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SAP Screen Personas

Product Information

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<tr>
<td>Release</td>
<td>3.0</td>
</tr>
<tr>
<td>Based On</td>
<td>SAP NetWeaver 7.0</td>
</tr>
<tr>
<td>Documentation Published</td>
<td>August 2014</td>
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Use

You can use SAP Screen Personas to personalize and transform screens that are delivered by SAP according to your business needs. You can create role-specific flavors that are managed by a central administrator, or allow each system user to create an own personalized look and feel for applications or transactions that he or she uses in the daily work.

You can also use SAP Screen Personas to record scripts that are automatically performed.

A flavor identifies a specific personalization of a particular screen, for example, the transaction Change Sales Order VA01. Every screen can have more than one flavor.

Implementation Considerations

Note the following when implementing SAP Screen Personas:

- Currently only transactions displayed in SAP GUI for HTML and applications built with Web Dynpro ABAP are supported
- The version of SAP Basis must be 7.42 or higher

Features

SAP Screen Personas provides the following features:

- **Flavors**
  You use flavors to modify screens for specific users or roles using flavors, without any programming.
  For example, you can hide fields that are not relevant or highlight important entry fields or add additional information to screens like images or sticky notes.

- **Scripts**
  You can create scripts that are automatically performed by the system.
  You can use scripts, for example, to automate sequences of specific clicks that a user has to do regularly.

  This feature is currently not supported for Web Dynpro applications.

- **Themes**
  You can create own themes for SAP GUI transactions.

  This feature is currently not supported for Web Dynpro applications. For Web Dynpro you can use the **UI Theme Designer** to create own themes. For more information see SAP Library for the User Interface Add-On for SAP NetWeaver on SAP Help Portal at [http://help.sap.com/nw-uiaddon](http://help.sap.com/nw-uiaddon).

- As an administrator, you can centrally manage all objects used in SAP Screen Personas:
SAP Library

- Flavors
- Resources (like images)
- Themes
- Users and roles
- Whitelists
- Corporate colors

For the administrative tasks, you can either use a SAP GUI transaction or a Web Dynpro application.
Flavors

You use flavors to modify screens for specific users or roles using flavors, without any programming.

You access the Flavor Manager by clicking the (Personas) button on the top of your screen you are working with.

In the Flavor Manager, you can switch flavors or return to the original screen.

For each flavor, the following information is displayed using icons:

- (Info): Hovering over this icon displays the details about the owner of the flavor, who has changed the flavor recently and when, and also the description of the flavor.
- (Default): This flavor is your default.
- (Flavor Is Shared): This flavor has been created by another user who has shared it with you.
- (Owner): This flavor is owned by you.
- (IT Supported Flavor): This flavor is owned by the IT User and cannot be modified, shared, or deleted by a business user.

You can open the Flavor Gallery to see all flavors that are shared with you. From here, you can add flavors to the Flavor Manager.

Depending on your level of authorization, you can create, edit, share, or delete flavors.
Creating Flavors

In the *Flavor Manager*, you can create a new flavor as follows:

1. Choose *Create New Flavor*.
2. Enter a name and description for the flavor.
   - You can use duplicate flavor names within and across screens.
   - You can use an existing flavor as template
3. Choose *Create*.
   
   The *Flavor Editor* opens where you can edit the flavor.

4. Save the flavor.
**Editing Flavors**

In the *Flavor Editor* you can personalize the look and feel of the current screen. To access the *Flavor Editor*, you select a flavor in the *Flavor Manager* and choose ✏️ (Edit Flavor).

You have several options as displayed in the following table:

<table>
<thead>
<tr>
<th>Tab</th>
<th>Option</th>
<th>Comment</th>
<th>Available for Web Dynpro Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Text formatting options</td>
<td>Change the formatting of a text of a selected control</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Format Copy)</td>
<td>With this option you can copy the changes you made to a control to another control. Select both the controls using the CTRL key</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Clone Control)</td>
<td>Create an exact copy of a selected control</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Bring Forward)</td>
<td>Change the order of overlapping controls</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Send Backward)</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Group Objects)</td>
<td>Create a group of objects to be able to change them all at once</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Tooltip)</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Align Objects)</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Hide)</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Fill Color)</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>[Border Style]</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Change width and height</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Assign Image)</td>
<td>You can upload new images or use images that are already available as resources in SAP Screen Personas. The supported image file formats are bmp, jpg/jpeg, png, gif, and tif.</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Alignment)</td>
<td>Change the appearance of the background image</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Stretch)</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(Image)</td>
<td>[...]</td>
<td>Yes</td>
</tr>
<tr>
<td>Component</td>
<td>Action</td>
<td>Result</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>Sticky Note</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>HTML Viewer</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Text</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Group Box</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Transaction Button</td>
<td>Insert a button to allow to navigate to a different transaction</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Menu Items Button</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Link</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Script Button</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Radio Button</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Dropdown List</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Checkbox</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Text Field</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Highlight Bindings</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Script Events</td>
<td>[…]</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Delete Object</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Tables</td>
<td>Hide Column or Show Column</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Change Column Header Text</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Move Left or Move Right</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Conditional Formatting</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Release</td>
<td>(Title) and (Description)</td>
<td>Change name and description of the flavor</td>
<td>Yes</td>
</tr>
<tr>
<td>Compress</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>New Version</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>[…]</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
Sharing Flavors

You can share flavors with other users or roles. The flavor is then available for these users in the Flavor Gallery.

1. Select a flavor you own in the Flavor Manager and choose the (Share Flavor) icon.
2. In the Share Flavor dialog box add the users or roles to share the flavor with and save.
   You can also remove users and roles.
Deleting Flavors

You can remove flavors from the *Flavor Manager* by choosing ![Delete Flavor](image). This option only removes the flavor from your view. It is still available in the *Flavor Gallery*. If you want to delete a flavor permanently, you have to contact your administrator.
**Scripts**

You use scripts in SAP Screen Personas to automate or manipulate a screen action. For example, you can automate skipping screens, prefilling of fields in the transaction, or executing a WebRFC.

Scripts are small pieces of JavaScript that are stored along with a flavor. Each flavor can have many scripts.

You can attach scripts to UI elements events, for example, the `onClick` event of a button.

### 3.1 Script Maintenance

Scripting window is the platform to record scripts. In this window, you are able to create, record, edit, validate, and save scripts. The *Scripting* window displays the scripts that are currently stored on the combination of the following:

- Flavor
- Program to which this screen belongs to
- Screen number

```
Flavor_name > Program_name > Screen_Number
```

This combination remains constant even while you navigate to different screens or programs during creation or recording of script events. Eventually, the script changes are saved to this combination of flavor, program, and screen.

**Process**

Using the *Scripting* feature, you can perform the following actions to personalize the flavor you own:

- Creating new scripts: SAP Screen Personas offers two options to create scripts, the *Script Recorder* and the *Property Inspector*. For more information, see [Recording Scripts](https://example.com) and [Changing Scripts Using Script Inspector](https://example.com).
- Renaming an existing script: You can rename an existing script by choosing the *Change Script Name* icon and changing the name in the *Current Scripts* field.
- Switching between scripts: All the scripts created for a particular flavor, program, and screen combination will be stored in the *Current Scripts* field in the *Scripting* toolbar. You can switch between scripts by choosing the script from the dropdown list in the *Current Scripts* field.
- Undo and redo the script events: You can undo or redo a script addition to the scripting area by choosing the undo or redo buttons.
- Deleting scripts: You can delete scripts by choosing the script name from the *Current Scripts* field and clicking the *Delete Selected Script* icon given in the *Scripting* toolbar.
SAP Library

- **Saving scripts:** You can save scripts that are created, edited or validated by choosing the (Save All Script Changes) icon.

**Scripting Toolbar**

The scripting toolbar offers a host of buttons that enable you to work with scripts.

- **Undo and Redo icons:** undo and redo a script action
- **Execute button:** executes the scripts
- **Validate button:** validates and displays any syntax errors in the script
- **Start Recording button:** toggles between start and stop recording actions

- **Create New Script icon:** creates new scripts
- **Current Scripts field:** lists all the scripts available for a combination of the current flavor, program, and screen; also to enter the name of a new script
- **Accept New Script Name:** toggles between accepting new script name and changing the current script name
- **Save All Script Changes:** saves the new or modified scripts
- **Delete Selected Script:** deletes selected scripts

- **Inspector button:** chooses a specific object on the screen and display its scripts
- **Logging button:** logs changes to the script properties and syntax errors, if any
- **Object Selector:** picks specific objects from the screen in order to modify its scripts
3.1.1 Recording Scripts

Procedure

Recording scripts is one of the options to create scripts. You can record scripts by capturing various screen actions, validating them for any syntax errors, and then executing them. The saved script can then be added to a custom control in your flavor. For more information about adding scripts to custom controls, see Maintaining Script Events [External]

1. Log into the HTML GUI by providing a valid user name and password.
   The SAP Easy Access screen appears.

2. Launch a transaction where you own a flavor and click the (Personas) button.
   The Flavor Manager appears displaying the flavor you own.

3. Select the flavor you own and choose the (Scripting) option given in the Flavor Bar. The Scripting window slides up on the screen.

4. Choose the (Create New Script) option and enter a name for the script in the Change Name of Current Script field.

5. Click (Add New Script Name) toggle button.

6. Choose the Start Recording option and perform the required screen actions that you want to capture. For example, filling transactions, navigating to different transactions and so on.

7. Choose the Stop Recording option.

8. Click Validate to ensure there are no syntax errors and choose Execute to check if the recorded actions execute properly.

9. Click the Save All Script Changes button to save the scripts.

! Remember to always save all script changes. Even when you delete a script, it is not deleted until you save the changes.

Result

The scripts of various screen navigations that were recorded will be stored and can be executed when required. Additionally, this script can be associated to a custom control in the Flavor Editor.
3.1.2 Changing Scripts Using Script Inspector

Procedure

1. Log into the HTML GUI by providing a valid user name and password.
   
   The SAP Easy Access screen appears.

2. Launch a transaction where you own a flavor and click the (Personas) button.
   
   The Flavor Manager appears displaying the flavor you own.

3. Select the flavor you own and choose the (Scripting) option given in the Flavor Bar.
   
   The Scripting window slides up on the screen.

4. Click the (Object Selector) in the right section of the Scripting window.
5. Select any screen element that you want to modify from the screen.
   
   The Inspector inspects the scripts of the screen element and lists all the properties related to it.

   Most properties listed in the Inspector section will be read-only and greyed out. You can edit only those properties that are not greyed out in the Inspector section.

6. Click Attach to Script icon of any of the properties in the Inspector section. The property template appears in the script editing area.
7. Change the attributes of the properties and choose the Validate button Execute button to check the property changes.
8. Click (Save All Script Changes).

Result

The selected screen element will be modified in your flavor of the transaction.
3.1.3 Viewing Logs

The logging feature lists all the changes made to different properties of a script and also lists the syntax errors occurring while modifying the scripts. It is imperative to use the `sessions.utils.log` and the string parameter in order to log the modifications.

**Procedure**

1. Select the flavor you own and choose the (Scripting) option given in the Flavor Bar. The Scripting window slides up from the bottom of the screen.
2. Click the (Object Selector) in the right section of the Scripting window.
3. Select any screen element that you want to modify from the screen. The Inspector inspects the scripts of the screen element and lists all the properties related to it.

   Most properties listed in the Inspector section will be read-only and greyed out. You can edit only those properties that are not greyed out in the Inspector section.

4. Click the Attach to Script icon of any of the properties in the Inspector section. The property template appears in the script editing area.
5. Change the attributes of the properties and add the `sessions.util.log` (string) in another line of the script and choose Enter.
6. Click (Save All Script Changes).

**Result**

The change log is displayed under the Logging section. Any syntax errors in the script while modifying, are displayed as logs.
Themes
You use themes to change the visual appearance of all transactions. Once you select a theme, it is not only applied to the current screen but is applied to all the other screens that you use. Themes can also be assigned to specific user groups.

This feature is currently not supported for Web Dynpro applications. For Web Dynpro you can use the UI Theme Designer to create own themes. For more information see SAP Library for the User Interface Add-On for SAP NetWeaver on SAP Help Portal at http://help.sap.com/nw-uiaddon.

From the Flavor Manager, you can open the Theme Gallery. In the Theme Gallery, you can see all themes that are available for you. You can switch themes or create new ones.

You can change the following properties of transactions using themes:
- Background image
- Background colors of controls
- Font type and font size
Administrating SAP Screen Personas

As an administrator for SAP Screen Personas you have the following:

- Managing flavors
- Managing resources
- Managing themes
- Managing users and roles
- Migrating flavors from SAP Screen Personas 2.0
- Perform additional administrative tasks
- Defining a whitelist
- Defining corporate colors

You can use the administration transaction `/personas/admin` or the Personas Administration Web user interface.
Managing Flavors

On the *Personas Administration* screen, you have the following options:

- You can search for unused flavors or for flavors that are marked for deletion to be able to clean-up the database.
- You can search for flavors and perform the following actions on multiple flavors at the same time:
  - Mark flavors for deletion
  - Export flavors
  - Transport flavors
  - Restore flavors
  - Import flavors that have previously been exported

This feature is only available in the Web Dynpro application.

- You can open a flavor for editing and perform the following actions:
  - Share a flavor with users or roles
    If a flavor is shared with a user, the user can find it in the *Flavor Gallery*.
  - Assign a flavor to users or roles
    If a flavor is assigned to a user, this is the flavor that is applied to the screens for this user.
  - Copy a flavor
  - Export a flavor
    You can export a flavor to be able to import it into a different system
  - Transport a flavor
  - Translate a flavor

- Import flavors that have previously been exported

This feature is only available in the Web Dynpro application.
Managing Resources

Images that can be used in flavors are stored as resources in SAP Screen Personas. The supported image file formats are bmp, jpg/jpeg, png, gif, and tif.

On the **Personas Administration** screen, you have the following options:

- You can search for unused resources or for resources that are marked for deletion to be able to clean-up the database.
- You can search for resources and perform the following actions on multiple resources at the same time:
  - Mark resources for deletion
  - Export flavors
  - Transport flavors
  - Restore flavors
  - Import flavors that have previously been exported

  This feature is only available in the Web Dynpro application.

- You can open a resource for editing and perform the following actions:

  - Copy a resource
  - Export a resource
    - You can export a resource to be able to import it into a different system
  - Upload a resource anew
  - Transport a resource
  - Preview a resource
  - Delete and restore a resource
  - Check the where-used list for a resource

  - Create new resources via upload
  - Import resources that have previously been exported

  This feature is only available in the Web Dynpro application.
Managing Themes

Administration of themes is not supported in the Web Dynpro application.

On the Personas Administration screen, you have the following options:

- You can search for unused themes or for themes that are marked for deletion to be able to clean-up the database.

- You can open a theme for editing and perform the following actions:
  - Assign a theme to users or roles
    - If a theme is assigned to a user, this is the flavor that is applied to the screens for this user.
  - Copy a theme
  - Export a theme
    - You can export a theme to be able to import it into a different system
  - Transport a theme
  - Add a preview for a theme
  - Delete and restore a theme
Managing Users and Roles

On the Personas Administration screen, you have the following options:

• You can open the configuration of a user for a specific transaction or application for editing and perform the following actions:
  o Lock or unlock a user
  o View user status and authorizations
  o Share flavors
    Make flavors available in the Flavor Galery of this user
  o Assign flavors and select the default flavor
    Make flavors available in the Flavor Manager of this user

• You can search for users

This feature is only available in the Web Dynpro application.

• You can open the role assignment of a specific user for editing and perform the following actions:
  o Add a role
  o Remove a role
  o Restore a role
  o Transport a role
  o Increment or decrement the role rank
    If a user has multiple roles assigned, the role rank determines which role settings are applied to a screen
  o Assign flavors to roles
  o Assign themes to roles

Administration of themes is not supported in the Web Dynpro application.

• You can search for roles and perform the following actions on multiple roles at the same time:
  o Create a new role
  o Increment or decrement the role rank
  o Delete roles

This feature is only available in the Web Dynpro application.
Additional Administrative Tasks

On the Personas Administration screen, you have the following options:

- **Run Health Check Tool:**
  This tool helps you to check if the various configurations have been implemented appropriately. If the status of any of the elements is not green, please contact the administrator.

  This feature is not available in the Web Dynpro application.

- **Maintain Screen ID Overwrite Entries:**
  If two or more screens appear similar, use this option to enable Personas system to maintain the entries of both the screens. The important parameters to be considered here are **App ID**, **ABAP Program Name**, **Old Screen Number**, and **New Screen Number**.

  This feature is not available in the Web Dynpro application.

- **Maintain Control ID Overwrite Entries:**
  If two or more controls appear similar, use this option to enable Personas system to maintain the entries of both the controls. The important parameters to be considered here are **App ID**, **Program Name**, **Screen Number**, and **Overwrite ID Alias**.

  This feature is not available in the Web Dynpro application.

- **Perform Clean Up Activities:** This option allows you to permanently delete the following:
  - Flavors
  - Resources
  - Themes
  - Flavor Cache
  - MIME Cache
  - Migration Mapping

  This feature is not available in the Web Dynpro application.
Migrating Flavors

This feature is **not** available in the Web Dynpro application.

If you already used SAP Screen Personas 2.0, you can migrate the flavors as follows:

1. Open transaction *Personas Administration* `/personas/admin`.
2. From the *Migration* option in the menu bar, choose the *Migrate 2.0 Flavors* option from the dropdown list.
3. In the *Flavor Migration* screen, select the required flavors based on the criteria given in *Flavor Selection* and *Status Selection* sections.
4. Alternatively, select the *Show Migrations* option from the *Migration* dropdown menu.
5. Select the required flavors and choose either *Migrate Selection*, *Ignore Selected Flavors*, or *Mark as Migrated*.
6. Save the changes.

You can view the migrations using the *Show Migrations* option in the *Migrations* dropdown menu.
Creating Whitelists

This feature is **not** available in the Web Dynpro application.

You can use whitelists for the following purposes:

- **Input help (F4 Help Whitelist)**
  You can add tables to the whitelist which will then be available as input helps in the *Flavor Editor*.

- **URL whitelist**
  This whitelist defines, which URLs are available in the Flavor Editor for creation of custom HTML controls and launch buttons which open web pages in your browser.

To create whitelists choose the related entry in the *GoTo* menu bar in transaction *Personas Administration* /personas/admin.
Defining Corporate Colors

This feature is not available in the Web Dynpro application.

You determine the set of colors that are available for the color picker in the Flavor Editor.

To define corporate colors choose the related entry in the GoTo menu bar in transaction Personas Administration /personas/admin.