Notes from SEMO Web Dynpro ABAP review:

**Elda Prudden, Kevin Lyons 4/25/2012**

Design summary

- Level of design detail dependent on PM/customer
- SEMO developed within suite of Building Services apps, specific reference point
- Started with SAP_TRADESHOW_PLUS theme early in the process
- Design process relatively easy with Rita Z, Lisa St Croix.
- Reviewed proposed design with designers at Monday meeting and separate 2-hr 1-1 session with Nancy to come up with basic guidelines for the SEMO applications (e.g. plain background for labels, fill3 for all shading)

WDA summary

- Leverage SAP Do's and Don't document (AKA "Checklist for High-Performance WDA Programming") – great starting point:
    - http://help.sap.com/saphelp_nw70ehp1/helpdata/en/5e/b29046859d48d68af26c16c75d4a89/content.htm
- SAP and EPI-USE recommended splitting WDA apps into 2 primary WDA components: Model Components (MC's) and View Components (VC's).   Model components to handle data calls/updates, i.e. business logic.   View components to handle screen logic, UI, and flow.   SEMO was developed in this fashion, so you see two WDA components (at least) per SEMO transaction: ZPM_VC_WORDER and ZPM_MC_WORDER.   Actually, the logic for all 3 SEMO applications (Create, Change and Display), reside within the above 2 Web Dynpro components (i.e. separate VC and MC components do not exist per SEMO transaction); so, I was able to re-use parts of the same views and some of the logic for all 3 applications. I did it this way in hopes of using the same views/logic/etc. if I ended up converting the 12 current Java work order apps.
- SAP no longer recommends this approach. They now recommend use of an ABAP "Assistance class" to perform all back-end, business logic (replaces the MC).   Use Web Dynpro methods only for view component logic (VC functionality).   This is deemed better for performance. See Do's / Don'ts document.
- Naming conventions: mostly SAP provides the convention. A few MIT-specific topics could be reviewed: Component, Plug, View, Window.
- Break simpler pages into re-useable sub views (e.g. work description, contact info) that can be re-used in larger views (e.g. create and display)

For the MIT header & footer, use MIT custom WDA component ZCA_MIT_HEADER_FOOTER. See instructions below on how to include in your WDA app:
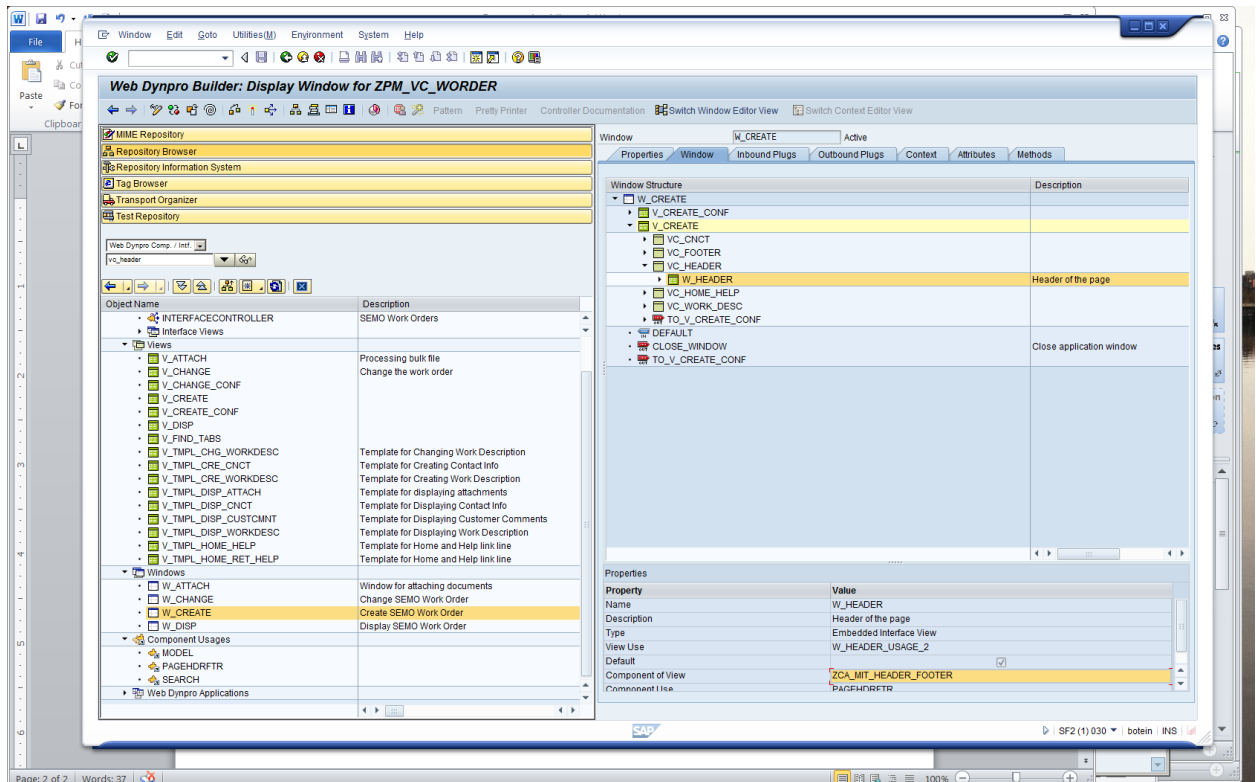
1. Add to top level "Used Components" tab of your WDA app:
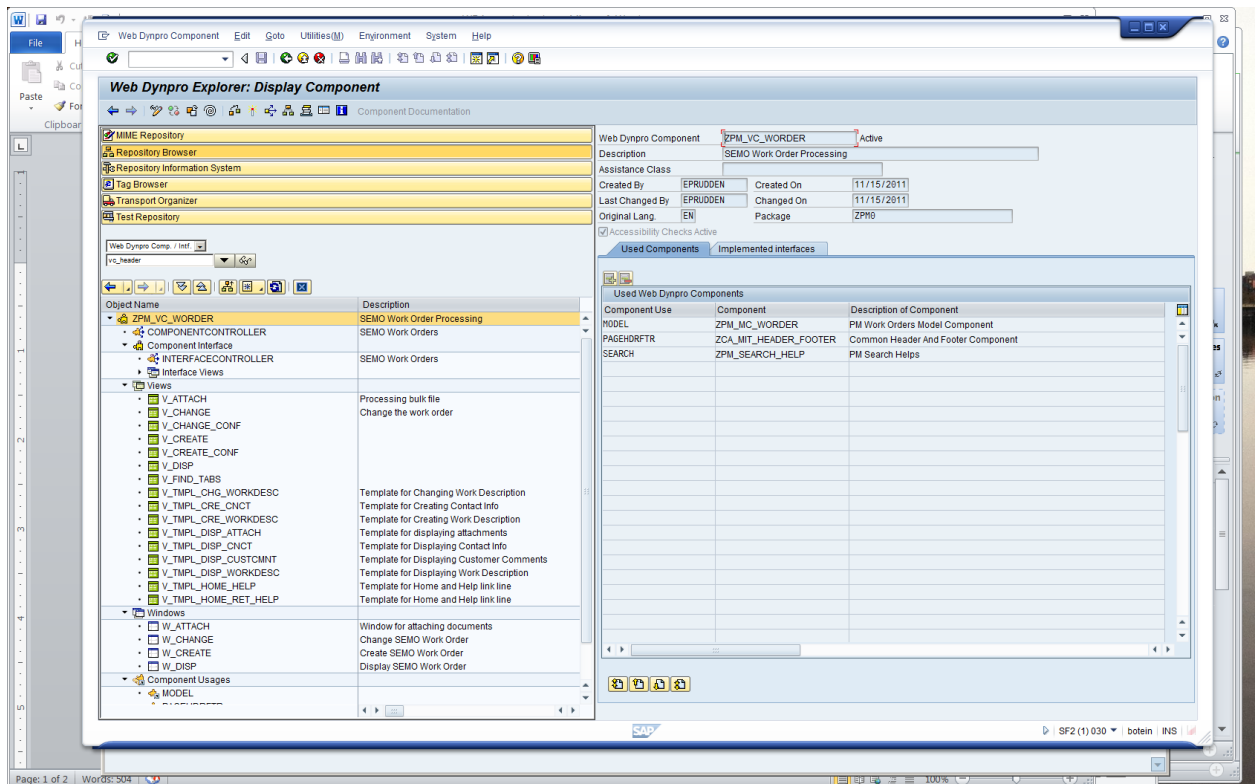
2. Add to the View a ViewContainerUIelement

f. Perform WDA layout discovery effort – compare Grid, Matrix, Flow, Form [1 week]
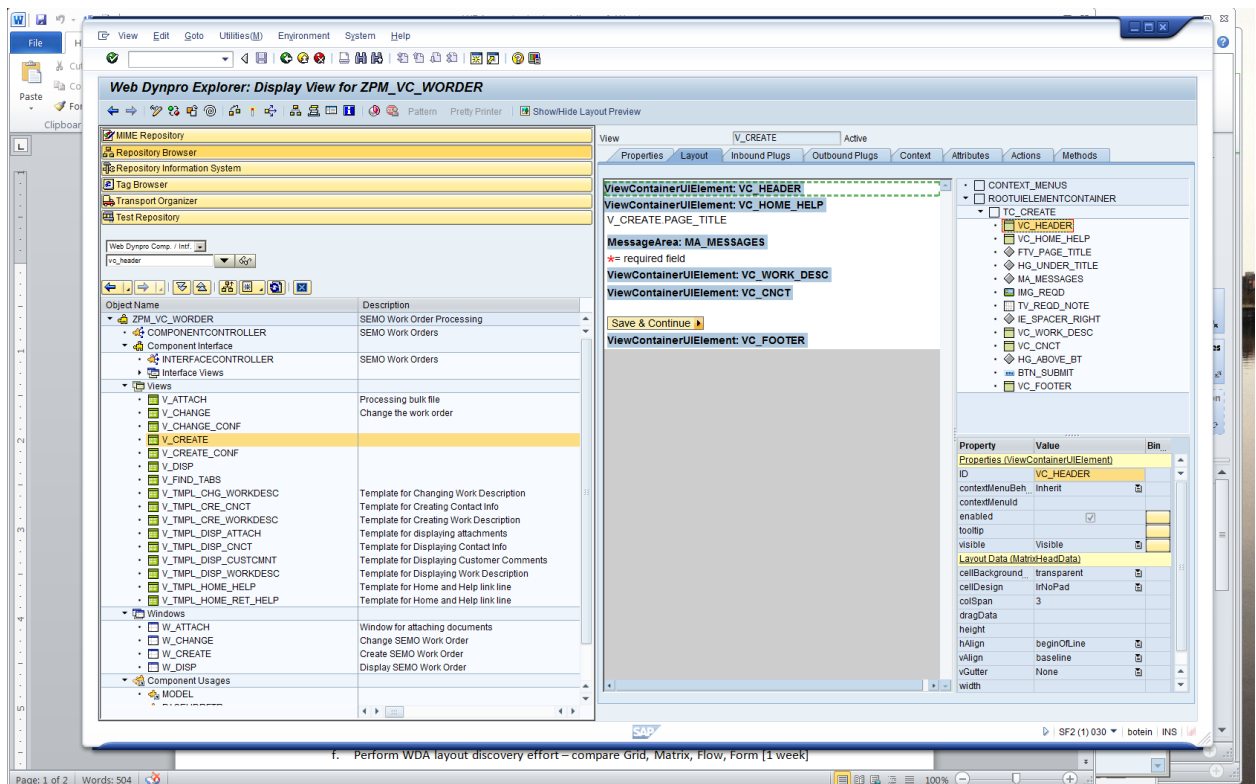
3. Within the Window, assign the view of the Used View Component from step 1

o For consistency with other Building Services apps, a white background was desired. This was achieved by creating a Transparent Containuer UI element with attributes CellBackground set to 'plain' and horizontal and vertical stretch boxes checked.

o To achieve shading of group of input fields, put each individual input element in transparent container, with fill3 cellBackgroundDesign, see below

View	V_TMPL_CRE_WORKDESC	Active

Properties | **Layout** | **Inbound Plugs** | **Outbound Plugs** | **Context** | **Attributes** | **Actions** | **Methods**

Describe the problem *

Location of the problem

Building *   V_TMPL_CRE_WORKD 🔍

Room *   V_TMPL_CRE_WORKD   e.g. 214 or Lobby

Location   V_TMPL_CRE_WORKD   e.g. Front entrance

Cost Object   V_TMPL_CRE_WORKD   enter for project work

Special instructions

Include any access restrictions or scheduling requirements

Do you want an estimate for this work? ○ Yes ◉ No

- CONTEXT_MENUS
- ▼ ROOTUIELEMENTCONTAINER
  - ▼ TC_PROB_DESC
    - ▶ TC_SECTION_HDR_FOR_PROB_DESC
    - ▼ TC_TEXT_1
      - TE_PROB_DESC
  - ▼ TC_PROB_LOC
    - ◆ SH_PROB_LOC
    - T LB_BLDG
    - ▶ TC_BLDG
    - T LB_ROOM
    - ▶ TC_ROOM
    - T LB_LOC
    - ▶ TC_LOC
    - T LB_COSTOBJ
    - ▶ TC_COSTOBJ
  - ▶ TC_SPEC_INSTR

Property	Value		Bin
scrollingMode	none	📄	
tooltip			
visible	Visible	📄	
width			
Layout (MatrixLayout)			
stretchedHorizo...		☐	
stretchedVertically		☐	
Layout Data (MatrixData)			
cellBackground...	fill3	📄	
cellDesign	rPad	📄	
colSpan	1		
height			
hAlign	beginOfLine	📄	
vAlign	top	📄	
vGutter	None	📄	
width			

Preference to use standard SAP icons whenever possible.

Any custom icons / images should be place in the ITS MIME repository (path below). Do not use custom themes to store images since it is unclear if we will use custom themes in the future.

imageHeight	
imageSource	/sap/public/bc/its/mimes/zsapweb/99/images/icon_mitlogo.gif
imageWidth	

Location of the problem

Building *

Room *

The lookup / search "magnifying glass" icon:

Is a remnant from the MIT1 theme. ==We should / could replace it with the standard SAP binoculars.==

Do you want an estimate for this work? ◯ Yes ⦿ No

Radio-buttons placed horizontally, no discussion:

Pop-up screens:

- use transparent container for white background
- set width of screen via table property

Display/Change SEMO work order:

Users had complained about the side-by-side layout for years (here's the current Work Order Search)

insideMIT

Search Work Orders

Search by Order Number

* Order Number

* Building 🔍

* Required for Search by Number.
Building required only if order is not yours.

Search by Number | Clear

Open Search of Kevin P Lyons's orders only

Customer Name	Kevin P Lyons
Building	🔍 Room e.g. 214 or Lobby
Location	e.g. Briggs field
Creation Date	2/2/12 to 5/2/12
Cost Object	
Status	

Search | Clear

MIT IST Need business help or technical support?
Review our contact information for assistance.

Replacing with tabs and adding a list of recent orders was a big improvement:

When to use a button versus a link (see above "Search" versus "Clear Fields"), see Nancy.