-color:white;\"/><p
```

```

style="font-size: 18px;"><span id="hmm"></span> <span id="ampm">-
</span></p></div><script type="text/javascript">function startClock() { var months = [
  \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>
}

```



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 Launchpad. This impacts actions such as:

- Login time.
- Refreshing the Launchpad view.
- Returning to Launchpad.

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, they must be created for each organization.

Additional Ways to Customize Widgets

There are several ways to customize widgets in Launchpad. As long as you adhere to the security restrictions for running external scripts on HTTPS you can implement widgets any way 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 HPE Propel Launchpad APIs, the user session authorization token will automatically be 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 your styling does not contaminate elements outside your widget.

Using jQuery, combined with SugarJS, should make developing widgets relatively simple, even when you use data from HPE Public APIs, as shown in the previous example. 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.

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 HPE Propel **Organization Customization** area, and onto your HPE Propel system. The location for your files is: */opt/hp/propel/launchpad*.

In the *launchpad* 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 and .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 Launchpad (including jQuery, sugarJS and AngularJS), so you will need to reference a public version of any scripts or libraries your widget uses, or more ideally, search the *launchpad/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>

You will have access to the HPE Propel specific APIs if your IFrame source code is on the same domain as Launchpad (that is, as long as the source code for the IFrame is in the *launchpad* folder).

Appendix A: Glyph Icons

The Launchpad styling framework uses a collection of open source glyph icons that can be used throughout the application. To reference these, visit the following open source site for information: <http://fortawesome.github.io/Font-Awesome/>.

Learn more at
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July 2016