

BIG-IP[®] Access Policy Manager[®] : Customization

Version 13.1



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Customization Basics

Overview: Customization and localization

Customization and localization are ways to change the text and the language that users see, and to change the appearance of the user interface for Access Policy Manager®.

About basic, general, and advanced customization

The Customization tool provides three types of customization.

Basic

Basic customization provides a limited set of options intended for quick modification of the objects that are most commonly displayed to users. It can be used to customize and localize common text labels and captions for objects. It can also be used to configure the basic look and feel for pages.

General

General customization enables configuration of a few additional objects and provides many more options for customizing objects, such as:

- The size, color, and placement of forms and screens.
- The look and feel of objects with more opportunities to replace images.
- Text on the screen, including headers and footers.
- Messages, including installation and error messages.

Any text or image that can be configured from visual policy editor, can also be configured using the general customization GUI.

Advanced

Advanced customization provides for any customization that can be effected using Cascading Style Sheets (CSS) and HTML.

About language choices

The set of languages that are available for use in an access policy is specified in the access profile. When customizing access profile objects, the accepted languages for the access profile are available for selection. When customizing resource objects, the languages for all access profiles are also available for selection.

About localization in the generated UI

Access profile objects and resource objects can have different language settings from one another. If it is available, the language of the user session is selected for use in the UI; otherwise, the default language for the access profile is selected.

About visual policy editor and general customization similarities

Some access policy items can be customized using either the visual policy editor or the Customization tool. After changes are made and saved in one (the visual policy editor, for example), updates are available to view in the other (the Customization tool); the reverse is also true.

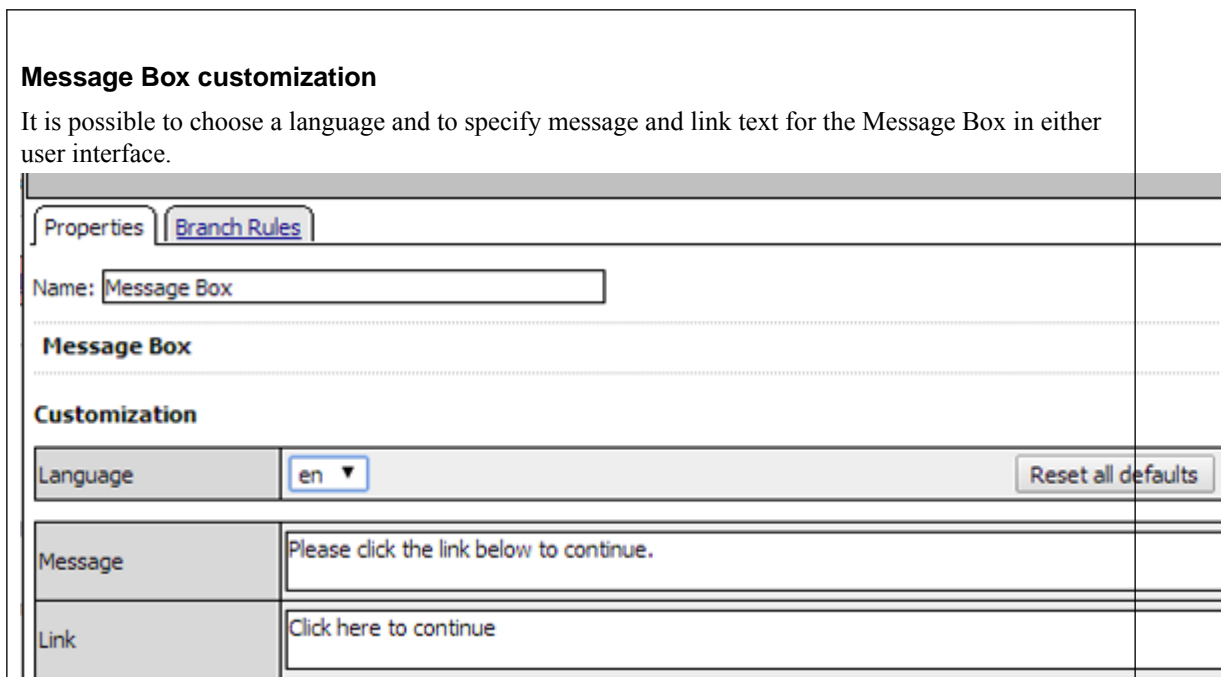


Figure 1: Visual policy editor Message Box customization

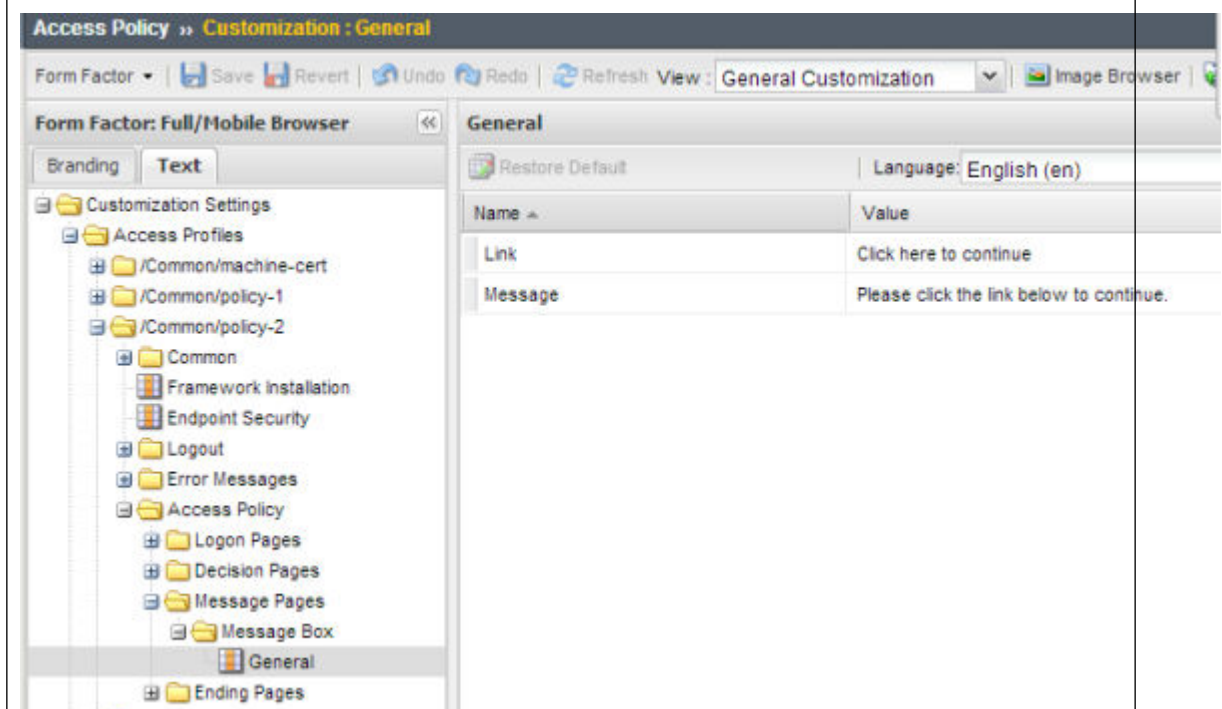


Figure 2: General customization for Message Box

How APM generates UI pages

Access profile objects and resource objects (customized independently from an access profile) are the same in terms of semantics and structure. Each object has a basic group of customization settings. An access profile, however, has more than one group of customization settings. Customized UI page

generation works similarly, in that the process takes an object, adds customization settings to it, and produces XML. Then, it adds a UI page template to the XML data to create a UI page.

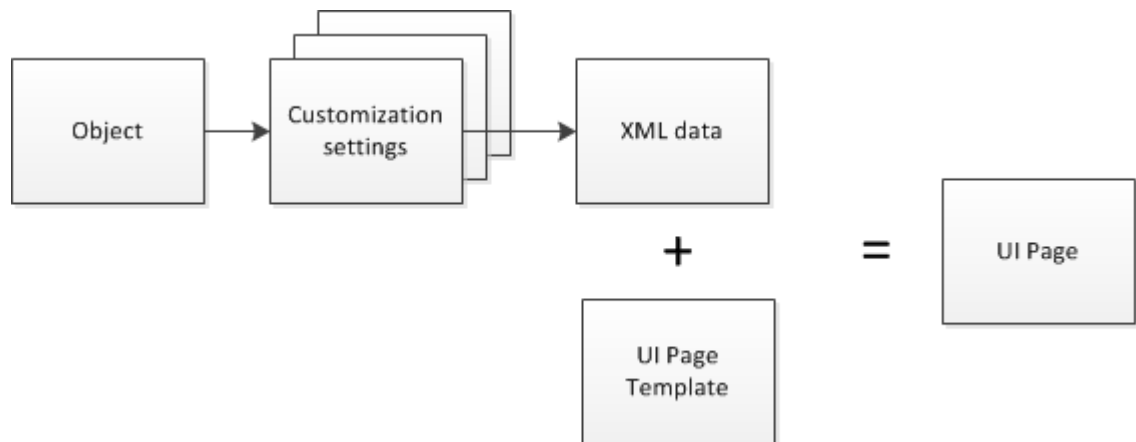


Figure 3: Process for creating a customized UI page

About UI page structure

The UI page structure is always the same when using basic or general customization. It includes three areas: header, footer, and content.

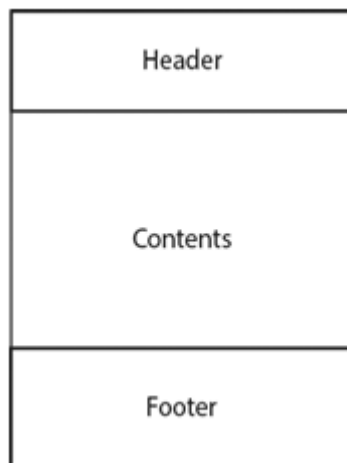


Figure 4: UI template

Settings (color, font, text, and so on) for the header and footer can be defined in access profile customization. Settings for the location and alignment of the content area can also be defined in access profile customization. Settings for an object that is displayed in the Contents area can be defined in customization of the object.

The UI page structure can be changed using advanced customization. It is possible to provide per-page headers or footers or to completely omit the header, the footer, or both.

Which objects can be customized?

Resource objects can be customized and reused in any access profile with an access policy that assigns resources. The following resource objects can be customized:

- Network access resources
- Remote desktops

- Webtops
- Webtop links
- Portal access resources
- App tunnels
- SAML resources

Access profiles and the objects that they contain can be customized. Access profile objects are specific to the particular access profile and are not available for reuse in other access profiles.

About access profile objects and settings

When performing customization, an access profile includes common settings, and settings for some of the objects that are included in the access policy.

Common

These settings affect any UI page that displays when the access profile runs. The settings affect text, such as headers and footers and commonly used messages, and look and feel.

Logout

Settings are available to specify an image and text for a page that displays on logout, when access is denied, when a new session must be started, and so on.

Logon Pages

Settings are available for logon page-type actions (logon page, HTTP 401 response, HTTP 407 response, VMware View logon) that are included in the access policy (directly or through the inclusion of a macro). Settings affect the text and look and feel for the specific object.

Message Pages

Settings are available for each specific Message Box action included in the access policy. The settings affect the text and look and feel for the specific object.

Decision Pages

Settings are available for each specific Decision Box action included in the access policy. The settings affect the text and look and feel for the specific object.

Ending Pages

Settings are available for an Ending Deny page and affect the text and look and feel for the page.

General Customization

General page style settings for access profiles

The table lists settings for customizing general page style in the General Customization view. Style sheet (CSS) settings are available for customization in the Advanced Customization view.

Name	Description
Page alignment	Alignment of the contents against the body if the width of the contents (Page width) is less than 100%.
Page background color	Background color of the page; corresponds to CSS <code>body { background-color: #XXXXXX }</code> .
Page width (px or %)	Width of the header, footer, and contents tables.

General page style settings illustration

The figure shows the result of setting page alignment to right and page width to 50% in the general page style settings for an access profile.

Page align right,
Page width 50%

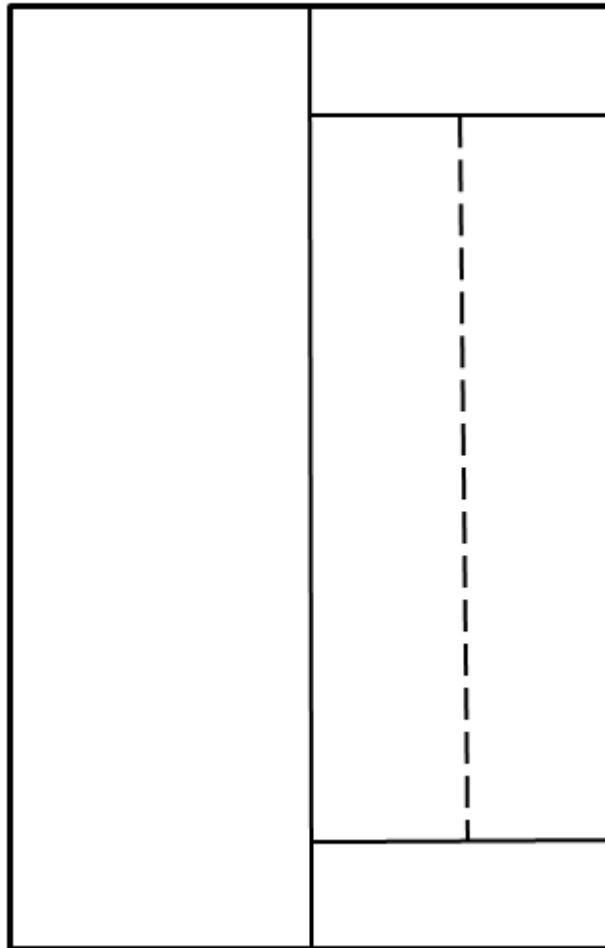


Figure 5: Access profile page general customization result

Font settings for access profiles

The table lists font settings for general page style customization. The style sheet (CSS) settings that are mentioned are available for customization in the Advanced Customization view.

Name	Description
Font family (comma-separated)	Font used on page; corresponds to CSS * { font-family:... }
Headline font size (px)	Corresponds to CSS font-size of headlines
Text font size (px)	Corresponds to CSS font-size of all other (non-headline) elements

Layout settings for access profiles

The table lists settings for customizing page layouts from the general customization view. Style sheet (CSS) settings are available for customization in the Advanced Customization view.

Name	Description
Form cell width (px or %)	Maximum width of the form cell.
Image cell width (px or %)	Maximum width of the image cell, or empty area if no image is provided. This setting has no effect if Page layout is set to Form Center .
Main table background color	Background color of the contents table. Overrides Page background color in General Page Style Settings . Corresponds to CSS <code>table#main_table { table_background_color: #XXXXXX }</code> .
Page layout	Location of the form cell: left, right, or center. When set to Form Left or Form Right and an image is specified, it displays opposite the form. When set to Form Center , whether an image is specified or not, no image displays. (Access policy items that support images are affected, including logon page, decision box, and message box.)

Layout settings illustration

This figure shows the proportions of a page with these page layout settings:

- Page layout - Form left
- Image cell width - 50%
- Form cell width - 50%

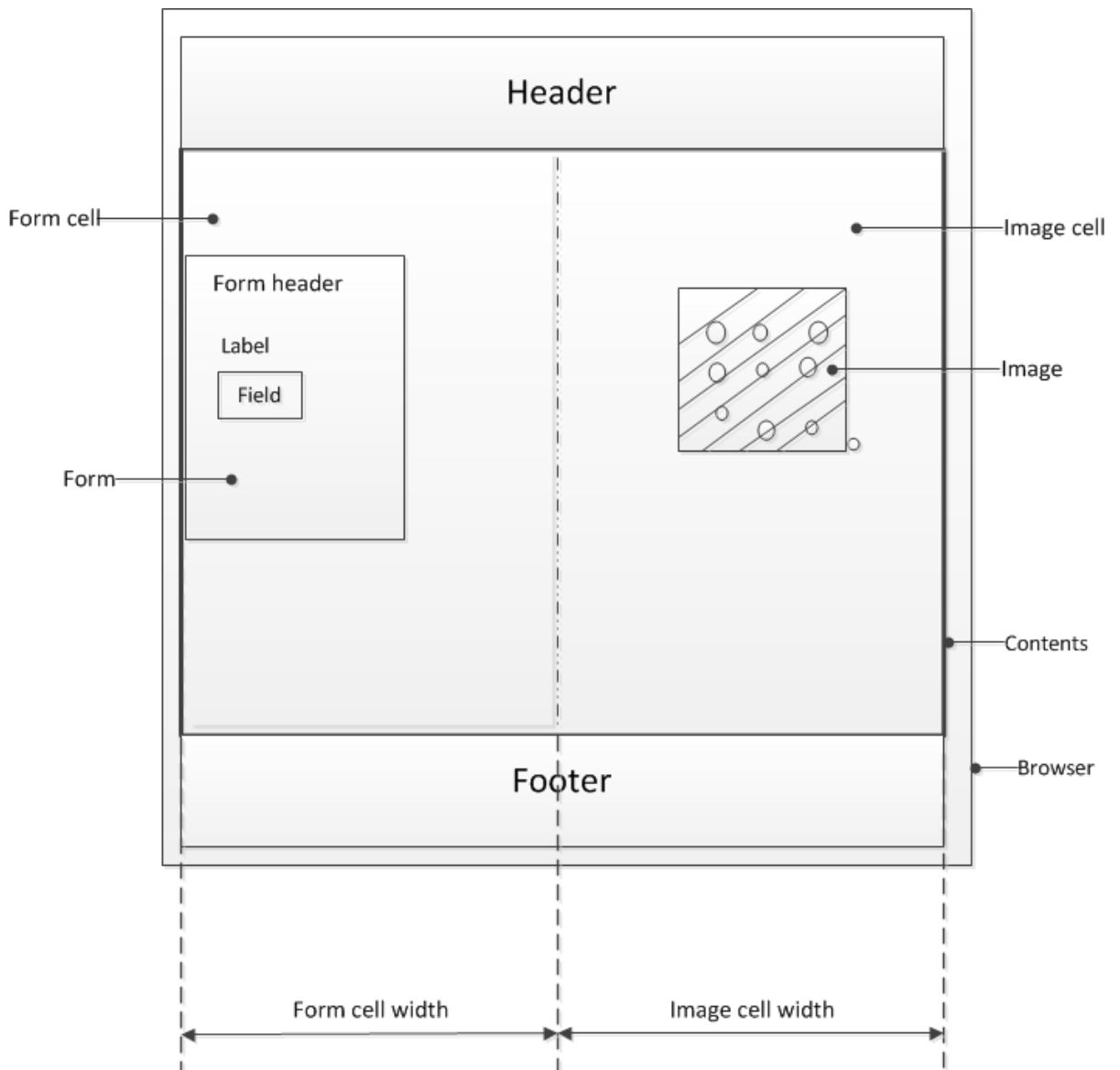


Figure 6: Access profile page layout default settings

The form cell is on the left. The image cell is opposite the form cell. The form cell and the image cell each fill 50% of the width of the content area.

Page header settings for access profiles

The table lists settings for customizing the page header style from the general customization view. Style sheet (CSS) settings are available for customization in the Advanced Customization view.

Name	Description
Disconnect icon	Image for disconnect button, 48 x 48 pixels or smaller.
Header background color	Corresponds to CSS <code>table#page_header { background-color: #XXXXXX }</code> .
Header left image (Full Size)	Corporate logo image, 80 x 80 pixels or smaller.

Name	Description
Header left image (Mobile Devices Size)	Corporate logo image, 32 x 32 pixels or smaller.

Page footer settings for access profiles

You can customize the following settings for the page footer style with the Customization tool. Style sheet (CSS) settings are available for customization in the Advanced Customization view.

Name	Description
Footer font size (px)	Corresponds to CSS <code>table#page_footer { font-size: ... }</code>

Image settings for access profiles

You can customize the following settings for the main page image with the Customization tool.

Name	Description
Default image	Image to display in the image cell.
Image left margin (px)	Left margin of the image.
Image right margin (px)	Right margin of the image.
Image top margin (px)	Top margin of the image.
Side image alignment	Horizontal alignment of the image within the image cell.

Form settings for access profiles

You can customize the following settings for the login form with the Customization tool. Style sheet (CSS) settings are available for customization in the Advanced Customization view.

Name	Description
Form alignment	Alignment of the form within the form cell.
Form background color	Background color for the form. Corresponds to CSS <code>table#main_table table#credentials_table{ background-color: %[form_background_color] }</code>
Form height (px, %, or auto)	Specifies the height of the form; when specified as %, it is a percentage of the height of the form cell.
Form left margin (px)	Left margin of the form.
Form right margin (px)	Right margin of the form.
Form top margin (px)	Top margin of the login form.

Name	Description
Form width (px or %)	Specifies width of the form width; when specified as %, it is a percentage of the width of the form cell.

Form settings illustration

This figure illustrates a form and its settings within a form cell.

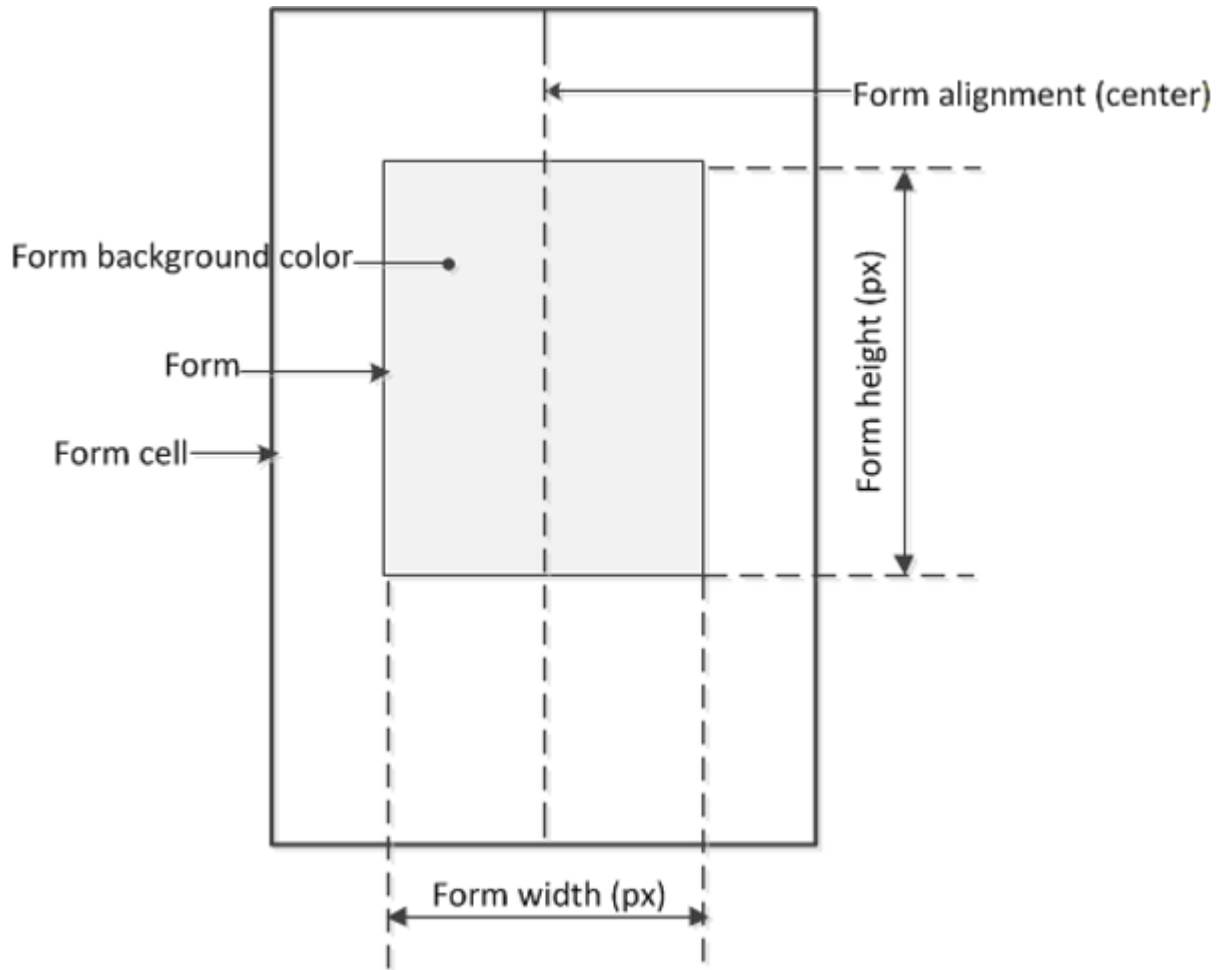


Figure 7: Access profile form cell, form, and form settings

Form element settings for access profiles

You can customize the appearance of elements in the logon form using these settings in the General Customization view.

Name	Description
Field alignment	Alignment of the fields against the form.
Field width (%)	Width of the input, password, and select fields as a percentage of the form width.
Header alignment	Alignment of the header in the form.
Label alignment	Alignment of labels to the corresponding input fields.

Name	Description
Label position	Position of field labels: above or to the left of their respective fields.
Label width (%)	Specifies a uniform width for field labels as a percentage of the form width.

Form element settings illustration

This figure illustrates the elements in a form configured with these setting values.

- Header alignment: center
- Label alignment: right
- Label width: 40%
- Label position: left
- Field alignment: right
- Field width: 50%

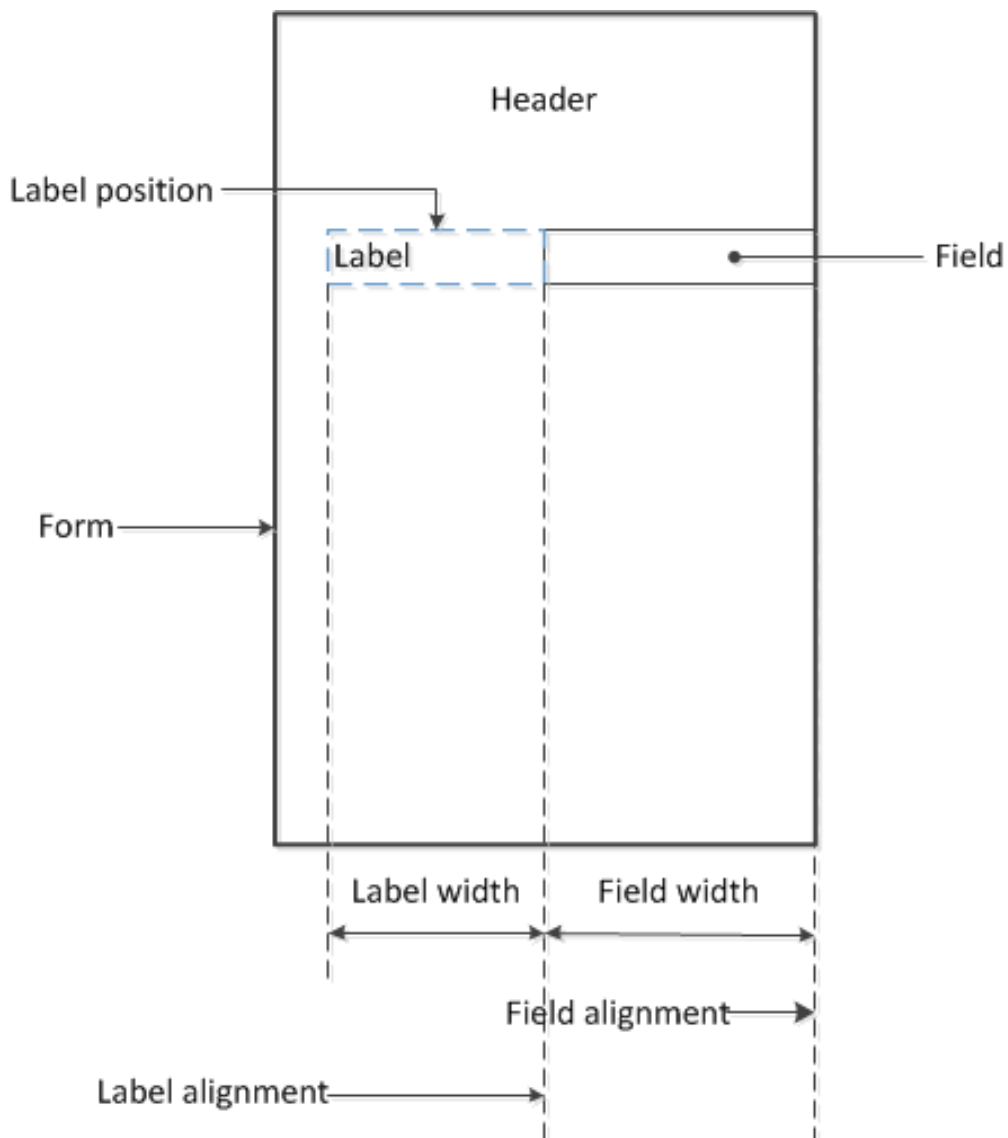


Figure 8: Access profile form elements and settings

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

About general customization for logon pages

Logon page customization depends to some extent on the logon page properties that are configured in the visual policy editor. Logon page properties include five fields that can be configured to accept some type of input or not (when the input type is set to **none**). Any field that does not accept input is hidden from the user at logon; however, it is not hidden in the customization user interface.

General customization for a logon page supports changing:

- The text on the screen, including the prompts for input fields.
- The image to display.

***Note:** These properties can also be updated from the visual policy editor. The same file is updated whether personalizing the logon page from general customization or the visual policy editor.*

Logon page field customization illustration

The type of input that a logon page field accepts can only be specified in the visual policy editor. If the type is **none**, the field cannot be customized in the visual policy editor and, at logon, it is hidden from the user. However, all five fields are always available for customization from the General Customization view.

Properties **Branch Rules**

Name:

Logon Page Agent

Split domain from full Username	<input type="text" value="No"/>
CAPTCHA Configuration	<input type="text" value="None"/>

	Type	Post Variable Name	Session Variable Name	Values	Read Only
1	<input type="text" value="text"/>	<input type="text" value="username"/>	<input type="text" value="username"/>		<input type="text" value="No"/>
2	<input type="text" value="password"/>	<input type="text" value="password"/>	<input type="text" value="password"/>		<input type="text" value="No"/>
3	<input type="text" value="none"/>	<input type="text" value="field3"/>	<input type="text" value="field3"/>		<input type="text" value="No"/>
4	<input type="text" value="none"/>	<input type="text" value="field4"/>	<input type="text" value="field4"/>		<input type="text" value="No"/>
5	<input type="text" value="none"/>	<input type="text" value="field5"/>	<input type="text" value="field5"/>		<input type="text" value="No"/>

Customization

Language	<input type="text" value="en"/>	<input type="button" value="Reset all defaults"/>
Form Header Text	<input type="text" value="Secure Logon
 for F5 Networks"/>	
Logon Page Input Field #1	<input type="text" value="Username"/>	
Logon Page Input Field #2	<input type="text" value="Password"/>	
Logon Button	<input type="text" value="Logon"/>	
Front Image	[Replace Image] [Revert to Default]	
Save Password Checkbox	<input type="text" value="Save Password"/>	

Figure 9: Logon Page customization of fields, language, and text in the visual policy editor (partial view)

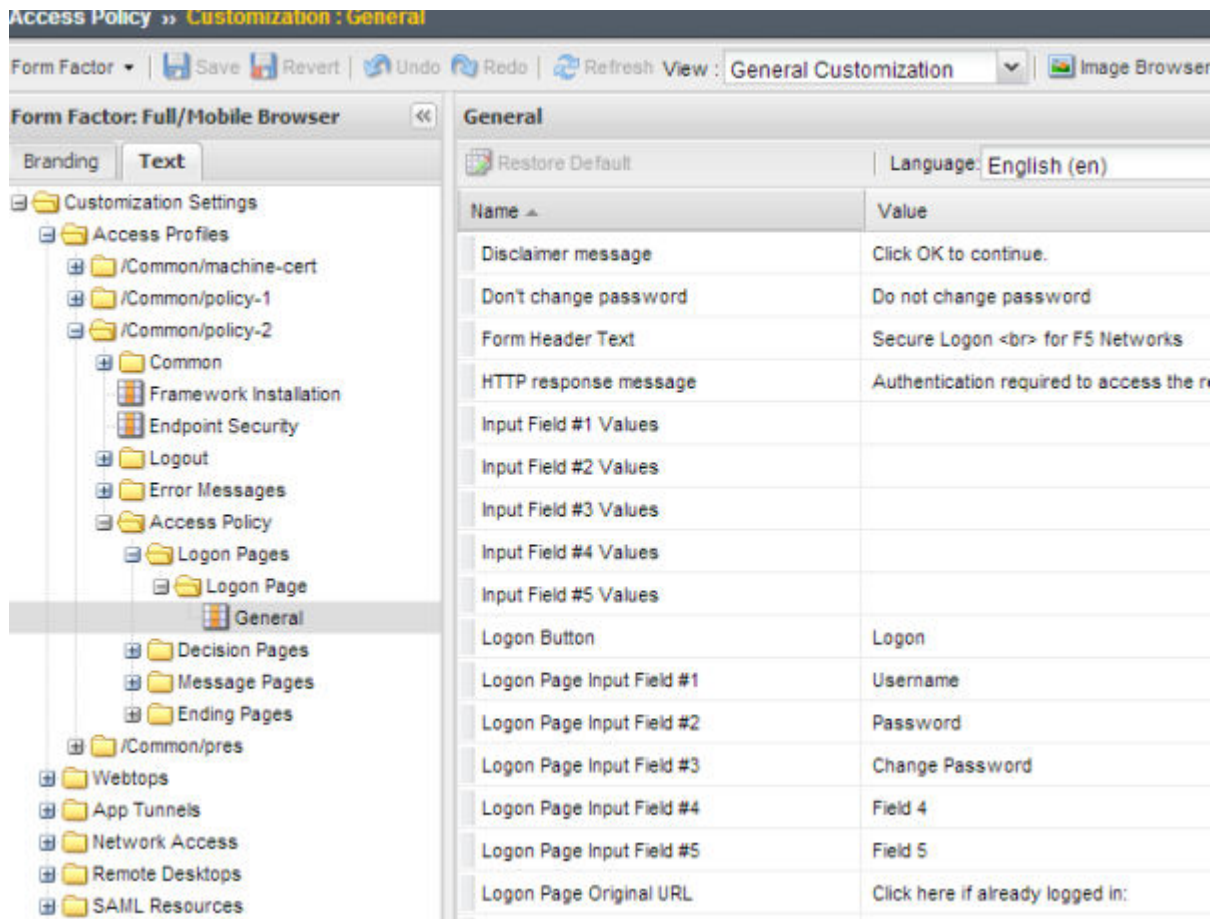


Figure 10: Logon Page customization of language and text in the General Customization view

Logon page settings

You can customize the following settings for logon pages that appear in web browsers and on mobile devices with the Customization tool.

Name	Description
Front Image	Customization
Form Header Text	Text that displays above the form.
Input Field #n Values	Localized text for any input field (number 1 to 5) of type select or radio . (Input types are specified in the visual policy editor), Values and text are defined in this format "value1=>text1;value2=>text2", and so on. For example: server1=>Corporate;server2=>Finance;server3=>Sales The values and text must be defined in the visual policy editor for the field before you can customize the text. <i>Note: From the customization interface, personalize the text fields (Corporate, Finance, Sales) only.</i>
Logon Page Input Field # (1-5)	Text that is displayed on the logon page for each of the logon page agents, defined in the Logon Page Agent screen area.
Logon Button	Caption of form submit button.
New Password Prompt	Text displayed when requesting a new Active Directory password.

Name	Description
Password and Password Verification do not Match	Error message displayed for password entries that do not match one another.
Save Password Checkbox	Text displayed adjacent to the check box that allows users to save their passwords in the logon form. This field is used only in the secure access client, and not in the web client.
Verify Password Prompt	Text displayed next to password confirmation field when a new Active Directory password is requested.

About mobile browser support

Mobile browsers and full browsers share the same UI page template HTML, but use different CSS files to optimize presentation for the type of device. To tune the mobile browser CSS, you must edit CSS files using the Advanced Customization view.

Coding Tips and Examples

About advanced customization

With advanced customization, it is possible to change almost anything with a certain knowledge of HTML, CSS, and JavaScript. UI templates, which consist of HTML and PHP files, and CSS files, are available for edit directly from the Advanced Customization view.

About customization variables

Customization variables are special symbols, such as %[variable_name], in a UI template. A customization variable is a placeholder for actual customization and localization values. When a UI page is generated from a UI template, customization variables are replaced with actual values.

Important: Customization uses the same UI templates for all languages. Therefore, F5[®] recommends that when you customize UI templates, you reuse customization variables for localized texts. Otherwise, you risk creating localization conflicts.

About PHP code

Customization uses PHP code inside UI templates.

Important: F5[®] recommends that when you customize UI templates, you do not delete or modify PHP code.

About CSS code

In the hierarchy of the advanced customization user interface, all CSS code is located under **Access Profile > Common**. The folder contains various versions of the Access Policy Manager[®] (APM[®]) CSS code with names such as `apm_mobile.css` and `apm_full.css`. When displaying generated UI pages, APM picks the correct `.css` file for the client (mobile browser, full browser, BIG-IP[®] Edge Client[®]).

If you create a UI template that partially or completely replaces the default structure provided by F5[®], F5 recommends that you do not change existing CSS definitions but add your own with different names (IDs). Otherwise, you run the risk that other non-customized pages will be misrendered.

To replace a main table with your div, on the logon page for example, replace `<table id="main_table" class="logon_page">` with your `<table id="cust-main" class="cust-logn-page">`.

Coding recommendations

With advanced customization, you can partially or completely replace the default structure for pages. To avoid unexpected problems however, follow these recommendations when editing `.css` and `.inc` files.

.css file

- Do not change existing CSS definitions but add your own with different names (IDs). Otherwise, you run the risk that other non-customized pages will be misrendered.
- In your new code, reuse existing customization variables (%[variable_name]) rather than creating new ones; doing so prevents localization conflicts.
- Do not change PHP code.

.inc file

In most cases, you can safely replace the code in .inc files.

Updating a .css file with additional code to customize a logon page table

The first line of the code for the existing logon page table is: `<table id="main_table" class="logon_page">`. Retain that code and add code for a div or a table that you want to use instead. For example, the code for a new table might start like this: `<table id="cust-main" class="cust-logn-page">`.

Access profile common .css and .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
apm_full.css	File that contains all CSS for desktop browsers; also contains this PHP: <ul style="list-style-type: none"> • <code>apmCssCustomizationReg</code> - array with variables that come from general customization data. • <code>parsedVersionMajor</code> and <code>parsedVersionMinor</code> - versions of Mozilla, used to fix specific issues with CSS .
apm_mobile.css	File that contains all CSS for mobile browsers. If you want mobile pages to look exactly the same as full browser pages, you can replace the contents of <code>apm_mobile.css</code> contents with the contents of <code>apm_full.css</code> .
footer.inc	The include file that specifies the footer text line.
apm_edge.css	File contains all CSS for BIG-IP® Edge Client® pages. <i>Important: F5® recommends that you do not edit this file.</i>
javascript_disabled.inc	File that is included with every page and displayed only when the browser does not support JavaScript.
header.inc	File that specifies the page header content for access profile pages on all devices. The file includes this PHP: <ul style="list-style-type: none"> • <code>viewport_data</code> – contents of meta name id="viewport". • <code>label_position</code> – position of labels against corresponding input fields (see general customization Access Profile/Common/Layout Settings) • <code>page_layout</code> – position of input cell (see Access Profile/Common/Layout Settings) • <code>page_image_default</code> – default image cell image (see Access Profile/Common) • <code>header_logo</code> – corporate logo The file includes JavaScript: <code>setViewport()</code> – function that changes scale basing on orientation.

Name	Description
apm_mobile_ppc.css	Styles for old Windows mobile device.

Access profile logout .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
my.acl.inc	ACL denied page if user tries to access prohibited URL.
urlfilter_blocked.inc	Secure Web Gateway (SWG) access denied page if user tries to access prohibited URL.
access_notfound.inc	The HTML, JavaScript, and PHP code that presents a page when access is not granted.
logout.inc	Default logout page.

Access profile logon .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
logon.inc	Customization of logon page.
http_401.inc	Customization of HTTP 401 error (unauthorized) page.
view.inc	Customization of VMware View logon page.

Access profile decision box .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
decision_box.inc	Specifies the layout for the HTML that appears in a decision box.

Access profile message box .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
message_box.inc	Specifies the layout for the HTML that appears in a message box.

Access profile ending page .inc files

You can customize the following files for access profiles in the Advanced Customization view.

Name	Description
my.acl.inc	ACL denied page if user tries to access prohibited URL.
urlfilter_blocked.inc	Secure Web Gateway (SWG) access denied page if user tries to access prohibited URL.
access_notfound.inc	The HTML, JavaScript, and PHP code that presents a page when access is not granted.

Name	Description
logout.inc	Default logout page.

Webtop .css and .inc files

You can customize the following files for webtops in the Advanced Customization view.

Name	Description
hometab.inc	Not applicable; file pop up.
webtop_popup.css	Pop up file CSS.
webtop_help.inc	Help file for webtop.
desktopClass.js.inc	Main JavaScript file for webtop.

About advanced customization images

In the General Customization view, each access profile, access profile page, and webtop includes an Advanced Customization Images setting. The setting provides storage for up to ten images that are then available for use in the Advanced Customization view. An image specified in the setting is managed with the parent object; it is exported, imported, copied, or deleted along with the parent object. It persists with the parent object through backup and upgrade procedures. An image is specified as a name-value pair.

Name

Images names (image00 through image09) are fixed; they are only placeholders. An image name, for example image00, does not correspond to a location on a page or to an image that is already used in the UI. The numerals, 00, do not indicate order or precedence. The image name can be used as a variable in the code for a parent object in the Advanced Customization view. This code specifies image00 as a variable: ``.

Value

Image values provide file paths and the file names for image files. To use the image, the value can be copied from the setting in the General Customization view into the code in the Advanced Customization view. A default value `/public/images/my/tr.gif` indicates that a customized image has not been specified.

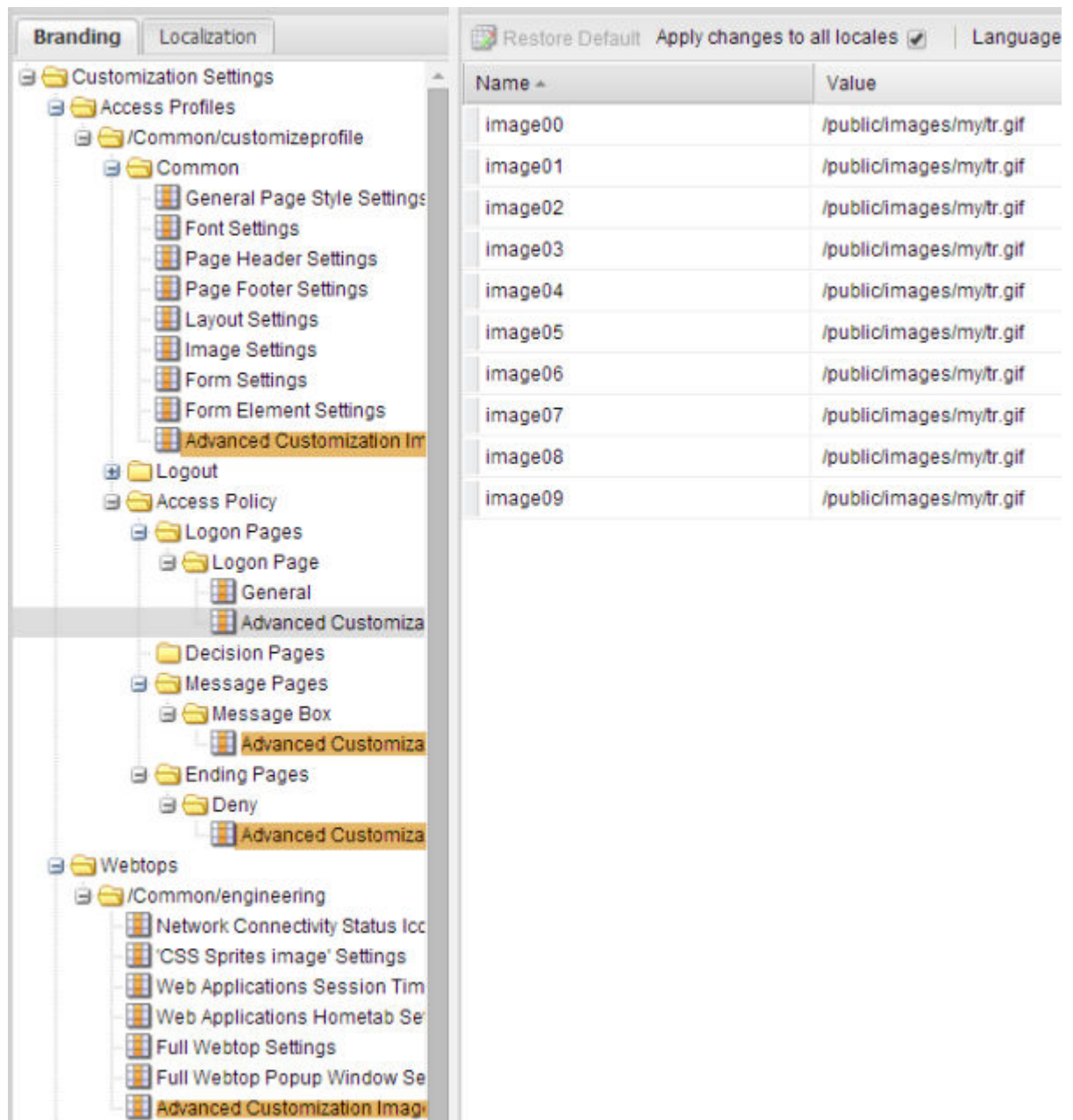


Figure 11: Advanced Customization Images settings for some customization objects

About best practices for advanced customization images

You can think of the Advanced Customization Images settings as libraries of images. Each library has a scope: the object that manages the library can always use images from it; sometimes child objects can also use images from the library of a parent object. Advanced Customization Images settings offer a lot of flexibility. When deciding where to store images, consider how much flexibility you need and whether using images from a parent object library provides adequate control.

Access Profile Advanced Customization Images

If you store images in the Advanced Customization Images setting for an access profile, you can use the images not only in the access profile code but also in the code for access policy pages. The advantage of this approach is that if you need to update images, you only need to change them in one

setting. However, if you want to ensure that images on an access policy page remain the same regardless of changes to images in the access profile Advanced Customization Images setting, this might not be the approach you want to use.

Access Policy pages Advanced Customization Images

If you store images in the Advanced Customization Images setting for an access policy page, you can use the images in the code for that page only. You can store the same images that are stored at the access profile level, different images, a mix of both, or no images.

Webtop Advanced Customization Images

If you store images in the Advanced Customization Images for a webtop, you can use the images in the code for that webtop only. However, general customization provides many settings in which to specify icons; it might be simpler to use it.

Example: Adding an image to an access policy page

In this example, a custom image is stored in the Advanced Customization Images settings for one of the access policy pages, a message box page. In the Advanced Customization view, the code for the message box page is updated to add a custom image to the right side of the page.



Figure 12: Sample custom image

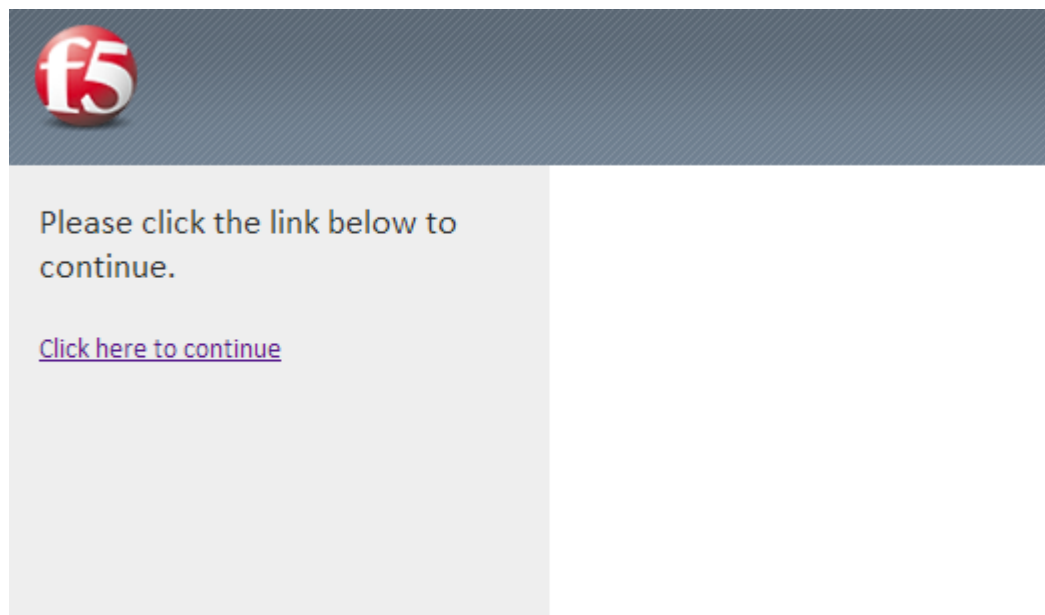


Figure 13: Default message page

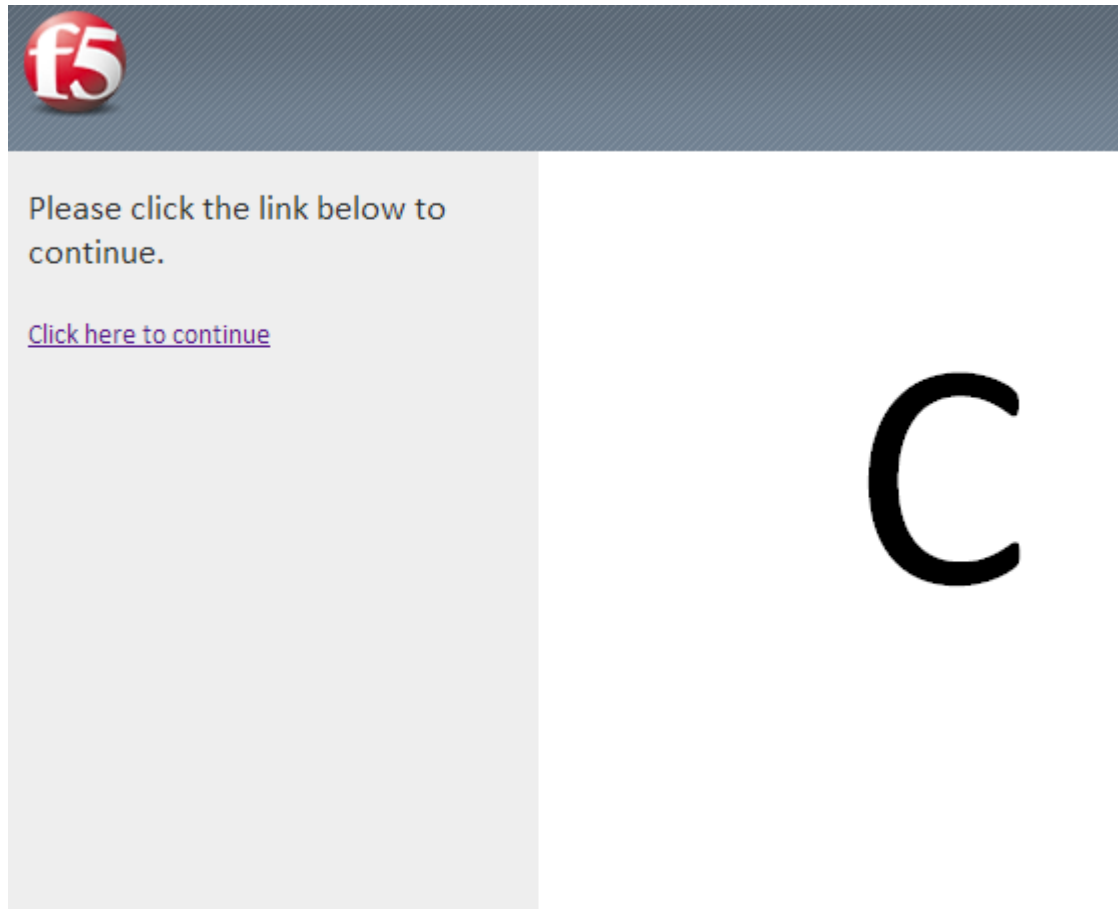


Figure 14: Customized message page with image

***Note:** This example includes tasks to complete in the General Customization view before you update the code and code changes to make in the Advanced Customization view.*

Uploading images for use in customization

Storing images for advanced customization of a specific page

Updating message box code with a custom image

Uploading images for use in customization

You can add images for Access Policy Manager[®] customization with the image browser. You can then select and use these images by means of settings within the Customization tool.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. On the menu bar, click **Image Browser**.
The image browser opens in a new screen.
3. Select the image filter method from the **Filter Messages** list.
 - Select **Default Images** to view the included default Access Policy Manager images.
 - Select **User Uploaded Images** to view the custom uploaded images.
4. Add and remove images.
 - To add an image, click **Add Image**, select the image, and click **Open**.

- To remove an image, select the image in the image browser, and click **Delete Image**.

Storing images for advanced customization of a specific page

This example explains how to store a custom image for use in the advanced customization of an access policy message page. To follow this example, you need an access profile with an access policy that contains a Message Box action item.

Specify an image in the **Advanced Customization Images** setting for an object so that the image can be used in advanced customization of the object.

1. From the General Customization view, expand the **Access Profiles** folder. Folders for each access profile display.
2. Expand the folder for an access profile.
3. Expand these folders **Access Policy > Message Pages > Message Box**.

Note: Message Box is the default name for a message box item. You might see a different name, or names if the access policy includes multiple message boxes; expand one of them.

Settings for the message box access policy item display.

4. Click the **Advanced Customization Images** setting. Image names and values display in the right pane.
5. Click the value for one of the images.
If not already updated for use in advanced customization, the value is `/public/images/my/tr.gif`.
A pull-down menu icon displays.
6. Click the pull-down menu icon and click **Replace**.
A popup screen displays images.
7. To choose an image, click it; then click **Change**.
The popup screen closes. A new value displays for the image.
8. Press Enter to finalize the change, and click **Save**.
9. Make a note of the image name; you need it when you perform advanced customization.
You can use the image name as a variable in advanced customization of the parent object only. A message box page is the parent object in this example.

The image is now available for use in advanced customization of the message box item.

Updating message box code with a custom image

You need to have the value of the name of image available from the Advanced Customization Images setting for the particular message box that you want to update.

You remove and replace the code that specifies the image to display so that a customized image displays instead.

1. From the **View** list, select **Advanced Customization**.
The advanced customization (tree) view displays.
2. Navigate to the message box item to be customized.
 - a) Expand the **Access Profiles** folder and expand the folder for the access profile you want to customize.
 - b) Expand these folders **Access Policy > Message Pages > Message Box**.

Note: Message Box is the default name for a message box item. You might see a different name, or names if the access policy includes multiple message boxes; expand one of them.

Settings for the message box access policy item display.

3. Click **message_box.inc**.
Code displays in the Advanced Customization Editor.
4. Scroll down to this code.

```
<table id="main_table" class="message_box">
<tr>
  <? if( $GLOBALS["page_layout"] == "form_right" ){ ?><td id="main_table_image_cell">"></td><? } ?>
  <td id="main_table_info_cell">
    <table id="interaction_table">
      <tr>
        <td id="interaction_table_header"><? print('%[form_message]'); ?></td>
      </tr>
      <tr>
        <td class="interaction_table_text_cell"><? print('<a href="#"
onclick="javascript:SubmitResult(1);return 1;">%[link]</a>'); ?></td>
      </tr>
      <tr>
        <td class="interaction_table_footer"></td>
      </tr>
    </table>
  </td>
  <? if( $GLOBALS["page_layout"] == "form_left" ){ ?><td id="main_table_image_cell">"></td><? } ?>
</tr>
</table>
```

5. After the first table row open tag (<tr>), remove this line of code.

```
<? if( $GLOBALS["page_layout"] == "form_right" ){ ?><td id="main_table_image_cell">"></td><? } ?>
```

The code that checks the page layout and specifies the image cell is removed.

6. Before the last table row close tag (</tr>), remove this line of code.

```
<? if( $GLOBALS["page_layout"] == "form_left" ){ ?><td id="main_table_image_cell">"></td><? } ?>
```

Code that checks the page layout and specifies the image cell is removed.

7. Before the last table row close tag (</tr>), insert this line of code, replacing *nn* with the image number.

```
<td id="main_table_image_cell"></td>
```

8. In the Advanced Customization Editor area, click **Save Draft**.
In the navigation tree, **message_box.inc** now displays in italics.
9. On the menu bar, click **Save**.
In the navigation tree, **message_box.inc** is no longer italicized. In the screen header, the **Apply Access Policy** link displays.
10. In the screen header, click the **Apply Access Policy** link.
A screen displays the access profile list with the access profile you have been editing selected.
11. Click the **Apply Access Policy** button.

You can now verify the result of this customization from a browser by trying to access a virtual server in which this access profile is specified.

Example: Adding an image to a profile and a page

In this example, a custom image is stored in the Advanced Customization Images settings for an access profile. Then, the value of the image is used in advanced customization of the access profile page header. The header displays on all access policy pages, including the logon page. Then, the value of the image is used in additional advanced customization of the access policy logon page.



Figure 15: Sample custom image

Uploading images for use in customization

Storing images for advanced customization of policy pages

Adding an image in the page header code

Adding an image in the logon page code

Uploading images for use in customization

You can add images for Access Policy Manager® customization with the image browser. You can then select and use these images by means of settings within the Customization tool.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. On the menu bar, click **Image Browser**.
The image browser opens in a new screen.
3. Select the image filter method from the **Filter Messages** list.
 - Select **Default Images** to view the included default Access Policy Manager images.
 - Select **User Uploaded Images** to view the custom uploaded images.
4. Add and remove images.
 - To add an image, click **Add Image**, select the image, and click **Open**.
 - To remove an image, select the image in the image browser, and click **Delete Image**.

Storing images for advanced customization of policy pages

To follow this example, you need an access profile with an access policy that contains a Logon Page action item.

Specify an image in the **Advanced Customization Images** setting for an access profile to use the image in advanced customization of the access profile and any access policy pages.

*Note: An image stored in the **Common** settings for an access profile can be used in the advanced customization of any access policy page provided that you use the image value instead of the image name to specify the `src` attribute for the image.*

1. From the General Customization view, expand the **Access Profiles** folder. Folders for each access profile display.
2. Expand the folder for an access profile.
3. Expand the **Common** folder. A list of settings displays.
4. Click the **Advanced Customization Images** setting. Image names and values display in the right pane.
5. Click the value for one of the images. If not already updated for use in advanced customization, the value is `/public/images/my/tr.gif`. A pulldown menu icon displays.
6. Click the pulldown menu icon and click **Replace**. A popup screen displays images.
7. To choose an image, click it; then click **Change**. The popup screen closes. A new value displays for the image.
8. Press Enter to finalize the change, and click **Save**.
9. Click the value for the image again; copy the value in the field and paste it into a text file. The value should be something like this: `/public/images/customization/Common/ProfileName_general_ui/image00_en.png`. You need to know the value when you perform advanced customization.

The image is now available for use in advanced customization of the message box item.

Example: Adding an image to a profile and a page

Uploading images for use in customization

Adding an image in the page header code

Adding an image in the page header code

In this example, an image is added to the access profile page header. Make sure that the value of the image is available exactly as specified in the **Advanced Customization Images** setting for the particular access profile that you want to update.

Add code to specify an image to display in the page header.

1. From the **View** list, select **Advanced Customization**. The advanced customization view displays.
2. In the navigation tree, expand the **Access Profiles** folder and expand the folder for the access profile you want to customize.
3. Expand the **Common** folder.
4. Click **header.inc**. Code displays in the Advanced Customization Editor area of the screen.
5. Scroll to the end of the file to this code.

```
<table id="page_header">
  <tr >
    <td id="header_leftcell"><img src='<?=$GLOBALS["header_logo"]??' /></td>
    <td id="header_rightcell"><? if( !empty( $GLOBALS["header_show_disconnect_button"] ) )
  { ?><button id="disconnect" onclick="javascript: /*
```

```
window.onbeforeunload=window.document.onbeforeunload=window.document.body.onbeforeunload=null; */ if(top.F5_HT_logOut){ F5_HT_logOut(); }else{ window.location.href='/my.logout.php3'; }"><span> %[disconnect_text]</span></button><?> if( !empty( $GLOBALS["webtop_header_message"] ) ) {?><span id="webtop_header_message"><img src='<?=$GLOBALS["fw_header_icon"]?' id='fw_header_icon'><?=$GLOBALS["webtop_header_message"]?'></span><?></td></tr></table>
```

6. After the table close tag (</table>), insert this line of code.

```

```

7. In the Advanced Customization Editor area, click **Save Draft**.

In the navigation tree, **header.inc** now displays in italics.

8. On the menu bar, click **Save**.

In the navigation tree, **header.inc** is no longer italicized. In the screen header, the **Apply Access Policy** link displays.

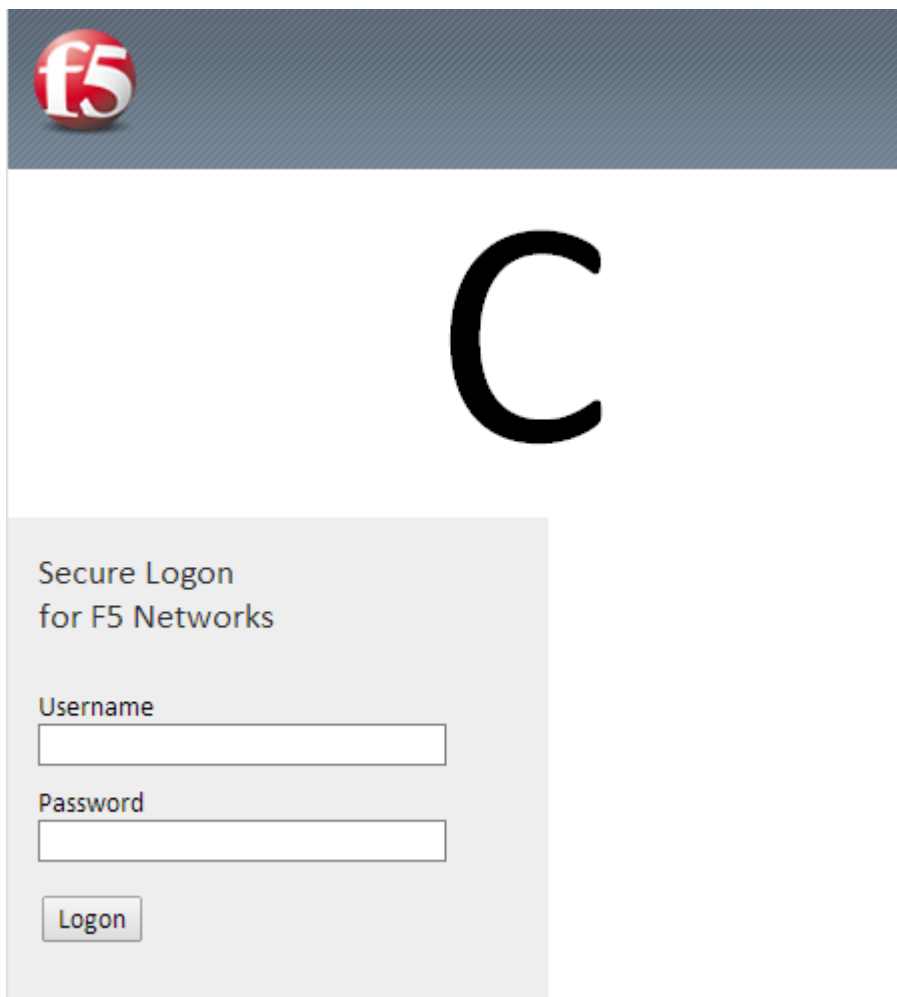
9. In the screen header, click the **Apply Access Policy** link.

A screen displays the access profile list with the access profile you have been editing selected.

10. Click the **Apply Access Policy** button.

11. To verify the result, in the General or Advanced Customization view, click Preview and navigate to and click any access policy page.

Figure 16: Logon page with customized page header



Adding an image in the logon page code

This example shows one way to change the image that is displayed on a logon page. Have the value of the image available exactly as it is specified in the **Advanced Customization Images** setting for the parent access profile.

Add code to specify an image to display after the logon page.

1. From the **View** list, select **Advanced Customization**.
The advanced customization view displays.
2. Navigate to the logon page item to be customized.
 - a) Expand the **Access Profiles** folder and expand the folder for the access profile you want to customize.
 - b) Expand these folders **Access Policy > Logon Pages > Logon Page**.

Note: Logon Page is the default name for a logon page item. You might see a different name, or names if the access policy includes multiple logon pages; expand one of them.

Settings for the logon page access policy item display.

3. Click **logon.inc**.
Code displays in the Advanced Customization Editor area of the screen.
4. Scroll to the end of the file to this code.

```

    }
    --></script>
  </td>
  <? if( $GLOBALS["page_layout"] == "form_left" ){
    ?><td id="main_table_image_cell"></td><?
  } ?>
</tr>
</table>

<? include_customized_page("general_ui", "footer.inc"); ?>

<? include_once("sam/webtop/renderer/vk.inc"); ?>

<div id="MessageDIV" class="inspectionHostDIVsmall"></div>

</body>
</html>

```

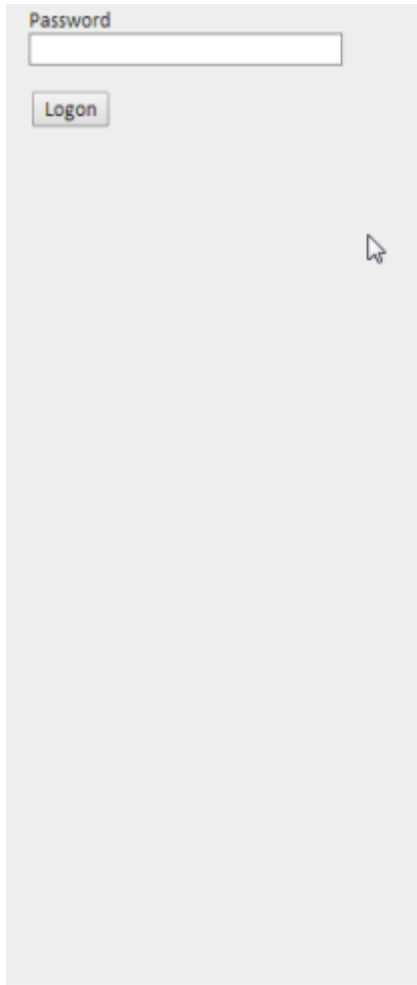
5. After the table close tag (</table>), insert this line of code.

```

```

6. In the Advanced Customization Editor area, click **Save Draft**.
In the navigation tree, **login.inc** now displays in italics.
7. On the menu bar, click **Save**.
In the navigation tree, **login.inc** is no longer italicized. In the screen header, the **Apply Access Policy** link displays.
8. In the screen header, click the **Apply Access Policy** link.
A screen displays the access profile list with the access profile you have been editing selected.
9. Click the **Apply Access Policy** button.
10. To verify the result, in the General or Advanced customization view, click Preview and navigate to and click any access policy page.

Figure 17: Logon page with custom image after the form



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Advanced Customization with Logon Page Templates

About advanced customization templates

Access Policy Manager[®] advanced customization templates provide code and images for creating customized pages. With the templates and the instructions provided for them, you can walk through step-by-step instructions and produce pages with a look-and-feel and with features that are frequently requested .

Templates and instructions are available for download from the BIG-IP[®] Access Policy Manager[®] page on DevCentral[®] at <https://devcentral.f5.com/wiki/APM.APM-Advanced-Customization-Templates.ashx>.

The Customization Tool

About the Customization tool

The Customization tool is an application that you start from the BIG-IP® admin console. With the Customization tool, you can personalize screen messages and prompts, change screen layouts, colors, and images, and customize error and other messages to specific languages for policies and profiles used on BIG-IP Access Policy Manager®.

Starting the Customization tool

Start the Customization tool to personalize and localize page layout, colors, images, and messages for the BIG-IP® Edge Client®, browser pages, and mobile device screens.

On the Main tab, click **Access > Profiles / Policies > Customization**.

The Customization tool appears, in Basic Customization view.

You can use the Customization tool inside the BIG-IP admin console, or click **Popout** to open it in a separate browser window.

After you personalize settings, remember to click the **Save** icon to apply your changes.

About customization views and form factors

The Customization tool provides three views.

Basic Customization (Quick Start)

This is the default customization view. Use this to configure basic look and feel for pages, and common text labels and captions for resources on the webtop.

General Customization

This view provides a tree structure for configuration elements, and more detailed methods to configure and customize objects.

Advanced Customization

This view provides direct access to PHP, CSS, JavaScript, and HTML files that you can edit to control the display and function of web and client pages in Access Policy Manager®.

The General and Advanced Customization views provide two form factors, that you can use to customize different access policy features.

Full/Mobile browser

Use this mode to configure pages that are viewed in a web browser or on a mobile device.

BIG-IP Edge Client

Use this mode to configure the appearance and messages that appear in the BIG-IP® Edge Client® for a platform or device.

In the General Customization view, for each form factor you can also choose to customize **Branding** or **Text** by selecting the tab at the top of the Form Factor column.

The Customization Tool

Branding

Customization controls the look of the user interface, such as fonts, images, colors, and general layout.

Text

Customization provides personalization for the text and messages that appear for each language specified in an access profile.

Configuring Settings in Basic Customization View

About Basic Customization view

You can use the Basic Customization view to configure common settings for access profile web pages, and the webtop captions, descriptions, and images for any item that appears on a full webtop. In addition, you can customize webtop font size and link colors.

With this view, you can customize all of these items:

Common Page Styles

Specifies settings for the logon form display, header image, and alignment of items.

Webtop items

Specifies settings for the display of resources (app tunnels, remote desktops, network access tunnels, webtop links, and portal access resources) on the full webtop.

Common webtop settings

Specifies display settings that apply to all resources on the full webtop.

Webtop links

Specifies display settings that apply to all resources on the full webtop.

Customizing Basic settings

Start Basic customization to configure custom settings for access profiles and items that appear on the full webtop. Basic customization provides a starting point that you can later refine through the Advanced Customization view.

1. On the Main tab, click **Access > Profiles / Policies > Customization > Quick Start/Basic**.
The Basic Customization view opens.
2. In the left column of the page, select the category of items to customize.
For example, select **Network Access** to customize the appearance of a network access resource item on the full webtop.
3. On the right side of the page, from the list, select the specific item for which you want to customize settings.
The customizable settings for the item are displayed.
4. Configure settings for the resource item or access profile.
When configuring Common Page Styles, click **Preview** at the bottom of the screen to display changes without first saving them.

After you customize settings, click **Save** to save the new customization settings. To return to the original settings and discard your changes, click **Revert**.

Common page style settings

The Basic Customization view provides settings for customizing an access profile.

Setting	Value	Description
Access Profile	An access profile already defined on the system.	The access profile for which you want to change basic settings.

Configuring Settings in Basic Customization View

Setting	Value	Description
Language	A language already specified in the access profile on the system.	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Page Alignment	Left, center, or right.	Sets the alignment of the page within the web browser screen.
Page Width	Pixel or percentage value (for example 90%).	The width of any access policy web pages inside the web browser frame.
Header Logo	An image.	The header logo appears, by default, at the upper-left corner of the defined HTML page. Typically this is a square, transparent image file. Acceptable formats for transparency are GIF and PNG. The page header area expands to the height of this image.
Page Background Color	A color, selected from a color chooser.	Indicates the color behind pages.
Header Background Color	A color, selected from a color chooser.	Indicates the color of the header on a page.
Table Background Color	A color, selected from a color chooser.	Indicates the color behind a table on a page.
Form Left Margin	A numeric pixel value, or a percentage (for example, 10px or 5%).	The margin between the left edge of the form and the left edge of the browser window, on form-based pages.
Form Top Margin	A numeric pixel value or a percentage, (for example, 10px).	The margin between the top edge of the form and the bottom edge of the header image, on form-based pages.
Form Height	A numeric pixel value or a percentage, (for example, 500px or 50%).	The height of the form, on form-based pages. Any value less than the full height of the browser increases the space at the bottom of the form, as the top margin is set by the Form Top Margin value.
Form Background Color	A color, selected from a color chooser.	Indicates the color behind form-based pages.
Footer Text	A text string.	Specifies the footer message that appears at the bottom of access policy web pages.
Footer Font Size	Font size in pixels (for example 10px).	Indicates the size for the footer message at the bottom of access policy web pages.

App tunnel basic settings

The Basic Customization view provides settings for customizing an app tunnel on the full webtop.

Setting	Value	Description
App Tunnel	An app tunnel already defined on the system	The app tunnel for which you want to change basic settings.

Setting	Value	Description
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Caption	A text string	The text under the icon for the app tunnel, on a full webtop.
Description	A text string	The description text for the app tunnel, on a full webtop.
Image	An image or icon	The image acts as an icon on the full webtop to represent the app tunnel. Select an image from the list, or click Upload New Image to add a new image.

Network access basic settings

The Basic Customization view provides settings for customizing a network access resource on the full webtop.

Setting	Value	Description
Network Access	A network access resource already defined on the system	The network access resource for which you want to change basic settings.
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Caption	A text string	The text under the icon for the network access resource, on a full webtop.
Description	A text string	The description text for the network access resource, on a full webtop.
Image	An image or icon	The image acts as an icon on the full webtop to represent the network access resource. Select an image from the list, or click Upload New Image to add a new image.

Remote desktop basic settings

The Basic Customization view provides settings for customizing a remote desktop on the full webtop.

Setting	Value	Description
Remote desktop	A remote desktop already defined on the system	The remote desktop for which you want to change basic settings.
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Caption	A text string	The text under the icon for the remote desktop, on a full webtop.
Description	A text string	The description text for the remote desktop, on a full webtop.

Configuring Settings in Basic Customization View

Setting	Value	Description
Image	An image or icon	The image acts as an icon on the full webtop to represent the remote desktop. Select an image from the list, or click Upload New Image to add a new image.

Common webtop settings

The Basic Customization view provides these shared settings for customizing full webtops.

Setting	Value	Description
Webtop	A webtop already defined on the system	The webtop for which you want to change basic settings.
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Font size	A pixel value, (for example 14px)	The font size used for text on the full webtop.
Link color	A color, selected from a color chooser	Indicates the color for links on the webtop.
Image	An image or icon	The image appears on the full webtop. Select an image from the list, or click Upload New Image to add a new image.
Show Statistics While Connected	on or off	Show or hide statistics in the remote connection popup screen for the application tunnel or the network access tunnel.

Webtop link basic settings

The Basic Customization view provides settings for customizing a webtop link on the full webtop.

Setting	Value	Description
Webtop link	A webtop link already defined on the system	The webtop link for which you want to change basic settings.
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Caption	A text string	The text under the icon for the webtop link, on a full webtop.
Description	A text string	The description text for the webtop link, on a full webtop.
Image	An image or icon	The image acts as an icon on the full webtop to represent the webtop link. Select an image from the list, or click Upload New Image to add a new image.

Portal access resource basic settings

The Basic Customization view provides settings for customizing a portal access resource on the full webtop.

Setting	Value	Description
Portal Access	A portal access resource already defined on the system	The portal access resource for which you want to change basic settings.
Language	A language already specified on the system	This specifies the language for which you are changing customization settings. Select All languages to apply the same customization changes to all languages in the access profile.
Caption	A text string	The text under the icon for the portal access resource, on a full webtop.
Description	A text string	The description text for the portal access resource, on a full webtop.
Image	An image or icon	The image acts as an icon on the full webtop to represent the portal access resource. Select an image from the list, or click Upload New Image to add a new image.

Personalizing Client Appearance in General View

What is client personalization?

To personalize client pages, you use BIG-IP® Edge Client® customization. You can change the branding and localization of the BIG-IP Edge Client on client PCs and devices.

Uploading images for use in customization

You can add images for Access Policy Manager® customization with the image browser. You can then select and use these images by means of settings within the Customization tool.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. On the menu bar, click **Image Browser**.
The image browser opens in a new screen.
3. Select the image filter method from the **Filter Messages** list.
 - Select **Default Images** to view the included default Access Policy Manager images.
 - Select **User Uploaded Images** to view the custom uploaded images.
4. Add and remove images.
 - To add an image, click **Add Image**, select the image, and click **Open**.
 - To remove an image, select the image in the image browser, and click **Delete Image**.

Personalizing client colors, logos, and icons

In a connectivity profile, you can customize the appearance of the BIG-IP® Edge Client® and the web client. The settings you specify are saved with the connectivity profile, and applied when users download the client package.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. From the **Form Factor** list at the top of the Customization tool, select **BIG-IP Edge Client**.
3. To select the BIG-IP Edge Client, in the left pane, expand the folders and navigate to **Customization Settings > Connectivity Profiles > *name_of_connectivity_profile***, and click **BIG-IP Edge Client**.
4. Customize the settings for BIG-IP Edge Client branding.
5. After you customize settings, click the **Save** icon at the top of the Customization tool.

Previewing customization changes

You must have customized an element with the Customization tool to see a preview of your changes.

After you customize and save an element with the Customization tool, you can preview the changes you have made in the Preview window. The Preview window opens a separate browser window, and shows a live update of changes as you save them.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. On the menu bar, at right, click the **Preview** button.
3. Navigate to a page to view customizations.
For example, to navigate to a logon page and view the results of access profile branding customization, in the Preview window expand **Customization Settings > Access Profiles > access_profile_name > Access Policy > Logon Pages**, then click *logon_page_name*.

The Preview window shows the results of any customization changes.

Appearance properties for BIG-IP Edge Client

You can customize the following appearance settings for BIG-IP® Edge Client® with the Customization tool.

Name	Value	Description
Banner Color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the color that the banner for the BIG-IP Edge Client uses. Note that the Banner Text Color should be legible over this color.
Banner Text Color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the color in which the banner text appears. This color appears over the Banner Color and should be readable on it.
Logo	A 48 x 48 PNG, JPG, or GIF icon.	This logo appears in the BIG-IP Edge Client as the company logo. The generic logo is an F5 logo. To change the logo, click the logo popout button, then click Replace . Select an image file to replace the logo file. Note that you can add files to the Customization tool in the image browser.
Tray Icon Set	The F5 tray logo set or the generic icon set.	Select the setting that will appear in the system tray to show connection activity and status. You can choose the F5 icon set (red ball), or a Generic icon set.

Localizing screen appearance for BIG-IP Edge Client

Configure localization for BIG-IP® Edge Client® to change the messages and text in the BIG-IP Edge Client application.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. From the **Form Factor** list at the top of the Customization tool, select **BIG-IP Edge Client**.
3. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
4. To select the BIG-IP Edge Client, in the left pane, expand the folders and navigate to **Customization Settings > Connectivity Profiles > *name_of_connectivity_profile***, and click **BIG-IP Edge Client**.
5. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for the BIG-IP Edge Client.
6. Customize the settings for BIG-IP Edge Client localization.
7. After you customize settings, click the **Save** icon at the top of the Customization tool.

Previewing customization changes

You must have customized an element with the Customization tool to see a preview of your changes.

After you customize and save an element with the Customization tool, you can preview the changes you have made in the Preview window. The Preview window opens a separate browser window, and shows a live update of changes as you save them.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. On the menu bar, at right, click the **Preview** button.
3. Navigate to a page to view customizations.
For example, to navigate to a logon page and view the results of access profile branding customization, in the Preview window expand **Customization Settings > Access Profiles > *access_profile_name* > Access Policy > Logon Pages**, then click *logon_page_name*.

The Preview window shows the results of any customization changes.

Text properties for BIG-IP Edge Client

You can customize the following settings for BIG-IP® Edge Client® customization with the Customization tool.

Name	Value	Description
About link	A URL	The text that appears as a link in the About area of the BIG-IP Edge Client.
About text	Text	Text, typically copyright info or some other identifying information, that appears in the About area of the BIG-IP Edge Client.
Application Name	Text	The application name, which appears in the status bar of the application.

Personalizing Access Profile Appearance Settings

What is access profile personalization?

With full and mobile browser customization, you can change the appearance, text, and messages of all pages that a browser views, either from the BIG-IP® Edge Client® by directly logging in through a web browser, or on a mobile device. Some settings that are specific to the BIG-IP Edge Client software are customized separately in the BIG-IP Edge Client customization view.

Personalizing page appearance for common access profile settings

Personalize access profile login pages to change the front image and advanced customization images for the login page in a specific access policy.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. To configure common settings, click **Customization Settings > Access Profiles > *access_profile_name* > Common**.
3. Customize the settings for each individual element by clicking the element and changing the displayed settings.
4. After you customize settings, click the **Save** icon at the top of the Customization tool.

The access policy login page reflects your changes.

Previewing customization changes

You must have customized an element with the Customization tool to see a preview of your changes.

After you customize and save an element with the Customization tool, you can preview the changes you have made in the Preview window. The Preview window opens a separate browser window, and shows a live update of changes as you save them.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. On the menu bar, at right, click the **Preview** button.
3. Navigate to a page to view customizations.
For example, to navigate to a logon page and view the results of access profile branding customization, in the Preview window expand **Customization Settings > Access Profiles > *access_profile_name* > Access Policy > Logon Pages**, then click *logon_page_name*.

The Preview window shows the results of any customization changes.

General page style settings for access profiles

You can customize the following settings for general page style with the Customization tool.

Name	Value	Description
Page alignment	Left, Center, or Right.	Indicates the general HTML page alignment for all pages displayed by the access profile.
Page background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the color for the general page background for all pages displayed by the access profile.
Page width (px or %)	A specific pixel value, for example 800px, or a percentage, for example 80%.	Specifies the width of the content on all HTML pages displayed by the access profile, as an absolute pixel value or as a percentage of the entire browser screen.

Font settings for access profiles

You can customize the following settings for general page style with the Customization tool.

Setting	Value	Description
Font family (comma-separated)	Font names or font-family names, space-separated, for example Calibri, Tahoma, Verdana, Arial, Helvetica, Sans-Serif.	Specifies the base font used by pages displayed by the access profile.
Headline font size (px)	A pixel value, for example 18px.	Indicates the pixel size for heading items on pages displayed by the access profile.
Text font size (px)	A pixel value, for example 14px.	Indicates the pixel size for text items on pages displayed by the access profile.

Page header settings for access profiles

You can customize the following settings for the page header style with the Customization tool.

Setting	Value	Description
Disconnect icon	An image icon 48 x 48 pixels or smaller.	Specifies the icon image displayed in the browser when the page is disconnected.
Header background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the background color for HTML header elements for the web pages served to web and mobile clients.

Setting	Value	Description
Header left image (Full Size)	An image name. This is a larger image up to 80 x 80 pixels, for display on web pages.	The header image for web pages. To replace this image, type the relative path, or click the preview icon to the right of the filename, and click Replace .
Header left image (Mobile Devices Size)	An image name. This is a smaller image up to 32 x 32 pixels, for display on mobile devices.	The header image for mobile device pages. To replace this image, type the relative path, or click the preview icon to the right of the filename, and click Replace .

Page footer settings for access profiles

You can customize the following settings for the page footer style with the Customization tool.

Name	Value	Description
Footer font size (px)	A font size, in pixels, for example 12px.	Specifies the font size for text in web page footers.

Layout settings for access profiles

You can customize the following settings for page layouts with the Customization tool.

Name	Value	Description
Form cell width (px or %)	Width, in pixels or percentage, of the main login page form, for example 240px, or 50%.	Specifies the width of the login page form in pixels or as a percentage of the frame.
Image cell width (px or %)	Width, in pixels or percentage, of the main login page image cell width, for example 240px, or 50%.	Specifies the width of the login page image area in pixels or as a percentage of the frame.
Main table background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the background color for the login page main frame.
Page layout	Form left, form center, or form right.	Indicates the placement of the login page form on the main access policy page.

Image settings for access profiles

You can customize the following settings for the main page image with the Customization tool.

Name	Value	Description
Default image	Width, in pixels or percentage, of the main login page form, for example 240px, or 50%.	Specifies the width of the login page form in pixels or as a percentage of the frame.

Name	Value	Description
Image left margin (px)	Left side margin, in pixels, of the main login page image, for example 24px.	Specifies the left margin of the login page image.
Image right margin (px)	Right side margin, in pixels, of the main login page image, for example 24px.	Specifies the right margin of the login page image.
Image top margin (px)	Top-edge margin, in pixels, of the main login page image, for example 24px.	Specifies the top margin of the login page image.
Side image alignment	Center, left, or right.	Specifies the alignment of the image within the side frame.

Form settings for access profiles

You can customize the following settings for the login form with the Customization tool.

Setting	Value	Description
Form alignment	Center, Left, or Right.	Specifies the alignment of the form within the form frame.
Form background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the background color for the login page form.
Form height (px, %, or auto)	Height value in pixels, as a percentage of the frame, or auto, for example 240px, 40%, or auto.	Specifies the height of the login form in the login frame.
Form left margin (px)	Left margin, in pixels, of the main login page form, for example 24px.	Specifies the left margin of the login form.
Form right margin (px)	Right margin, in pixels, of the main login page form, for example 24px.	Specifies the right margin of the login form.
Form top margin (px)	Top margin, in pixels, of the main login page form, for example 24px.	Specifies the top margin of the login form.
Form width (px or %)	Form width in pixels or as a percentage of the form frame, for example 250px or 50%.	Specifies the login form width within the login frame.

Form element settings for access profiles

You can customize the following settings for the appearance of elements in the login form with the Customization tool.

Name	Value	Description
Field alignment	Center, Left, or Right.	Specifies how fields align in the login form.
Field width (%)	A percentage value, for example 67%.	Specifies the width of fields in the login form, as a percentage of the total size of the login form.
Header alignment	Left, center, or right.	Specifies the alignment of header elements in the login form.

Name	Value	Description
Label alignment	Left, center, or right.	Specifies the alignment of form field labels in the login form.
Label position	Left or above.	Specifies whether login form field labels are above or to the left of their respective fields.
Label width (%)	A percentage value, for example 67%.	Specifies the width of field labels in the login form.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Personalizing page appearance for access profile logout settings

Personalize access profile logout settings to add advanced customization image support to logout pages in the access profile.

1. On the Main tab, click **Access > Profiles / Policies > Customization > Advanced**.
The Customization tool appears in Advanced Customization view, displaying the **Form Factor: Full/ Mobile Browser** settings in the left pane.
2. To configure logout settings, in the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *access_profile_name* > Logout**.
3. Customize the settings for advanced customization images.
4. After you customize settings, click the **Save** icon at the top of the Customization tool.

The access policy advanced customization page reflects your changes.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Personalizing page appearance for access policy pages

Personalize access policy pages to change advanced customization images for the login page in a specific access policy, and to add advanced customization images for other access policy pages.

1. On the Main tab, click **Access > Profiles / Policies > Customization > Advanced**.
The Customization tool appears in Advanced Customization view, displaying the **Form Factor: Full/ Mobile Browser** settings in the left pane.
2. On the Branding tab, click **Customization Settings > Access Profiles > *access_profile_name* > Access Policy**, and select the folder for the item to customize.
3. Customize the settings for each individual element by clicking the element and changing the displayed settings.
4. After you customize settings, click the **Save** icon at the top of the Customization tool.

The access policy pages reflect your changes.

Customization settings for access policy items

You can personalize the following settings for pages exposed to the user in an access policy.

Setting	Value	Description
General > Front image	Image	The image that appears in the image frame of the login page for an access policy.
Advanced Customization Images	Images	Each Advanced Customization Images properties page allows you to set advanced customization images from the image browser to associate with advanced customization image names. Each access policy item has a page for advanced customization images. You can use these image names to add an image to a page using advanced customization. To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select Replace .

Localizing messages for BIG-IP Edge Client

Configure localization for BIG-IP® Edge Client® to change the messages and text in the BIG-IP Edge Client application.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. From the **Form Factor** list at the top of the Customization tool, select **BIG-IP Edge Client**.
3. To select the BIG-IP Edge Client, in the left pane, expand the folders and navigate to **Customization Settings > Connectivity Profiles > *name_of_connectivity_profile***, and click **BIG-IP Edge Client**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for the BIG-IP Edge Client.
5. Customize the settings for BIG-IP Edge Client localization.
6. After you customize settings, click the **Save** icon at the top of the Customization tool.

Previewing customization changes

You must have customized an element with the Customization tool to see a preview of your changes.

After you customize and save an element with the Customization tool, you can preview the changes you have made in the Preview window. The Preview window opens a separate browser window, and shows a live update of changes as you save them.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. On the menu bar, at right, click the **Preview** button.
3. Navigate to a page to view customizations.
For example, to navigate to a logon page and view the results of access profile branding customization, in the Preview window expand **Customization Settings > Access Profiles > *access_profile_name* > Access Policy > Logon Pages**, then click *logon_page_name*.

The Preview window shows the results of any customization changes.

Customization settings for BIG-IP Edge Client localization

You can customize the following settings for BIG-IP® Edge Client® customization with the Customization tool.

Setting	Value	Description
About link	A URL	The text that appears as a link in the about area of the BIG-IP Edge Client.
About text	Text	Text, typically copyright info or some other identifying information, that appears in the about area of the BIG-IP Edge Client.
Application Name	Text	The application name, which appears in the status bar of the application.

Personalizing Webtop Appearance Settings in General View

What is webtop appearance personalization?

You can customize the appearance of a webtop, including the layout of the webtop screen, images, and colors associated with the webtop.

Personalizing page appearance for webtops

Personalize webtop appearance settings to change the appearance and layout of specific webtops.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, expand the folders and navigate to **Customization Settings > Webtops > *webtop_name***.
3. Customize the settings for each individual element by clicking the element and changing the displayed settings.
4. After you customize settings, click the **Save** icon at the top of the Customization tool.

The webtop pages display your changes.

Webtop network connectivity status icons settings

You can customize the following icons for connectivity status on the webtop.

Name	Value	Description
Connected icon	16x16px image	Specifies the image for the connected status light on the webtop.
Disconnected icon	16x16px image	Specifies the image for the disconnected status light on the webtop.
Waiting icon	32x32px image	Specifies the image that displays while the client is connecting.

CSS sprite image setting

You can specify the portal access connection CSS sprites image with this setting.

Name	Value	Description
CSS Sprites image	An image file	Specifies the image to use for sprites to construct the webtop windows.

Web Applications Session Timeout settings

Portal access timeouts cause special behavior on the portal access webtop screen. When the session reaches the session timeout guard time, BIG-IP® Access Policy Manager® displays a session timeout

warning, and dims the screen behind the warning. Depending on the type of timeout, the user sees different choices. You can use the following options to customize and configure session timeout options.

Name	Value	Description
'Inactivity Timeout' background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the color of the background that appears behind the session timeout warning pop-up screen, when the timeout occurs because the session is inactive.
'Maximum Session Timeout' background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the color of the background that appears behind the session timeout warning pop-up screen, when the timeout occurs because the session has reached the maximum timeout.
Dialog background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Indicates the page background color for the timeout dialog box presented by session inactivity timeouts or maximum session timeouts.
Dialog x-size in pixels	Number (px)	Specifies the width, in pixels, of the timeout dialog.
Dialog y-size in pixels	Number (px)	Specifies the height, in pixels, of the timeout dialog.
Dimmed opacity percentage	Number (1-100)	Specifies the opacity of the background that appears behind the session timeout warning pop-up screen.
Guard time	Number (seconds)	Specifies the number of seconds before timeout that the session timeout warning pop-up screen appears.
Position of buttons Background image (hover) in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the button background image that appears when the mouse hover.
Position of buttons Background image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the button background image.

Name	Value	Description
Position of header Background image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the background hover image.
Position of Left Sidepart image (hover) in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the left-side mouse hover image.
Position of Left Sidepart image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the left-side image.
Position of Logout image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the logout image.
Position of Right Sidepart image (hover) in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the right-side hover image.
Position of Right Sidepart image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the right-side image.
Position of Warning image in CSS Sprites image	Coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the warning image.

Web Applications Hometab settings

Portal access connections include an optional hometab, which provides buttons and links for working with portal access and a URL bar. You can customize and configure the hometab with the following options.

Name	Value	Description
Data entry background color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the color of the background that appears behind the data entry fields on the hometab.
Data entry left and right border color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you	Specifies the color of the borders for the data entry area.

Personalizing Webtop Appearance Settings in General View

Name	Value	Description
	to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	
Data entry text color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the text color for data entry fields.
Font size (px)	pixel value (for example, 14px)	Specifies the font size on the hometab.
Link color	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the link text color on the hometab.
Link color (hover)	A hex color code, for example, #123ABC. When you click the color value, two color choosers appear. One allows you to select a color from 40 common color blocks, and the other allows you to select any HTML color from a more sophisticated color wheel. You can also type the color value in as text.	Specifies the color for links when the mouse hovers over them.

Name	Value	Description
Position of Background image (hover) in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the background image that appears when the mouse hovers.
Position of Background image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the background image.
Position of divider image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the divider image.
Position of home image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the Home image.
Position of Left Sidepart image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the left side image.
Position of Logout image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the logout image.
Position of Open-In-New-Window image (hover) in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the "open in new window" image, when the mouse hovers over it.
Position of Open-In-New-Window image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the "open in new window" image.
Position of Reduced toolbar image (hover) in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the minimized toolbar image, when the mouse hovers over it.
Position of Reduced toolbar image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the minimized toolbar image.
Position of Right Sidepart image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the right side image.

Name	Value	Description
Position of Shrink image (hover) in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the shrink image, when the mouse hovers over it.
Position of Shrink image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the shrink image.
Position of Transparent background image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the warning image.
Position of Transparent sidepart image in CSS Sprites image	coordinates in px (-left, -top)	Specifies the offset from the left and top margin of the CSS Sprites image for the transparent side image.
Set of elements to be displayed	comma-separated list	<p>This is a comma-separated list of all the elements displayed on the hometab. The hometab is arranged in the order in which you specify these elements. Elements can be used more than once. The default specification is <code>shrink,divider,home,url,logout</code>.</p> <p>You can specify the following elements for the home tab:</p> <p>shrink Specifies the hometab shrink element.</p> <p>divider Specifies a hometab field separator element.</p> <p>url Specifies the hometab URL box element.</p> <p>home Specifies the home link and text element.</p> <p>logout Specifies the logout link and image element.</p>

Full webtop settings

You can configure the appearance of the full webtop with these settings.

Name	Value	Description
Header message icon	Image	Specifies the image for the header message icon on the full webtop. To change the image, click the image popout button at the right of the field, then click Replace . Select an image file to replace the image file. Note that you can add files to the Customization tool in the image browser.

Name	Value	Description
Help window logo	Image	Specifies the image that a webtop user can click to open the webtop online help. To change the image, click the image popout button at the right of the field, then click Replace . Select an image file to replace the image file. Note that you can add files to the Customization tool in the image browser.
Toolbar - go icon	Image	Specifies the image that a user clicks to go to a site from the webtop toolbar. To change the image, click the image popout button at the right of the field, then click Replace . Select an image file to replace the image file. Note that you can add files to the Customization tool in the image browser.
Toolbar - help icon	Image	Specifies the image that a user clicks to open the help from the webtop toolbar. To change the image, click the image popout button at the right of the field, then click Replace . Select an image file to replace the image file. Note that you can add files to the Customization tool in the image browser.

Full webtop popup window setting

You can add the company logo to the full webtop with this setting.

Name	Value	Description
Company logo	Image	Specifies the image for the company logo on the full webtop. To change the image, click the image popout button at the right of the field, then click Replace . Select an image file to replace the image file. Note that you can add files to the Customization tool in the image browser.
Show Statistics Table	on or off	Specifies whether to display make a table with connection statistics available for display on the full webtop.
Tray Icon Set	null, F5, or Generic	Specifies the icon to display in the tray.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Personalizing Images for Resources in Advanced View

What is resource image personalization?

With image personalization, you can change the image displayed for a resource on the webtop.

Personalizing resource images

Personalize webtop resource images to provide customized icons on the full webtop for resources.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. In the left pane on the Branding tab, select the resource type folder for **App Tunnels, Network Access, Remote Desktops, Portal Access, or Webtop Links**.
3. Select the resource name.
4. At the top right of the Customization settings pane, select the **Language** for which to customize the caption and description for full and mobile browsers.
5. In the **Image** area, click the icon at the right of the field to show the current icon, then click **Replace** and select a new image.
6. After you customize settings, click the **Save** icon at the top of the Customization tool.

Localizing Messages and Images in General View

What is full and mobile browser localization?

With localization, you can change the text and messages for web browsers and mobile clients for any language defined in an access profile. The Customization tool provides a tree view that you can use to navigate through the hierarchy of access profile items, in order to localize messages.

Localizing messages for common access profile settings

Localize common access profile pages to configure headers, footers, and standard warnings and text messages for a specific language.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. In the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *name_of_access_profile* > Common**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for full and mobile browsers.
5. Click **Page Header Settings** to provide a customized disconnection message.
6. Click **Page Footer Settings** to provide a customized footer for access profile pages.
7. Click **Other Settings** to configure the following settings.

Option	Description
JavaScript disabled warning	Specifies the warning when JavaScript is not enabled in the browser.
New session link	Specifies the link text to start a new session.
New session text	Specifies the text that appears before the new session link.

8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Localizing layout and content of the logon page

Customize the layout and content of components that appear on the logon page when the access policy is starting by customizing the framework pages.

Note: Use an HTML editor to edit the HTML code for the framework installation. The code appears unformatted and without line breaks in the Customization tool.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.

3. In the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *name_of_access_profile*** and click **Framework Installation**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for full and mobile browsers.
5. Customize the settings for the logon page elements.
6. After you customize settings, click the **Save** icon at the top of the Customization tool.

Framework installation settings

You can customize the following settings for general page style with the Customization tool.

Name	Value	Description
ActiveX install options screen	Formatted HTML text	Specifies the page text and links that prompt a user to install a new ActiveX® browser component. This screen appears for Windows® Internet Explorer® users only.
Allow browser plugin install screen	Formatted HTML text	Specifies the page text and links displayed when the user's browser does not currently allow software installation. This page contains information about how to enable software installation, and links to continue to install plug-ins or to continue without installing the browser plug-ins.
Allow browser plugin install screen (Linux)	Formatted HTML text	Specifies the page text and links displayed when the user's browser does not currently allow software installation. This page contains information about how to enable software installation, and links for continuing to install plug-ins or to continue without installing the browser plug-ins. This screen appears for Linux® operating systems and browsers.
Browser plugin install with manual install options screen	Formatted HTML text	Specifies the page text and links that prompt a user to install a new browser plug-in component. This screen provides manual download and installation options. This screen appears for most operating systems and browsers.
Browser plug-in install with manual install options screen (Linux)	Formatted HTML text	Specifies the page text and links that prompt a user to install a new browser plug-in component. This screen provides manual download and installation options. This screen appears for Linux operating systems and browsers.
Java applet install failure screen	Formatted HTML text	Specifies the page text and links that appear when the installation of software with a Java™ applet fails. This page allows the user options to restart the session, download and manually install the software, or continue without installing software. This page appears only on non-Windows systems.
Java applet install screen	Formatted HTML text	Specifies the text that appears on a page with a Java applet to install a new browser plugin. This page appears only on non-Windows systems. Java applet install started screen on Safari® browser specifies the page text and links that appear when the Java applet is installing software. This page appears only on Macintosh® systems with the Safari web browser.
Java applet install started screen	Formatted HTML text	Specifies the page text and links that appear when the Java applet is installing software. This page appears only on non-Windows systems.

Endpoint security settings

You can customize the following settings for endpoint security messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Antivirus check message	Text	Specifies the message displayed while the antivirus check action is checking the system.
Cache and session control ActiveX loading message	Text	Specifies the message displayed when the cache and session control ActiveX® control is loading and the user may be prompted to allow cache and session control installation.
Cache and session control ActiveX missing message	Text	Specifies the text displayed when the client requires ActiveX to start the cache and session control plug-in, and ActiveX is not available or enabled.
Cache and session control continue link	Text	Specifies the link text that the user clicks to continue when the cache and session control plug-in cannot load.
Cache and session control blocked popup message	Text	Specifies the message displayed when a popup blocker is enabled. The message includes information on how to allow popups from the BIG-IP® device. Note: We recommend that you use an HTML editor to edit the HTML code for this box. The code appears unformatted and without line breaks in the box.
Cache and session control failure message	Text	Specifies the message displayed when the cache and session control plug-in fails to start. The message includes information on possible causes. Note: We recommend that you use an HTML editor to edit the HTML code for this box. The code appears unformatted and without line breaks in the box.
Cache and session control loading message	Text	Specifies the text displayed while the cache and session control plug-in starts. Note: We recommend that you use an HTML editor to edit the HTML code for this box. The code appears unformatted and without line breaks in the box.
Checking client message	Text	Specifies the message displayed when the system is checking the client for an unspecified action.
Continue link	Text	Specifies the link text that the user clicks to continue after opening a new browser window.
Continue without endpoint inspection message	Text	Specifies the messages displayed when client-side security checks fail. You can specify link text to cancel and link text to continue. The continue link allows the client to continue on the fallback branch.
Downloading message (appended to other messages)	Text	Specifies the message displayed while the client is downloading software components.
File check message	Text	Specifies the message displayed while the file check action is checking the system.
Firewall check message	Text	Specifies the message displayed while the firewall check action is checking the system.

Name	Value	Description
Installing message (appended to other messages)	Text	Specifies the message displayed while the client is installing software.
Machine check info message	Text	Specifies the message displayed when the client is collecting machine info for the machine info check.
New browser window required message	Text	Specifies the message displayed when browser settings have changed, and the user must open a new browser window to continue.
Process check message	Text	Specifies the message displayed while the process check action is checking the system.
Virtual keyboard hide keyboard link	Text	Specifies the link text that the user clicks to hide the virtual keyboard.
Virtual keyboard label	Text	Specifies the label for the virtual keyboard.
Windows Group Policy action message	Text	Specifies the message displayed while the Windows® group policy action is configuring the system.
Windows Info check message	Text	Specifies the message displayed while the Windows information check action is checking the system.
Windows machine certificate check message	Text	Specifies the message displayed while the Windows machine certificate check action is checking the system.
Windows Protected Workspace action message	Text	Specifies the message displayed while the Protected Workspace action is starting the protected workspace.
Windows Protected Workspace continue link	Text	Specifies the link text specified that the user can click to continue without starting protected workspace.
Windows Protected Workspace continuing: extended message	Text	Specifies the message displayed when the protected workspace starts, and the system requires some time to display the protected workspace.
Windows Protected Workspace logon: short message	Text	Specifies the message displayed on the client when protected workspace resumes the logon procedure after starting.
Windows Protected Workspace started: close browser message	Text	Specifies the message displayed when protected workspace has successfully started,
Windows Registry check message	Text	Specifies the message displayed while the registry check action is checking the system.

Localizing layout and content of logout pages

Customize the layout and content of components that appear on logout pages when the access policy or user ends a session.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.

3. In the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > name_of_access_profile > Logout** and click **General**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for full and mobile browsers.
5. Customize the settings for the logout elements.
6. After you customize settings, click the **Save** icon at the top of the Customization tool.

Logout component settings

You can customize the following settings for logout messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Access not found page reject message	Text	Specifies the message displayed when the access policy cannot be completed correctly.
Access not found page title	Text	Specifies the title for the page displayed when the access policy cannot be completed correctly.
ACL denied page reject message	Text	Specifies the message displayed when the user attempts to access a page to which access is specifically denied by an access control list.
ACL denied page return link message	Text	Specifies the link text on the ACL Denied page that the user can click to return to the previous page.
ACL denied page title	Text	Specifies the title text on the ACL Denied page.
Error message	Text	Provides a more specific error message that follows the error title, which indicates that a problem may have occurred during access policy evaluation.
Error title	Text	Specifies text that indicates that the session could not start.
New session link	Text	Specifies the text label for the hypertext link to start a new session, such as click here. This link follows the New session text.
New session text	Text	Specifies text that precedes the link a user clicks to start a new session.
Session expired message	Text	Specifies the message that appears when the user session expires due to inactivity.
Session ID title	Text	Specifies the text that precedes the session number when an error occurs.
Success message	Text	Specifies the text displayed when the user logs out successfully.
Success title	Text	Specifies the text displayed when a session is finished.
Thank you message	Text	Specifies a thank you message displayed for network access users after logout.

Localizing error messages

Customize the error messages that appear when the client or browser encounters errors while processing the login page or running access policy sessions.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.

The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.

2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. In the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > name_of_access_profile > Error Messages > error_message_category**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize error messages for full and mobile browsers.
5. Customize the settings for the error messages.
6. After you customize settings, click the **Save** icon at the top of the Customization tool.

General error settings

You can customize the following settings for general error messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Access denied by ACL	Text	Specifies the error displayed when an ACL entry denies access.
Client IP address changed	Text	Specifies the error displayed if the client IP address changes while the session is in progress.
Invalid Network Access resource	Text	Specifies the error displayed when the access profile cannot find a valid Network Access resource.
Invalid Session ID	Text	Specifies the error displayed when the Session ID is not correct. This may occur because the session has timed out.
Request error	Text	Specifies the error displayed when there is a malformed request or there is another problem with a request.
Server in maintenance mode	Text	Specifies the error displayed when a session cannot start because the server is performing maintenance.
Session ID is not found	Text	Specifies the error displayed when cookies are disabled, and this causes the session ID to be unavailable in the request.
Stateful failover couldn't be supported	Text	Specifies the error displayed when the access policy has changed and due to failover issues, the admin must log in again.
System is not licensed	Text	Specifies the error displayed when a session cannot start because the system is not licensed.
Terminated Session	Text	Specifies the error displayed when the session is terminated by the server.
Unsupported User-Agent	Text	Specifies the error displayed when the browser user agent is not supported in the policy.
User limit reached	Text	Specifies the error displayed when the resource cannot be assigned because the limit on the number of sessions has been reached.

AAA error settings

You can customize the following settings for AAA error messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
AD domain password change failure	Text	Specifies the text displayed when the attempt to change the Active Directory password failed.
AD domain password change failure with extended error	Text	Specifies the text displayed when the attempt to change the Active Directory password failed, and includes the error message from the Active Directory component.
AD domain password expired	Text	Specifies the text displayed when the Active Directory domain password has expired.
AD domain password expired with extended error	Text	Specifies the text displayed when the Active Directory password has expired, and includes the error message from the Active Directory component.
Incorrect AD username or password with extended error	Text	Specifies the text displayed when the Active Directory user name or password is incorrect, and includes the error message from the Active Directory component.
Incorrect LDAP username or password with extended error	Text	Specifies the text displayed when the LDAP user name or password is incorrect, and includes the error message from the LDAP component.
Incorrect OAM username or password with extended error	Text	Specifies the text displayed when the OAM user name or password is incorrect, and includes the error message from the OAM component.
Incorrect RADIUS username or password with extended error	Text	Specifies the text displayed when the RADIUS user name or password is incorrect, and includes the error message from the RADIUS component.
Incorrect username or password	Text	Specifies the text displayed when the user name or password is incorrect.
OAM authentication error	Text	Specifies the text displayed when there is an OAM authentication error.
OAM authorization error	Text	Specifies the text displayed when there is an OAM authorization error.
OAM internal error	Text	Specifies the text displayed when there is an invalid setup for the OAM server.
OAM SDK initialization error	Text	Specifies the text displayed when there is an OAM error related to the F5 webgate and OAM SDK.
RADIUS challenge failure	Text	Specifies the text displayed when a RADIUS challenge fails.
RADIUS challenge failure with extended error	Text	Specifies the text displayed when a RADIUS challenge fails, and includes the error message from the RADIUS component.
SecurID logon failure with retry	Text	Specifies the text displayed when the RSA SecurID logon or password is incorrect.
SecurID logon failure with retry with extended error	Text	Specifies the text displayed when the RSA SecurID logon or password is incorrect, and includes the error message from the SecurID component.

Installation error settings

You can customize the following settings for installation error messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
ActiveX is not allowed or unsupported	Text	Specifies the error displayed when the access policy attempts to load an ActiveX® control in Microsoft® Internet Explorer® and ActiveX is not enabled.
Installation failure	Text	Specifies the error displayed when installation of a browser component fails.

Resource error settings

You can customize the following settings for resource error messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
ACL does not exist	Text	Specifies the error text displayed when the assigned ACL does not exist.
Inconsistent host replacement string	Text	Specifies the error text displayed when portal access resources configured in Minimal Patching mode contain inconsistent host replace strings.
Incorrect resource assigned (Network Access)	Text	Specifies the error text displayed when a resource assign action is configured to assign a portal access webtop with a network access resource. Webtop and resource types must match.
Incorrect resource assigned (Portal Access)	Text	Specifies the error text displayed when a resource assign action is configured to assign a network access webtop with a portal access resource.
Invalid Dynamic ACL Assignment	Text	Specifies the error text displayed when the dynamic ACL is incorrectly assigned or configured.
Invalid host for App Tunnel resource	Text	Specifies the error text displayed when a host that the app tunnel attempts to start a connection to does not respond correctly.
Invalid host for Remote Desktop resource	Text	Specifies the error text displayed when the host that a remote desktop resource attempts to start a connection to does not respond correctly.
Invalid Portal Access start URI	Text	Specifies the error text displayed when the portal access webtop has an invalid start URI.
Invalid Static ACL assignment	Text	Specifies the error text displayed when a static ACL is not configured correctly.
Missing Network Access resource	Text	Specifies the error text displayed when a network access webtop is configured with no network access resource. Webtop and resource types must match.
More than one Network Access resource	Text	Specifies the error text displayed when more than one network access resource is assigned to an access policy branch.
Network Access and Portal Access resources assigned	Text	Specifies the error text displayed when both network access and portal access resources are assigned to an access policy branch.
Portal Access resources have inconsistent patching methods	Text	Specifies the error text displayed when multiple portal access resources are assigned to an access policy branch, with different patching methods. All portal access resources assigned to an access policy branch must use the same patching method.

Name	Value	Description
Resource does not exist	Text	Specifies the error text displayed when the assigned resource does not exist.
Webtop does not exist	Text	Specifies the error text displayed when the assigned webtop does not exist.
Webtop required	Text	Specifies the error text displayed when a webtop is required, but not assigned.

Dynamic configuration error settings

You can customize the following settings for dynamic configuration error messages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Invalid Dynamic ACL entries	Text	Specifies the text displayed when a dynamic ACL contains invalid entries.

Other configuration error settings

You can customize the following settings for other errors that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Unknown error	Text	Specifies the text displayed when an unknown error occurs.

Localizing logon pages

Customize the messages that appear for a specific logon page or HTTP 401 response page in an access policy.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. To locate a logon page, in the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > name_of_access_profile > Access Policy > Logon Pages**.
4. Select the folder for the logon page or HTTP 401 response action.
5. Select the **General** settings.
6. At the top right of the Customization settings pane, select the **Language** for which to customize logon pages.
7. Customize the settings for the logon pages.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Logon page settings

You can customize the following settings for logon pages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Form Header Text	Text	Specifies the text that appears at the top of the logon screen.
HTTP 401 Response	Text	Specifies the text displayed when an HTTP 401 authentication error occurs.
Logon Button	Text	Specifies the text that appears on the logon button, which a user clicks to post the defined logon agents.
Logon Page Input Field # (1-5)	Text	These fields specify the text that is displayed on the logon page for each of the logon page agents, defined in the Logon Page Agent screen area.
New Password Prompt	Text	Specifies the prompt displayed when a new Active Directory password is requested.
Password and Password Verification do not Match	Text	Specifies the prompt displayed to confirm the new password when a new Active Directory password is requested.
Save Password Checkbox	Text	Specifies the text that appears adjacent to the check box that allows users to save their passwords in the logon form. This field is used only in the secure access client, and not in the web client.
Verify Password Prompt	Text	Specifies the prompt displayed to confirm the new password when a new Active Directory password is requested.

Localizing decision pages

Customize the messages that appear for decision pages.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. To locate decision pages, in the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *name_of_access_profile* > Access Policy > Decision Pages**.
4. Select the folder for the decision box page.
5. Click the **General** or **Advanced Customization Images** setting.
6. At the top right of the Customization settings pane, select the **Language** for which to customize decision pages.
7. Customize the settings for the decision pages.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

General decision page settings

You can customize the following settings for decision pages that appear in web browsers and on mobile devices with the Customization tool.

Name	Value	Description
Field 1 Image	Image	Specifies the image that appears in the first option field on the decision page. Click the icon at the right of the field to view the image. Click Replace to change the image.

Name	Value	Description
Field 2 Image	Image	Specifies the image that appears in the second option field on the decision page. Click the icon at the right of the field to view the image. Click Replace to change the image.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Localizing message box pages

Customize the message boxes that appear for message box pages.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. To locate message box pages, in the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > name_of_access_profile > Access Policy > Message Pages**.
4. Select the folder for the message box page.
5. Click **Advanced Customization Images**.
6. At the top right of the Customization settings pane, select the **Language** for which to customize message pages.
7. Customize the settings for the message box pages.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Localizing ending pages

Customize the ending pages that appear in access policies.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.

Localizing Messages and Images in General View

The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.

2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. To locate ending pages, in the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *name_of_access_profile* > Access Policy > Ending Pages**.
4. Select the folder for the message box page.
5. Click **Advanced Customization Images**.
6. At the top right of the Customization settings pane, select the **Language** for which to customize ending pages.
7. Customize the settings for the ending pages.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Advanced customization image settings

You set advanced customization images to make images you add through the image browser available to your advanced customization pages.

The **Advanced Customization Images** properties pages allow you to set advanced customization images from the image browser to associate with advanced customization image names. You can then use the image name to add an image to an advanced customization page.

To select an image from the image browser to associate with an image for advanced customization, click the button next to the current (or default) image name, and select **Replace**.

Localizing Webtops in General View

What is webtop localization?

You can customize webtop settings, including the messages displayed when starting and closing the connection, and any error messages, for any language supported on the server. A webtop must be assigned to an access profile to see and customize the webtop for the languages assigned to the access profile. If you customize a webtop that is not assigned to any access profile, you can customize the default set of languages only.

Localizing webtops

Localize webtops to configure images, text, and layout for a webtop in a specific language.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. In the left pane, expand the folders and navigate to **Customization Settings > Access Profiles > *name_of_access_profile* > Common**.
4. At the top right of the Customization settings pane, select the **Language** for which to customize localization messages for full and mobile browsers.
5. Click **Page Header Settings** to provide a customized disconnection message.
6. Click **Page Footer Settings** to provide a customized footer for access profile pages.
7. Click **Other Settings** to configure the following settings.

Option	Description
JavaScript disabled warning	Specifies the warning when JavaScript is not enabled in the browser.
New session link	Specifies the link text to start a new session.
New session text	Specifies the text that appears before the new session link.

8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Webtop form and message settings

You can customize the following settings for form and message settings that appear on webtops, in web browsers and on mobile devices, with the Customization tool.

Name	Value	Description
App Tunnels conflict with Network Access message	Text	Specifies the message that appears when an application tunnel is open and the user attempts to start a network access tunnel.
Connected message	Text	Specifies the message displayed on the login screen when the client is connected.
Connecting message	Text	Specifies the message displayed on the login screen when the client is connecting.

Name	Value	Description
Connection already established error message	Text	Specifies the message displayed when a connection is already established.
Connection closed by server error message	Text	Specifies the error message displayed when an error occurs on the server, and causes the session to fail. Check the log files for more specific information.
Connection dropped error message	Text	Specifies the message displayed when an error occurs, and the connection is dropped. Check the log files for more specific information.
Connection failed to start error message	Text	Specifies the message displayed when the connection cannot start. Check the log files for more specific information.
Connection to server could not start error message	Text	Specifies the error message displayed when the client cannot make a connection to the server. Check the log files for more specific information.
Disconnected due to configuration error message	Text	Specifies the error displayed when a configuration error causes the session to stop and the client to be disconnected.
Disconnected message	Text	Specifies the message displayed on the login screen when the client is disconnected.
Downloading progress bar (caption)	Text	Specifies the caption displayed above the progress bar when client components are downloading.
F5 plug-in not installed or incompatible plug-in error message	Text	Specifies the error message displayed when the F5 plug-in is not installed or is incompatible with the current server. This error occurs on Macintosh® and Linux clients only.
Failed message	Text	Specifies the message displayed on the login screen when the connection fails.
Initialization message	Text	Specifies the message displayed on the login screen when the login sequence is initializing.
Installation error pppd daemon not found in /usr/sbin directory (mac/linux)	Text	Specifies the error message displayed when the pppd daemon cannot start. This error occurs on Macintosh and Linux clients only.
Installation message	Text	Specifies the message displayed on the login screen when the login sequence is installing software.
Loading message	Text	Specifies the message displayed on the login screen when the login sequence is starting installed software.
Network Access client internal error message	Text	Specifies the message displayed when an internal client error occurs and causes the network access session to fail. Check the log files for more specific information.
Network Access conflict with App Tunnels message	Text	Specifies the message that appears when a network access tunnel is open and the user attempts to start an app tunnel.
Plugin installation incomplete error message	Text	Specifies the message displayed when the F5 plugin is not installed correctly. This error occurs on Linux clients only.
pppd daemon did not start error message (mac/linux)	Text	Specifies the error message displayed when the pppd daemon cannot start. This error occurs on Macintosh and Linux clients only.

Name	Value	Description
Queued message	Text	Specifies the message displayed on the login screen when the client is queued to make a connection.
Reconnecting message	Text	Specifies the message displayed on the login screen when the client is reconnecting.
Request local credentials during linux installation	Text	Specifies the code that creates a local credentials request screen. This is required for Linux systems only. We recommend that you edit this code in an HTML editor to make the layout easier to view. <i>Note: Do not add manual line breaks to the webtop form; this causes errors. Use the
 tag to add a line break to the code.</i>
Routing table change caused disconnect error message	Text	Specifies the error displayed when a change to the client routing table causes the session to stop and the client to be disconnected.
Secure connection stopped message	Text	Specifies the message displayed when the secure connection is stopped by the client. Check the log files for more specific information.
Toolbar text	Text	Specifies the text that appears in the webtop toolbar.

BIG-IP Edge Client webtop settings

You can customize the following settings for the BIG-IP® Edge Client® webtop, in web browsers and on mobile devices, with the Customization tool.

Name	Value	Description
Connection Established notification	Text	Specifies the message that appears in the BIG-IP Edge Client when a connection is established.
Disconnected due to configuration error notification	Text	Specifies the message displayed in the BIG-IP Edge Client when the connection is closed due to a configuration error.
New BIG-IP Edge Client available message	Text	Specifies the message displayed during connection, when a newer version of the BIG-IP Edge Client is available from the server.
Routing table change causes disconnect notification	Text	Specifies the message displayed when a change in the routing table on the client machine causes the client to disconnect.

Settings for showing and hiding information on webtops

You can customize the following show and hide settings for the webtop, in web browsers and on mobile devices, with the Customization tool.

Name	Value	Description
Disable logging link	Text	Specifies the link text to disable logging.
Enable logging link	Text	Specifies the link text to enable logging.
Hide label in table caption link	Text	Specifies the text on the webtop screen that the user clicks to hide a table caption.

Name	Value	Description
Show IP address configuration link	Text	Specifies the text on the webtop screen that the user clicks to show the IP address configuration.
Show label in table caption link	Text	Specifies the text on the webtop screen that the user clicks to show a table caption.
Show log file link	Text	Specifies the text on the secure access screen that the user clicks to show the log file.
Show routing table link	Text	Specifies the text on the webtop screen that the user clicks to show the routing table.
Status element	Text	Specifies the text on the webtop screen that heads the status section.

Webtop logout and relaunch settings

You can customize the following settings for logout and relaunch messages that appear on webtops, in web browsers and on mobile devices, with the Customization tool.

Name	Value	Description
Logout link	Text	Specifies the link text on the webtop screen that the user clicks to log out.
Relaunch applications link	Text	Specifies the link text on the webtop screen that the user clicks to restart the applications that are defined in the network access launch applications section.

Webtop activity section setting

You can customize the following setting for the activity section.

Name	Value	Description
Activity section caption	Text	Specifies the caption for the section that shows client and server activity.

Webtop new session settings

You can customize the following settings for new sessions on the webtop.

Name	Value	Description
New session link	Text	Specifies the link text on the webtop screen that the user clicks to start a new session.
New session text	Text	Specifies the text that precedes the new session link.

Webtop web applications session timeout settings

You can localize the timeout settings for portal access applications that are displayed on the webtop.

Name	Value	Description
Header message (idle timeout)	Text	Specifies the message displayed when the idle timeout is reached for a portal access session.

Name	Value	Description
Header message (maximum timeout)	Text	Specifies the message displayed when the maximum session time timeout is reached for a portal access session.
Postfix text for 'remaining time' message (idle timeout)	Text	Specifies the text after the seconds display in the remaining time warning for a portal access idle timeout.
Postfix text for 'remaining time' message (maximum timeout)	Text	Specifies the text after the seconds display in the remaining time warning for a portal access maximum session time timeout.
Postfix text for seconds in 'remaining time' message (idle timeout)	Text	Specifies the text after the number of seconds remaining when an idle timeout is reached.
Postfix text for seconds in 'remaining time' message (maximum timeout)	Text	Specifies the text after the number of seconds remaining when a maximum session time timeout is reached.
Prefix text for 'remaining time' message (idle timeout)	Text	Specifies the message displayed before the seconds and postfix message display in the remaining time warning for a portal access idle timeout.
Prefix text for 'remaining time' message (maximum timeout)	Text	Specifies the text before the seconds and postfix message display in the remaining time warning for a portal access maximum session time timeout.
Prefix text for seconds in 'remaining time' message (idle timeout)	Text	Specifies the text displayed before the number of seconds remaining when an idle timeout is reached.
Prefix text for seconds in 'remaining time' message (maximum timeout)	Text	Specifies the text displayed before the number of seconds remaining when a maximum session time timeout is reached.
Text for 'disconnect' button	Text	Specifies the text on the button that the user clicks to disconnect the session.
Text for 'disconnect' button tooltip	Text	Specifies the tooltip text for the button that the user clicks to disconnect the session.
Text for 'stay connected' button (idle timeout)	Text	Specifies the text on the button that the user clicks to stay connected to the session in the event of an idle timeout.
Text for 'stay connected' button (maximum timeout)	Text	Specifies the text on the button that the user clicks to stay connected to the session in the event of a maximum session time timeout.
Text for 'stay connected' button tooltip (idle timeout)	Text	Specifies the tooltip text for the button that the user clicks to stay connected to the session in the event of an idle timeout.
Text for 'stay connected' button tooltip (maximum timeout)	Text	Specifies the tooltip text for the button that the user clicks to stay connected to the session in the event of a maximum session time timeout.

Webtop hometab settings

You can localize the timeout settings for portal access applications that are displayed on the webtop.

Name	Value	Description
Home image text	Text	Specifies the text for the home image on the hometab.
Home link text	Text	Specifies the text for the home link.
Postfix text for 'remaining time' message (idle timeout)	Text	Specifies the text after the seconds display in the remaining time warning for a portal access idle timeout.
Postfix text for 'remaining time' message (maximum timeout)	Text	Specifies the text after the seconds display in the remaining time warning for a portal access maximum session time timeout.
Postfix text for seconds in 'remaining time' message (idle timeout)	Text	Specifies the text after the number of seconds remaining when an idle timeout is reached.
Postfix text for seconds in 'remaining time' message (maximum timeout)	Text	Specifies the text after the number of seconds remaining when a maximum session time timeout is reached.
Prefix text for 'remaining time' message (idle timeout)	Text	Specifies the message displayed before the seconds and postfix message display in the remaining time warning for a portal access idle timeout.
Prefix text for 'remaining time' message (maximum timeout)	Text	Specifies the text before the seconds and postfix message display in the remaining time warning for a portal access maximum session time timeout.
Prefix text for seconds in 'remaining time' message (idle timeout)	Text	Specifies the text displayed before the number of seconds remaining when an idle timeout is reached.
Prefix text for seconds in 'remaining time' message (maximum timeout)	Text	Specifies the text displayed before the number of seconds remaining when a maximum session time timeout is reached.
Text for 'disconnect' button	Text	Specifies the text on the button that the user clicks to disconnect the session.
Text for 'disconnect' button tooltip	Text	Specifies the tooltip text for the button that the user clicks to disconnect the session.
Text for 'stay connected' button (idle timeout)	Text	Specifies the text on the button that the user clicks to stay connected to the session in the event of an idle timeout.
Text for 'stay connected' button (maximum timeout)	Text	Specifies the text on the button that the user clicks to stay connected to the session in the event of a maximum session time timeout.
Text for 'stay connected' button tooltip (idle timeout)	Text	Specifies the tooltip text for the button that the user clicks to stay connected to the session in the event of an idle timeout.
Text for 'stay connected' button tooltip (maximum timeout)	Text	Specifies the tooltip text for the button that the user clicks to stay connected to the session in the event of a maximum session time timeout.

Full webtop settings

You can localize particular messages and links for full webtops.

Name	Value	Description
Applications and links	Text	Specifies the header text for the applications and links section on the full webtop.
Empty URL input message	Text	Specifies the text in the empty URL field on the full webtop.
Header message	Text	Specifies the header message for the full webtop.
Help window contents	Text/HTML	Specifies the help text in the help window. Click the edit button to the right of this field to see the full text.
Help window contents header	Text	Specifies the header for the Help window.
Network access	Text	Specifies the text for the network access section.
Toolbar - help	Text	Specifies the help link text on the toolbar.

Full webtop popup window settings

You can localize particular messages and links for full webtops.

Name	Value	Description
Action label	Text	Specifies the label for the action section on the webtop popup.
Application Name label	Text	Specifies the label for the application name section on the webtop popup.
Application Tunnels label	Text	Specifies the label for the application tunnels section on the webtop popup.
Connected to message	Text	Specifies the text for the tunnel or resource the user is connected to, on the webtop popup.
Logged in as message	Text	Specifies the label for the user name that the user is logged in as on the webtop popup.
Network access label	Text	Specifies the label for the network access section.
Optimized Applications label	Text	Specifies the label for the optimized applications section.
Page title	Text	Specifies the page title for the popup window.
Status label	Text	Specifies the text for the status label on the popup window.
Summary label	Text	Specifies the text for the label for the summary section on the popup window.
Terminate All Tunnels button	Text	Specifies the text for the button to stop all tunnel connections.
Terminate button	Text	Specifies the text for the Terminate button for a specific connection.
Terminate NA Tunnels button	Text	Specifies the text for the button to stop the network access connection.
Total Traffic label	Text	Specifies the label for the total traffic display.
Traffic compression label	Text	Specifies the label for the traffic compression display.
Traffic label	Text	Specifies the label for the traffic display.

Name	Value	Description
Traffic Received label	Text	Specifies the label for received traffic section.
Traffic Received label	Text	Specifies the label for received traffic section.
Traffic Sent label	Text	Specifies the label for sent traffic section.
Traffic Type label	Text	Specifies the label for the traffic type section.
View label	Text	Specifies the label for the view section.
Warning before closing popup	Text	Specifies the warning that appears before closing the popup window and closing all connections.
Warning when user navigated from Webtop	Text	Specifies the warning that appears when the user attempts to navigate away from the webtop and close connections.
Warning when Webtop closed	Text	Specifies the warning when the webtop popup is closed and connections are to be closed.

Full webtop Citrix logon form settings

You can localize settings for the Citrix logon form on the webtop.

Name	Value	Description
Cancel button text	Text	Specifies the text for the cancel button on the Citrix logon form.
Domain label	Text	Specifies the label for the domain field on the Citrix logon form.
Logon button text	Text	Specifies the text on the logon button on the Citrix logon form.
Logon form caption	Text	Specifies the text for the Citrix logon form caption.
Logon form caption when logon fails	Text	Specifies the text to display when Citrix logon fails.
Message to show to the user when connection to Citrix server fails	Text	Specifies the text to display when the Citrix connection fails, and a retry or cancel option is presented.
Message to show to the user when logon to Citrix server fails	Text	Specifies the text to display when the logon to the Citrix server fails, and a retry or cancel option is presented.
Password label	Text	Specifies the label for the password field.
Try again button text	Text	Specifies the text for the retry button when the Citrix logon or connection fails.
Username label	Text	Specifies the text for the label for the username field.

Full webtop Citrix installer settings

You can localize settings for the Citrix installer on the webtop.

Name	Value	Description
Citrix client not detected caption	Text	Specifies the caption when the Citrix client is not detected by the installer.
Citrix client not detected message	Text	Specifies the message when the Citrix client is not detected by the installer, and provide instructions to download the installer.
Citrix client not up-to-date caption	Text	Specifies the text when a newer Citrix client is available for download.
Citrix client not up-to-date message	Text	Specifies the message when a newer Citrix client is available for download, and provides instructions to download an updated client.
Download button text	Text	Specifies the label on the download button.
Skip installation button text	Text	Specifies the label on the button to skip installation.

Full webtop Citrix browser setting

You can localize settings for the Citrix browser on the webtop.

Name	Value	Description
Close browser	Text	Specifies the text to close the Citrix browser.

Localizing captions for webtop sections

Localize webtop sections to configure captions and descriptions for them on a full webtop in a specific language.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/ Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. Expand the **Webtop Sections** folder.
4. Select the webtop section name.
Settings display in the right pane.
5. At the top right of the Customization settings pane, select the **Language** for which to customize the caption and description for full and mobile browsers.
6. Type a **Caption** to provide a label for the webtop section on the full webtop.
7. Type a **Detailed Description** to provide a detailed description for the webtop section in the full webtop.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Localizing Captions for Resources in General View

What is resource caption localization?

With caption localization, you can change the caption and description for resources on the webtop.

Localizing captions

Localize webtops to configure captions and descriptions for resources on a full webtop in a specific language.

1. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
2. In the left pane, select the Text tab.
A navigation tree displays in the left pane.
3. Select the resource type folder for **App Tunnels, Network Access, Remote Desktops, Portal Access, or Webtop Links**.
4. Select the resource name.
5. At the top right of the Customization settings pane, select the **Language** for which to customize the caption and description for full and mobile browsers.
6. Type a **Caption** to provide a label for the resource on the full webtop.
7. Type a **Detailed Description** to provide a detailed description for the resource in the full webtop.
8. After you customize settings, click the **Save** icon at the top of the Customization tool.

Changing Customized Properties in Advanced View

About Advanced Customization view

Through the Advanced Customization view, you can directly edit PHP, CSS, JavaScript, and HTML to control the display and function of web and client pages in Access Policy Manager®. You can use the built-in editor to edit files, or you can copy and paste with an editing application of your choice.

Editing files in Advanced View

Edit files in Advanced View to configure settings not easily set in General View.

1. On the Main tab, click **Access > Profiles / Policies > Customization > Advanced**.
The Customization tool appears in Advanced Customization view, displaying the **Form Factor: Full/Mobile Browser** settings in the left pane.
2. Select the resource type folder for **Access Profiles** or **Webtops**.
3. Navigate through the folder hierarchy to find the file you want to edit, and click it.
The file appears in the built-in editor pane, with simple syntax highlighting.
4. Make the changes you require to the file. You can make changes in the editor screen, or you can edit in an external editor using copy and paste commands for your operating system.
 - To save a draft of your changes without applying them, click the **Save Draft** button.
 - To discard any changes saved with the **Save Draft** button, click **Revert**, and follow the instructions on the confirmation dialog box.
5. After you customize settings, click the **Save** icon at the top of the Customization tool.

Properties for access profiles in Advanced View

You can customize the following files for access profiles in Advanced View.

Files	Location	Description
apm_edge.css	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The CSS that controls the look and feel for BIG-IP® Edge Client® pages.
header.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Common	Specifies the page header content for access profile pages on all devices.
apm_mobile_ppc.css	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The CSS that controls the look and feel for pages on a PocketPC device.
javascript_disabled.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The layout for the page that appears when JavaScript is disabled on the client.
apm_mobile.css	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The layout properties for access policy pages on any mobile device that is not a PocketPC.

Files	Location	Description
apm_full.css	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The CSS and PHP code that controls the look and feel for pages on a web browser.
footer.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The include that specifies the footer text line.
apm.css	Customization Settings > Access Profiles > <i>access_profile</i> > Common	The PHP code that determines the CSS file that is used with a particular browser or device.
access_notfound.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Logout	The HTML, JavaScript, and PHP code that presents a page when access is not granted.
logout.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Logout	The HTML, JavaScript, and PHP code that presents a page when the user logs out. The file includes several options for different logout reasons.
my.acl.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Logout	The HTML, JavaScript, and PHP code that presents a page when the access to a page is denied for one of several reasons, including by an ACL.
http_401.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Logon Pages > <i>logon_page</i>	The page that appears when and HTTP 401 error (unauthorized) occurs.
logon.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Logon Pages > <i>logon_page</i>	A PHP file that specifies the layout and items that appear on the logon page.
decision_box.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Decision Pages > <i>decision_box</i>	Specifies the layout for the HTML that appears in a decision box.
message_box.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Message Pages > <i>message_box</i>	Specifies the layout for the HTML that appears in a message box.
access_notfound.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Ending Pages > <i>ending</i>	The HTML page that appears when access cannot be established.
logout.inc	Customization Settings > Access Profiles > <i>access_profile</i> > Access Policy > Ending Pages > <i>ending</i>	The HTML page that appears when session logout occurs for one of several reasons.
my.acl.inc	Customization Settings > Access Profiles > <i>access_profile</i> >	The HTML page that appears when access is denied because of a login failure or ACL issue.

Files	Location	Description
	Access Policy > Ending Pages > <i>ending</i>	
Macro pages	Customization Settings > Access Profiles > <i>access_profile</i> > Macros > <i>macro</i>	Macros can include any of the logon page, decision page, and message page customization files as listed here.

Properties for webtops in Advanced View

You can customize the following files for webtops in Advanced View.

Files	Location	Description
webtop_popup.css	Customization Settings > Webtops > <i>webtop</i>	The CSS that controls the look and feel for the webtop popup screen.
desktopClass.js.inc	Customization Settings > Webtops > <i>webtop</i>	The JavaScript code that specifies how the webtop page is dynamically created.
webtop_help.inc	Customization Settings > Webtops > <i>webtop</i>	The HTML code on the webtop page that provides the link to the webtop help page.
hometab.inc	Customization Settings > Webtops > <i>webtop</i>	The JavaScript code that controls the look and feel for the Home tab.

Customizing the APM logon page

Overview: Customizing the logon page

Using the Customization tool, you can personalize your logon page with your organization's brand images and colors, and change the layout of the logon page screen. In this implementation, you change a header logo image on the logon page.

Customizing a logo on the logon screen

Customization is a trial-and-error process. For practice, you should create a new virtual server and policy in Access Policy Manager® (APM®) before you start customizing your logon page.

With the customization tool, you can personalize and localize page layout, colors, images, and messages for the BIG-IP® APM browser pages.

1. In your web browser address bar, type the IP address of the BIG-IP system with which you are working.
The BIG-IP system logon page opens.
2. Right-click the logon page.
The browser shortcut menu opens.
3. Click **Inspect Element**.
The **Inspect Element** option might appear as a different name in different browsers (such as, **View Source**).
A screen displaying the HTML code of the web page opens.
4. Hover your cursor over a line of HTML code.
You can see the exact HTML code that matches the icons, text, entry fields, and buttons that appear on the GUI. The tag ID displays the type of the object on the GUI, such as a header or a banner.
5. On the logon page, in the **Username** and **Password** fields, type your user name and password, and click **Log in**.
6. On the Main tab, click **Access > Profiles / Policies > Customization > General**.
The Customization tool appears in General Customization view, displaying **Form Factor: Full/Mobile Browser** settings.
7. In the left pane, expand the folders and navigate to **Profiles > Common > *access_profile_name* > Common**, then click **Page Header Settings**.
The profile for your configuration is unique. You can select the profile that is relevant to the BIG-IP system. For other items in the Configuration utility besides the page header, use the HTML code to determine the correct tab and the policy in the Customization screen.
The Page Header Settings display.
8. For the **Header left image (Full Size)** setting, click the file path of the image in the Value column, and in the resulting field, type the file path of the new image that you want to add.
9. Click the **Save** button.
10. On the Main tab, click **Access > Profiles / Policies**.
The Profiles List screen opens.
11. Select the check box for the policy that you customized.
12. Click **Apply Policy**.
13. Click **Log Out**.

Customizing the APM logon page

The logon page opens.

The header logo is now the new image that you uploaded in the Customization screen.

Resources and Documentation

Additional resources and documentation for BIG-IP Access Policy Manager

You can access all of the following BIG-IP® system documentation from the AskF5™ Knowledge Base located at <http://support.f5.com/>.

Document	Description
<i>BIG-IP® Access Policy Manager®: Application Access</i>	This guide contains information for an administrator to configure application tunnels for secure, application-level TCP/IP connections from the client to the network.
<i>BIG-IP® Access Policy Manager®: Authentication and Single-Sign On</i>	This guide contains information to help an administrator configure APM for single sign-on and for various types of authentication, such as AAA server, SAML, certificate inspection, local user database, and so on.
<i>BIG-IP® Access Policy Manager®: Customization</i>	This guide provides information about using the APM customization tool to provide users with a personalized experience for access policy screens, and errors. An administrator can apply your organization's brand images and colors, change messages and errors for local languages, and change the layout of user pages and screens.
<i>BIG-IP® Access Policy Manager®: Edge Client and Application Configuration</i>	This guide contains information for an administrator to configure the BIG-IP® system for browser-based access with the web client as well as for access using BIG-IP Edge Client® and BIG-IP Edge Apps. It also includes information about how to configure or obtain client packages and install them for BIG-IP Edge Client for Windows, Mac, and Linux, and Edge Client command-line interface for Linux.
<i>BIG-IP® Access Policy Manager®: Implementations</i>	This guide contains implementations for synchronizing access policies across BIG-IP systems, hosting content on a BIG-IP system, maintaining OPSWAT libraries, configuring dynamic ACLs, web access management, and configuring an access policy for routing.
<i>BIG-IP® Access Policy Manager®: Network Access</i>	This guide contains information for an administrator to configure APM Network Access to provide secure access to corporate applications and data using a standard web browser.
<i>BIG-IP® Access Policy Manager®: Portal Access</i>	This guide contains information about how to configure APM Portal Access. In Portal Access, APM communicates with back-end servers, rewrites links in application web pages, and directs additional requests from clients back to APM.
<i>BIG-IP® Access Policy Manager®: Secure Web Gateway</i>	This guide contains information to help an administrator configure Secure Web Gateway (SWG) explicit or transparent forward proxy and apply URL categorization and filtering to Internet traffic from your enterprise.
<i>BIG-IP® Access Policy Manager®: Third-Party Integration</i>	This guide contains information about integrating third-party products with Access Policy Manager (APM®). It includes

Document	Description
<i>BIG-IP® Access Policy Manager®: Visual Policy Editor</i>	implementations for integration with VMware Horizon View, Oracle Access Manager, Citrix Web Interface site, and so on. This guide contains information about how to use the visual policy editor to configure access policies.
Release notes	Release notes contain information about the current software release, including a list of associated documentation, a summary of new features, enhancements, fixes, known issues, and available workarounds.
Solutions and Tech Notes	Solutions are responses and resolutions to known issues. Tech Notes provide additional configuration instructions and how-to information.

Legal Notices

Legal notices

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Patents

This product may be protected by one or more patents indicated at: <https://f5.com/about-us/policies/patents>.

Link Controller Availability

This product is not currently available in the U.S.

Export Regulation Notice

This product may include cryptographic software. Under the Export Administration Act, the United States government may consider it a criminal offense to export this product from the United States.

RF Interference Warning

This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This unit generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a

residential area is likely to cause harmful interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

Any modifications to this device, unless expressly approved by the manufacturer, can void the user's authority to operate this equipment under part 15 of the FCC rules.

Canadian Regulatory Compliance

This Class A digital apparatus complies with Canadian ICES-003.

Standards Compliance

This product conforms to the IEC, European Union, ANSI/UL and Canadian CSA standards applicable to Information Technology products at the time of manufacture.

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