Implementation Warehouse Management for Mobile Devices Using ITS



Applies to:

Enter SAP technology or product release (release 6.0, SP, etc.) to which this article or code sample applies (optional). For more information, visit the <u>Mobile homepage</u>.

Summary

Document for generating pages in ITS Mobile by creating service as well as removing spaces between elements and optimizing the size of elements

Author: Suresh Nair

Company: L & T Infotech Ltd.

Created on: 07 December 2009

Author Bio



Suresh Nair works at L & T Infotech Ltd in the ABAP module.

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Creation of Service

Tcode: SICF	
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Click of Execute Button / F8 this would take you to another screen

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Click on the Treeview Default_Host

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Drill down to its directory by following: Default Host->SAP->bc->gui->sap->its

Right click on the ITS directory and select New Sub Element

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Path /default_host/sap/bc/gui/sap/its/	
Service Name ZZ_SPX_WM_MENU Service (Active)	
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Description	
Description 1 Service for ITS Warehouse Management	
Description 2	
Description 3	
Service Data Logon Data Handler List Error Pages Administration	
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Name it as **ZZ_SPX_WM_MENU** enter short description

Incase of GUI link select 'YES' and click on GUI Configurations where in you will set the parameters

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Parameter Descriptions

- 1) THEME : 99
- 2) ~TRANSACTION: Tcode for your program e.g.: ZITSMOBILE
- 3) '# ' is for adding comments
- 4) ~ITSMOBILE : '1'

5) ~SOURCES : 'ZZ_SPX_WM_MENU, itsmobile' sequence here is very important

First the service name and it should be followed by standard SAP provided service that is

Itsmobile

6) ~ITSMOBILEELEMFACTOR: '6' define the factor (integer number) by which the width of visible elements will be multiplied.

7) ~ITSMOBILEELEMUNITS : 'px' defines which measurements units will be used.

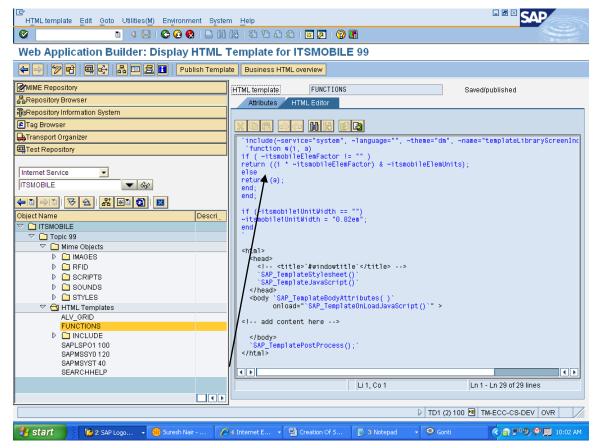
The above parameters that are **~ITSMOBILEELEMFACTOR**, **~ITSMOBILEELEMUNITS** are meant for your size of objects and spacing between elements, this parameters play a vital role in spacing between elements and sizing of objects. If those parameters are not set then

If those factor are not specified, the default factor "0.82" and default units "em" will be used (these defaults are defined in the constructor of the CL_ITS_GENERATE_HTML_MOBILE4 class)

This calculation is done in a function called "w()" which is implemented in ITSMOBILE/99/FUNCTIONS template, but you can have your own function, just copy the FUNCTIONS.HTML template into your service and define parameter

~itsmobileFuncInclude if the template name has changed during copying.

The function module mentioned in the Internet service is shown in the below



After setting up the Parameters in Internet Service click on "Logon Data" TAB select procedure "Alternative Logon Procedure"

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Scroll Down and go to <u>Logon procedure List</u> Delete rest of the attributes except for "Field Authentication" shown in the below image

Er Service Edit System Help	
Create/Change a Service	
Path /default_host/sap/bc/gul/sap/its/ Service Name ZZ_SPX_WM_MENU Lang. Image: Constraints of the service (Active) Lang. Image: Constraints of the service for ITS Warehouse Management Description Description 1 Service Data Logon Data Handler List Error Pages Authentication SSL Image: Standard SAP User Internet User	
Logon Procedure List (in Order of Execution)	
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Click on	<u>Handler</u>	List tab	do n	ot make	any	changes	live it as it	is

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Create/Change a Service	
Path /default_host/sap/bc/gui/sap/lts/ Service Name ZZ_SPX_MM_MENU Lang. English Description Description 1 Service for ITS Warehouse Management Description 2 Description 3 Service Data Logon Data Handler List Handler List (in Order of Execution) N Handler 1 2 3 4	
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Path /default_host/sap/bc/gui/sap/its/ Service Name ZZ_SPX_WM_MENU Lang. English	
Description	
Description 1 Service for ITS Warehouse Management	
Description 2 Description 3	
Service Data Logon Data Handler List Error Pages Administration	
Header Page	
Explicit Response Page Body	
Alias	
Body Page	
O Redirect to URL Status 2	
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W/o Form Fields O Form Fields (Text Form)	
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Cannot activate system logon; entries missing in alternative logon order	(1) 100 🖭 TM-ECC-CS-DEV OVR
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Select tab Error Pages in the Logon Errors tab scroll down and select the option

Also click on **<u>Configuration</u>** button in the same tab following thing should be as seen in the image:

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Service Name ZZ_SPX_WM_MENU	Settings Selection		
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Description Description 1 Service for IT	Define Service-Specific Settings		
Description 2			
Description 3	System Logon Settings	Default /	
	Select Display	Default	
Service Data Logon Data	Client	Language	
	✓ Language		
Header Page	System Messages	Logon Layout and Procedure	
	Logon and System Information	O SAP Implementation	
Explicit Response Page Bo		Tmpl.	
Body Page	Actions During Logon	SAP Icon	
	Protocol Do Not Switch		
O Redirect to URL	Do Not Display Warnings	User-Specific	
Redirect	Check for Mulitple Logon Support Accessibility	Class CL_MOBILE_SYSTEM_LOGIN	
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Class selection is very important this make pages that appear in the scanner mobile size format. Click on adjust Links and Images

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Create/Change a Service	
Path /default 🗁 Configuration System Logon: Specify Links and I	nages 🗵 🖊
Service Name ZZ_SPX URLs for Additional Links	
Lang. English Specify a URL to make the relevant link on the logo	n page visible
Description When a link is selected the parameter "sap-return-	
Description 1 Se Register	
Description 2 Password Forgotten	
Description 3 AGB	
Data Prot.	
Service Data L Contact	
Imprint	
Header Page	
Adjustment of the Logon Page	
Explicit Response Specify the URLs for the images you want to use in	stead of the standard images
Image for Header	
Body Page Image for Footer,	
FURL for Image	
O Redirect to URL	
Redirect Here you can enter your own copyright text	
Copyright Note	
W/o Form Field	
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Rest all tabs in the **Error Pages** are to be left without change, Clicking on the administration would only give information.

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Create/Change a Service	
Path /default_host/sap/bc/gui/sap/its/	
Service Name ZZ_SPX_WM_MENU Service (Active)	
Lang. English 🗈 🔿 Other Languages	
Description	
Description 1 Service for ITS Warehouse Management Description 2	
Description 3	
Service Data Logon Data Handler List Error Pages Administration	
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User BNAIR Client 100	
Client 100 Created On 20.11.2009	
Last Changed By SNAIR	
Client 100	
Changed On 24.11.2009	
Service Identification D6X8VICKX8I2FTI1TPQ420R64	
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After completing the above settings save it and click on the back button this would take you to the following screen.

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Now would be disabled / deactivated . As we need to activate it select the newly created service name and click on Activate service

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It becomes enabled and activated to try that whether service is working just click on the service

Er Service/Host Edit Goto Client System Help	
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Maintain service	
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Click on test service this should open your default explorer and with the URL generated by SAP and it should bring the login screen of SAP as shown below:

🕹 ITSmobile login - Mozilla Firefox	
Datei Bearbeiten Ansicht ⊆hronik Lesezeichen E⊻tras Hilfe	
C X 🏠 http://tm-ecc-cs-dev.sap.local:8000,	/sap/bc/gui/sap/its/zz_spx_wm_menu?sap-client=100 🏠 🔹 🔽 • Yahoo 🔎 💽 •
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Creation of Templates

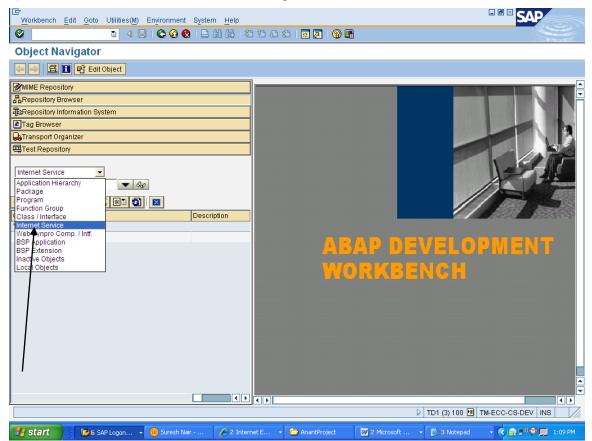
Before creating templates certain steps are mandatory and need to be done. Need to Publish Services and Complete Services for SAP Internet Services following are they

- 1) ITSMOBILE
- 2) ITSGENMOBILE
- 3) ITSGENMOBILE4
- 4) ITSGENMOBILEXV

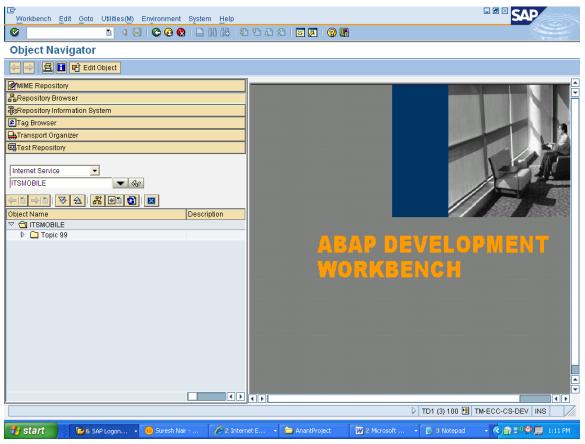
Procedure for doing it .

1) Enter Tcode SE80.

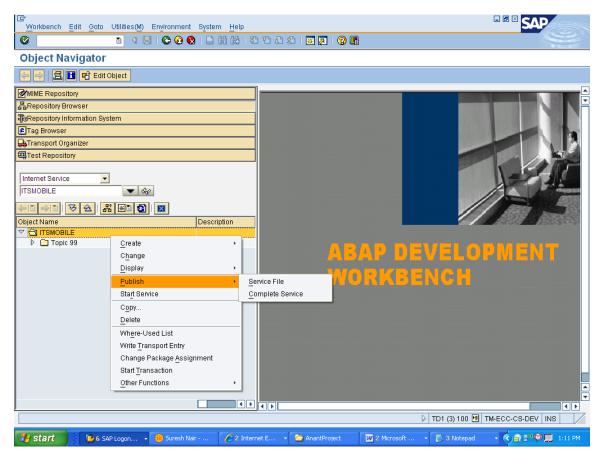
2) Select Internet Service as shown in the Image



3) Enter "ITSMOBILE"



Right-click on ITSMOBILE



There are two option first select **Service File**, secondly perform **Complete Service** the same action has to be performed for the others also for eg: ITSGENMOBILE etc.

As we would be generating the templates through the New HTML generator we need to add certain data manually

- 1) Enter Tcode SM30
- 2) W3GENSTYLES

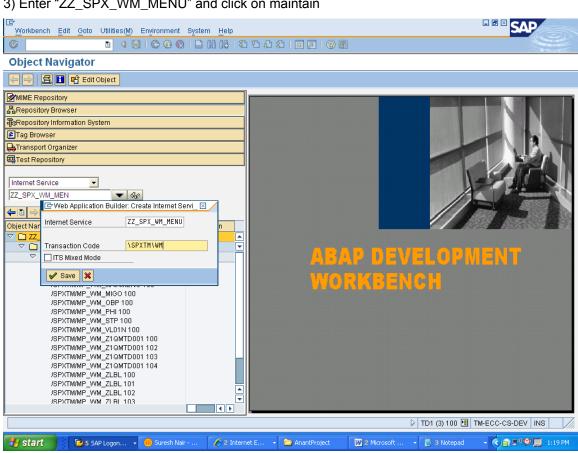
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Maintain Table Views: Initial Screen	
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Enter the Style as Mobile4 , Class as CL_ITS_GENERATE_HTML_MOBILE4 and description

After performing the above action for all the four Standard Internet Service. Start creating your own Internet Service. The Internet service name should be same as the Services created. In our example as we have created ZZ_SPX_WM_MENU as the service so the internet service should be also same .

- 1) Goto Tcode SE80 tcode
- 2) Select Internet Service



3) Enter "ZZ_SPX_WM_MENU" and click on maintain

Enter the Tcode of your program, do not select ITS MIXED MODE and click on SAVE

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MIME Repository		Internet service	ZZ_SPX_WM_MENU	Saved/published	
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		~ITSMOBILEELEMU	INITS	рх	
		~THEME		99	
Object Name	Description	~TRANSACTION		/SPXTMAVM	
ZZ_SPX_WM_MENU	▲ ▼				
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Double click on Internet Service name for parameters

1) ~TRANSACTION

: /SPXTM/WM

2) ~THEME

: 99 it should be always '99' 3) ~ITSMOBILEDEVICEINCLUDE : DEVINCLUDE_SYMBOL3090

: 0

- 4) ~ITSMOBILE :1
- 5) ~GENERATEDYNPRO

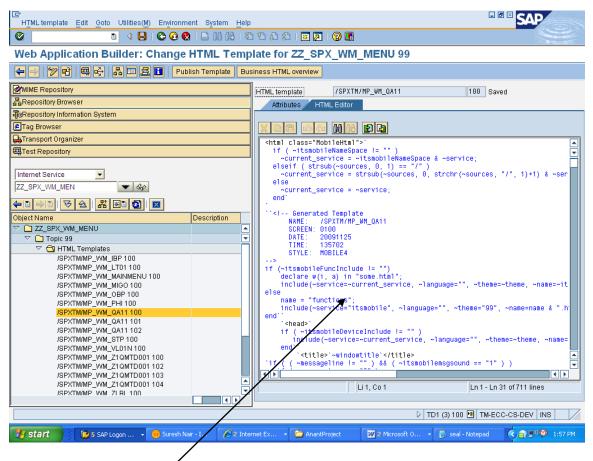
After performing the above action Right click on ZZ_SPX_WM_MENU and create HTML pages

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/SPX /SPX Copy	
/SPX Delete	
/SPX — /SPX Where-Used List	
/SPX Write Transport Entry	
/SPX Change Package Assignment	
/SPX Start Transaction	
/SPX Other Functions	
/SPXTM/MP_V/M_ZLBL 102	
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Select the Theme and enter	he program name, screen	no and select the generating styl	le

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HTML code generated by SAP

And click on Save Button like that you need to add all the module pool programs and screens. After adding just click on the Internet service "ZZ_SPX_WM_MENU" and publish the Service as well as Complete the service

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/SF Publish Service File		
/SF Start Service Complete Ser	Invice	
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/SF		
/SF Where-Used List		
/SF Write Transport Entry		
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Publish the Service File and Complete service

Check URL

For checking wheather the URL is working or not

Goto SCIF tcod

년 Program Edit Goto System Help	
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Enter Service Name "ZZ_SPX_WM_MENU" and click on execute / F8

E Service/Host Edit	Goto <u>Client</u> System <u>H</u> elp			
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	Activate Service			
	Deactivate Service			
	Test Service			
	Test Load Balancing			
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It should take you to the service, right click on the service, click on TEST SERVICE

This should open your default browser, ask for login/ID and password please select client, enter your SAP UserID and password

🕙 ITSmobile login - Mozilla Firefox	
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If everything is fine the page should look as follows

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