WDA - Custom themes for Web Dynpro ABAP applications without SAP Enterprise Portal integration

Applies to:
SAP Netweaver 2004s

Summary
This document shows how to use custom themes for Web Dynpro ABAP applications without SAP Enterprise Portal integration.

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Create custom themes

How to get the theme files
There are two ways of getting the required css-files:

• Use the portal theme editor and copy the theme files
• Use the report BSP_UPDATE_MIMEREPOS to download the mime files from "/SAP/PUBLIC/BC/UR/NW5/THEMES/SAP_TRADESHOW" and modify them manually

How to upload the modified theme
First you need to create a new folder for the theme files in the mime repository. You can create new folders below the "/SAP/PUBLIC" folder in transaction SE80 (use "MIME-Repository").

In the following example a new folder “CustomerThemes” and under this folder the folder “Standard” are used.
The next step is to upload the modified theme to the new theme folder. This can be done with the report `BSP_UPDATE_MIMEREPOS` (execution might take a while).
Use custom themes in Web Dynpro ABAP applications

Url parameter SAP-CSSURL

The theme for the application can be set using the url parameter “SAP-CSSURL”. There is also an undocumented url parameter “SAP-EP-THEMEROOT” which can be used if you encounter problems with the other parameter. The url will look like “https://<server>:<port>/sap/bc/webdynpro/sap/<application>?sap-cssurl=/sap/public/<folderOfYourCustomTheme>”.

Programmatic way to set the Url parameter

In case you cannot call the application with the url parameter or need to decide dynamically which theme should be used the application must set the parameter.

The following example shows a way to do this:

Add an outbound plug of type “Exit” with a parameter “URL” of type “String” to your window.

Add a parameter to the default inbound plug (or another inbound plug of type “startup”) of type string (in this case the parameter “RUN”).

Add coding to the handler of the inbound plug to fire the outbound plug with the modified url. Example:

```
DATA: lr_ref TYPE REF TO cl_wd_utilities,
       lv_url TYPE string.
*Only if this is the first call
IF run is initial.
*Construct URL
   CREATE OBJECT lr_ref.

   CALL METHOD cl_wd_utilities=>construct_wd_url
      EXPORTING
         application_name = 'Z_TEST'
      IMPORTING
         out_absolute_url = lv_url.
```
CONCATENATE lv_url
    '?sap-cssurl=/SAP/PUBLIC/UR/CustomerThemes/Standard'
    '&run=X' INTO lv_url.
    wd_this->fire_out_plg( url = lv_url ).
ENDIF.

The parameter “RUN” is used to determine if it is necessary to change the url. After the first call the parameter will have the value “X” and the coding won’t fire the exit plug again (otherwise it would lead to an endless loop). In order to avoid an exception you need to add the parameter “RUN” to the application parameters.

Hint:

If you get a null pointer exception take a look at note 946490 which corrects an error with the use of exit plugs in the window.

Related Content

- SDN Web Dynpro area
- SDN Web Dynpro forum
- How to change the theme of Web Dynpro Java applications