

Flexible UI for WCM Objects

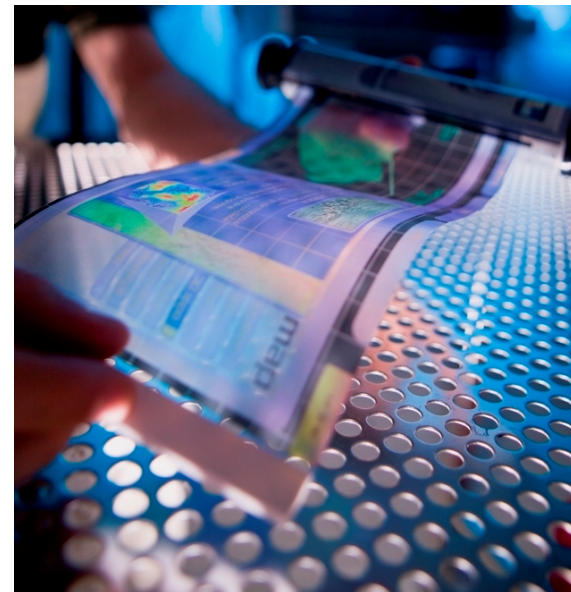
Release ERP 6.0, EhP5



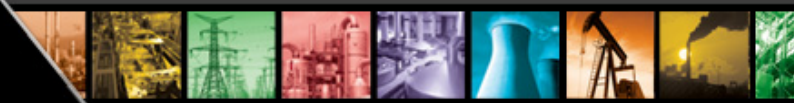
Michael Lesk

WCM Focus Group, April 2010

Tampa, Florida

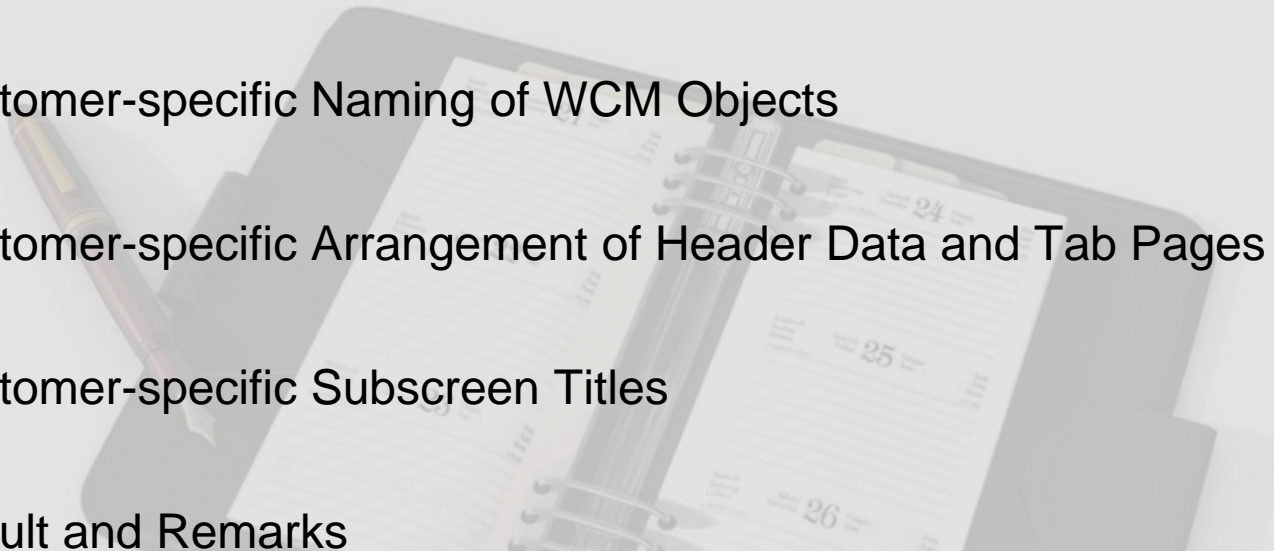


SAP-CENTRIC EAM
Inspiring Individuals – Empowering Enterprises

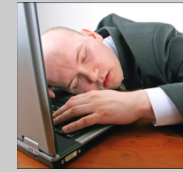


wcm

Agenda

- **1. Motivation**
 - 2. Customer-specific Naming of WCM Objects
 - 3. Customer-specific Arrangement of Header Data and Tab Pages
 - 4. Customer-specific Subscreen Titles
 - 5. Result and Remarks
- 

1) Motivation



- Let's have a look at the header screen of a WCM object (here: Operational WCD) up to now:

Operational WCD Edit Goto Extras System Help

Change Operational WCD: Header

WC Applications Activity QM

WC Document: 300000025204 Repair Compressed Air-Supply 004

Status: CRTE

Valid From: 30.06.2009 00:00:00 Valid To: 20.05.2010 00:00:00

Priority: Recall Time:

Overall Condtn: AB mode "ramp-down"

Revision Phase:

Reference Object

Functional Loc.: 80ETP01 Compressed-Air Supply

Equipment:

Train: PRI Train PRI

Responsibilities Location Data Planning Data

Planner Group: 100 / 1200 Hr. Reuter

Work Center: MECHANIK / 1200 Mechanical maintenance

AuthorizGroup:

Generic object services

Status processing and audit trail

Assignment of partners

Long text processing

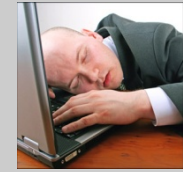
Assignment of documents

Assignment of permits

Use of catalog technique

Assignment of technical objects

1) Motivation



- Let's have a more detailed look at our Operational WCD:

The screenshot shows the WCM Operational WCD interface. Red boxes and arrows highlight specific features:

- Operational WCD** (Menu Item): Points to the menu bar.
- Change Operational WCD Header** (Menu Item): Points to the menu bar.
- Navigation to Additional Data** (Arrow): Points to the right side of the menu bar.
- WC Object Name (Menus, Sub Menus, GUI Titles)** (Text): Points to the menu bar.
- Reference Object** (Text): Points to the "Reference Object" label.
- Subscreen Titles** (Text): Points to the "Reference Object" label.
- Arrangement of Header Data** (Text): Points to the right side of the header data area.
- Tab Pages** (Text): Points to the "Responsibilities", "Location Data", and "Planning Data" tabs.

The interface displays the following data:

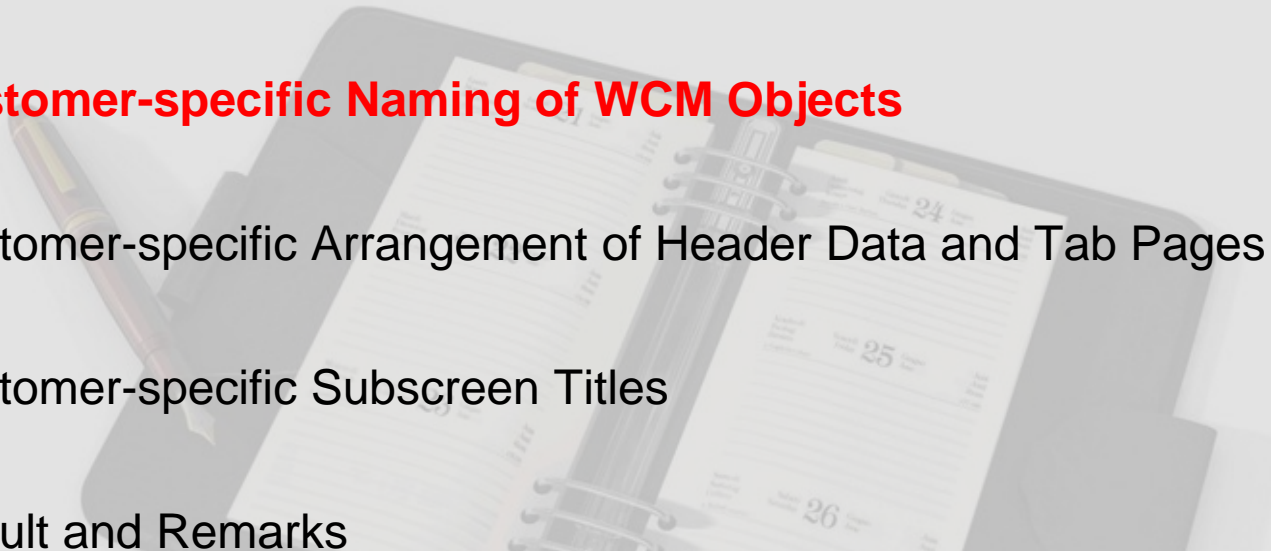
WC Document	300000025204	Repair Compressed Air-Supply	004
Status	CRTE		
Valid From	30.06.2009 00:00:00	Valid To	20.05.2010 00:00:00
Priority		Recall Time	
Overall Condtn	AB mode "ramp-down"		
Revision Phase			
Reference Object	80ETP01	Compressed-Air Supply	
Equipment			
Train	PRI	Train PRI	
Planner Group	100 / 1200	Hr. Reuter	
Work Center	MECHANIK / 1200	Mechanical maintenance	
AuthorizGroup			

1) Target for EhP5



- Target for EhP5 is to provide an integrative UI flexibility for **all WCM objects**:
 - Individual naming of WCM objects by means of appropriate customizing
 - Arbitrary arrangement of header data
 - Reuse of the well-known *view profile* customizing concept implemented in PM
 - Additional requirements:
 - Whole header screen shall be adjustable without any system-defined layout fixations
 - Customer-specific data shall be integrable everywhere on the header screen
 - Optional definition of (1-6) tabstrip controls with free specification of tab pages
 - To be integrated in the *view profile* customizing
 - Individual titles for data subscreens
 - To be integrated in the *view profile* customizing
 - Provision of further data subscreens for:
 - Additional data (e.g. text controls, partners, documents)
 - Orders and operations assigned to an application (WAPI)
 - New attributes for WAPIs: customizable work types & safety requirements

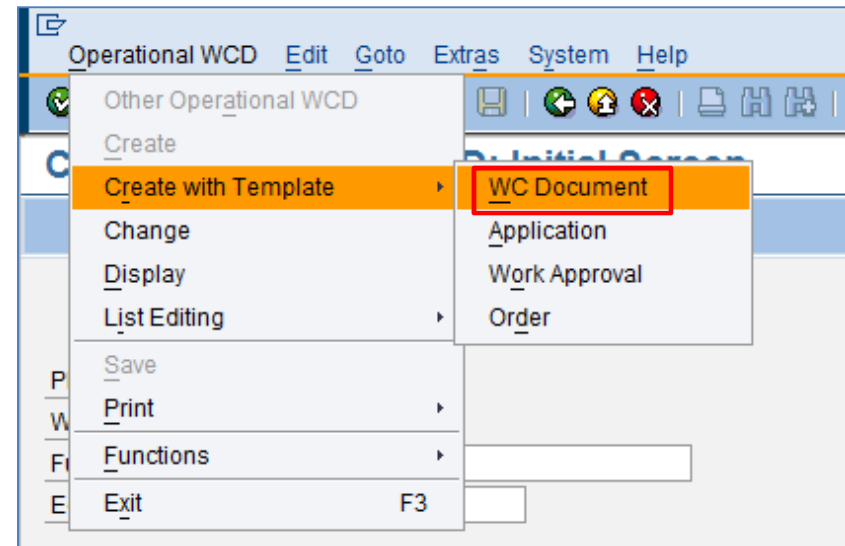
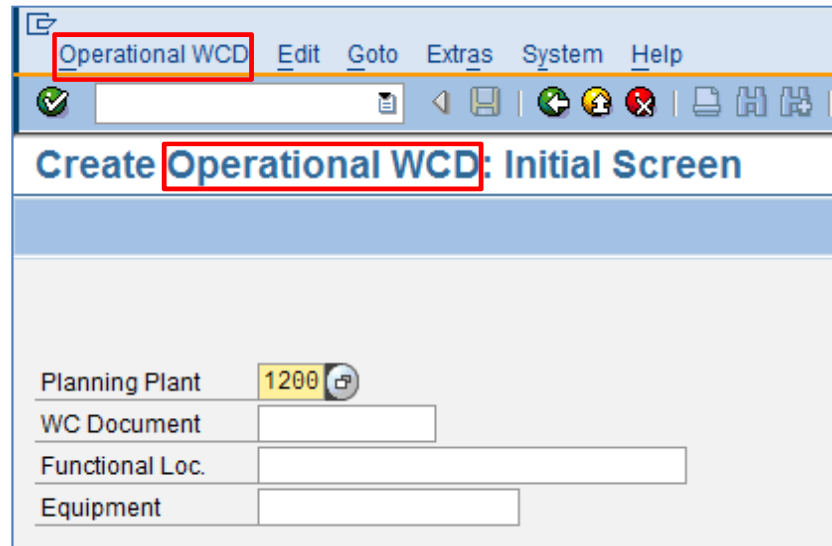
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2) Entry Screen of WCM Objects



- Let's have a look at the entry screen of an Operational WCD up to now:



- How to rename the generic term “WC Document” to e.g. “Valve&Blind List”?
- How to rename the specific term “Operational WCD” to “Operational V&B List”?
 - And “WCD Template” to “V&B List Template”?
- Note that a renaming would affect:
 - GUI Status of the WCD screens
 - Menus and sub menus of the WCD screens

2) Search Help for WCM Objects



- Obviously, the same questions apply to other screens, e.g. search help for WCDs:

Program Edit Goto System Help

Search Help - Display **WC Documents**

Items

Approval Status

Status of WC Document

- ☐ Created
- ☐ Prepared
- ☐ Untaggable
- ☐ Processing
- ☐ Tagged
- ☐ Untagged
- ☐ Closed
- ☐ Change mode
- ☐ Test cycle
- ☐ Conflict
- ☐ Temporarily Untagged
- ☐ Work permit printed
- ☐ Object Deactivated
- ☐ Rejected
- ☐ Deletion Flag

General Data Reference Object Responsibilities Approvals Catalogs Documents Administration Data

Planning Plant	1200
Type of WCM Object	Operational WCD
WC Document	Operational WCD
Short Text	WCD Template
Priority	

2) EhP5 Customizing: Rename Descriptions



- How to rename the specific terms for WCDs (and for all other WCM objects):

The screenshot shows the SAP EhP5 Customizing interface. On the left, the 'Structure' pane shows the path: Work Clearance Management > Master Data > Maintain Application Profile > Architecture > Define Descriptions. The 'Define Descriptions' menu item is highlighted with a red box. A red line connects this menu item to the 'Change View "Define Descriptions": Overview' table on the right.

The 'Change View "Define Descriptions": Overview' table displays the following data:

PIPI	Typ	Typ	Description	Description in Plural
1200	OR		Order	Orders
1200	WA	1	WP - Level 1	WPs - Level 1
1200	WA	2	WP - Level 2	WPs - Level 2
1200	WD	0	Operational V&B List	Operational V&B Lists
1200	WD	T	V&B List Template	V&B List Templates
1200	WI		V&B List Item	V&B List Items
1200	WW		Master WP	Master WPs

2) EhP5 Customizing: Rename Generic Descriptions



- How to rename the generic term for WCDs (and for all other WCM objects):

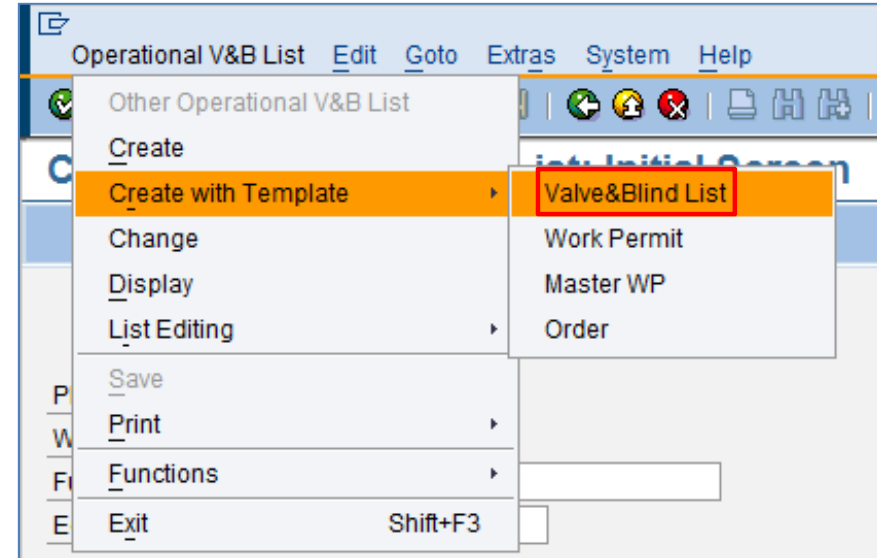
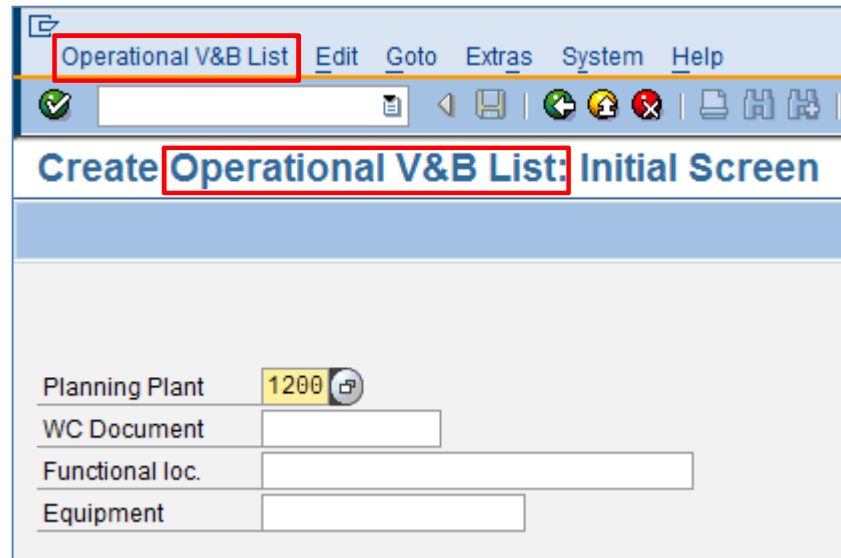
The screenshot shows the SAP EhP5 Customizing interface. The left pane displays the 'Structure' tree with 'Define Generic Descriptions' highlighted. The right pane shows the 'Change View "Define Generic Descriptions"' window, which contains a table with the following data:

PIPI	Typ	Description of WCM Object	Description of WCM Object in Plural
1200	WA	Work Permit	Work Permits
1200	WD	Valve&Blind List	Valve&Blind Lists

2) Entry Screen of WCM Objects after Renaming



- Now let's check the entry screen of our renamed Operational WCD:



- Renaming has changed:
 - GUI Status of the WCD screens
 - Menus and sub menus of the WCD screens

2) Search Help of WCM Objects after Renaming



- And let's check the search help for our renamed WCDs:

Program Edit Goto System Help

Search Help - Display **V&B Lists**

Items

Approval Status

System Status

☐ Created ☐ Closed

☐ Prepared ☐ Change mode

☐ Untaggable ☐ Test cycle

☐ Processing ☐ Conflict

☐ Tagged ☐ Temporarily Untagged

☐ Untagged ☐ Work permit printed

☐ Object Deactivated ☐ Deletion Flag

☐ Rejected

General Data Reference Object Responsibilities Approvals Catalogs Documents Administration Data

Planning Plant 1200

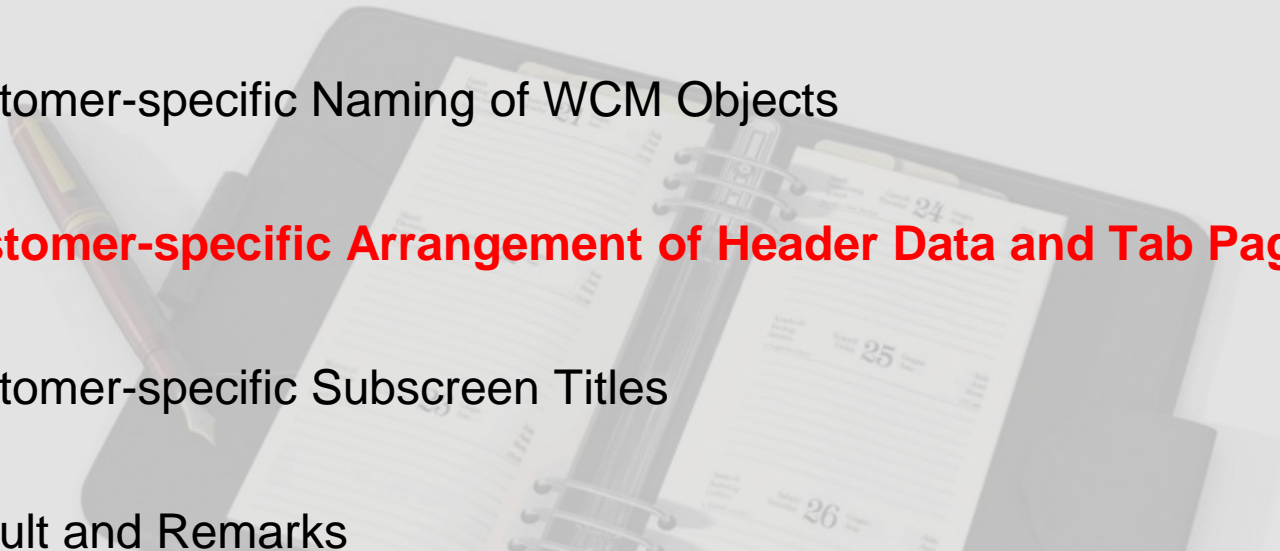
Type of WCM Object Operational V&B List

WC Document Operational V&B List

Short Text V&B List Template

Priority to

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 - 4. Customer-specific Subscreen Titles
 - 5. Result and Remarks
- 

3) Can we change the WCM Object Screen Layout?



- Can we change the layout for our Operational V&B Lists as follows?

Ty.	Document	DPt	Vs	Description
DRW	000001635	000	00	Exceptions - Process
DRW	T-D11	000	00	Technical documentation

→ Identification on top (with titled frame)

→ Validity below (with titled frame)

Tab Page "Asset Data" with:

- Tag/Line Data
- Location Data
- Document Links (→ instead of navigation)

Tab Page "Responsibilities" with:

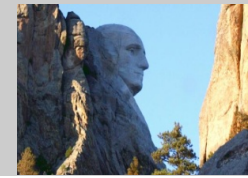
- Applicant
- Partner (→ instead of navigation)
- Planning Data

Tab Page "Description" with:

- Long Text (→ instead of navigation)
- Tagging Text (→ instead of navigation)
- Untagging Text (→ instead of navigation)



3) EhP5 Customizing: Define View Profiles

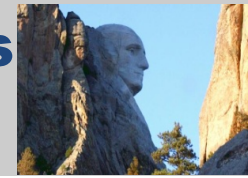


- 1st Level – Basic definition of the view profile (name and description):

The screenshot displays the SAP EhP5 Customizing interface. The main window is titled 'Display IMG' and shows a tree structure on the left. The 'View Profiles' node is expanded, and the 'Define View Profiles' sub-node is selected. The 'Define View Profile' dialog box is open, showing the 'Overview' tab. The dialog box contains a table with the following data:

View Profile	View Profile Text	Max. Screen Width
\SAPDEMO_WCD	Example Profile: Work Clearance Document	85 Columns
\SAPDEMO_WP	Example Profile: Work Permit	85 Columns

3) EhP5 Customizing: Arrange Header Subscreens

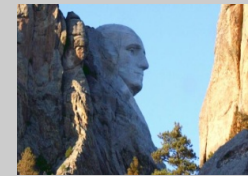


- 2nd Level: Arrange subscreens (either data screen or tabstrip) on header screen:

A screenshot of the SAP EhP5 Customizing interface. The title bar shows 'Table View Edit Goto Selection Utilities System Help'. The main title is 'Change View "Define Screen Areas of a View Profile": Overview'. Below the title bar, there are icons for 'New Entries' and other functions. On the left, a 'Dialog Structure' tree shows the hierarchy: 'Define View Profile' > 'Define Screen Areas of a View Profile' > 'Define Tab Pages of a Tabstrip' > 'Define Screen Areas of a Tab Page' > 'Define Individual Data Screen Attributes'. The main area shows a table titled 'Define Screen Areas of a View Profile' with columns: 'Subscreen', 'Screen Element', 'Text', 'Sequence Number', 'Ins. Blank Line', 'Border/Heading', and 'Right Justify'. The table contains three rows: '8200 Identification Position 1', '8310 General Data Position 2', and '6000 Tabstrip (1) Position 3'. The 'Position 1', 'Position 2', and 'Position 3' cells are highlighted in yellow. The 'Ins. Blank Line', 'Border/Heading', and 'Right Justify' columns have checkboxes. The 'Border/Heading' column has checkboxes checked for 'Position 1' and 'Position 2'. The 'Right Justify' column has checkboxes checked for 'Position 1' and 'Position 2'. The 'Position 3' row is highlighted in blue. The 'View Profile' field shows '\SAPDEMO_WCD' and the 'Profile Text' field shows 'Example Profile: Work Clearance Document'.

- Available options for each header subscreen:
 - Assignment of a sequence number to define the vertical sequence (mandatory)
 - Display of a closing blank line (optional)
 - Display of a border with a title around (optional, only for data subscreens)
 - Positioning on the right-hand side of the screen area (optional, only for data subscreens)

3) EhP5 Customizing: Define Tab Pages



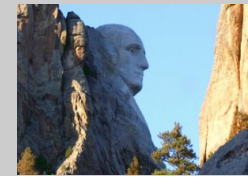
- 3rd Level: Define desired tab pages and their sequence:

A screenshot of the SAP EhP5 'Define Tab Pages of a Tabstrip' dialog. The dialog has a menu bar (Table View, Edit, Goto, Selection, Utilities, System, Help) and a toolbar. The title bar reads 'Change View "Define Tab Pages of a Tabstrip": Overview'. Below the title bar is a 'New Entries' button and a 'Dialog Structure' tree on the left. The tree shows a hierarchy: Define View Profile > Define Screen Areas of a View Profile > Define Tab Pages of a Tabstrip > Define Screen Areas of a Tab Page > Define Individual Data Screen Attributes. The main area contains fields for 'View Profile' (SAPDEMO_WCD), 'Profile Text' (Example Profile: Work Clearance Document), 'Subscreen No.' (6000), and 'Screen Text' (Tabstrip (1)). Below these fields is a table titled 'Define Tab Pages of a Tabstrip'. The table has four columns: Tab Page, Screen Element Text, Icon, and Hide. Three rows are visible: Tab Page 1 (Asset Data), Tab Page 2 (Responsibilities), and Tab Page 3 (Description). The 'Tab Page' and 'Screen Element Text' columns are highlighted in yellow, and the 'Icon' and 'Hide' columns are highlighted in light blue. Red boxes are drawn around the 'Tab Page', 'Screen Element Text', and 'Hide' columns for the first three rows.

Tab Page	Screen Element Text	Icon	Hide
Tab Page 1	Asset Data		<input type="checkbox"/>
Tab Page 2	Responsibilities		<input type="checkbox"/>
Tab Page 3	Description		<input type="checkbox"/>

- Available options for each tab page:
 - Definition of a tab page title (mandatory)
 - Definition of an icon for the tab page (optional)
 - Deactivation of the tab page as a (temporary) alternative to final deletion (optional)

3) EhP5 Customizing: Arrange Tab Subscreens



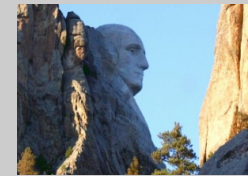
- 4th Level: Arrange data subscreens (no more tabstrips) on each tab page:

The screenshot shows the SAP EhP5 Customizing interface. The title bar reads 'Change View "Define Screen Areas of a Tab Page": Overview'. The left pane shows the 'Dialog Structure' with the following hierarchy: Define View Profile > Define Screen Areas of a View Profile > Define Tab Pages of a Tabstrip > Define Screen Areas of a Tab Page (highlighted). The right pane contains fields for 'View Profile' (SAPDEMO_WCD), 'Profile Text' (Example Profile: Work Clearance Document), 'Subscreen No.' (6000), and 'Tab Page' (Asset Data). Below these fields is a table titled 'Define Screen Areas of a Tab Page' with the following data:

Subscreen	Screen Element Text	Sequence Number	Ins. Blank Line	Border/Heading	Right Justify
8320	Reference Object	Position 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8330	Location Data	Position 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8380	Documents	Position 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Available options for each tab page subscreen:
 - Assignment of a sequence number to define the vertical sequence (mandatory)
 - Display of a closing blank line (optional)
 - Display of a border with a title around (optional)
 - Positioning on the right-hand side of the tab screen area (optional)

3) EhP5 Customizing: Available Subscreens



■ Overview on available subscreens and their titles:

Define Screen Areas of a View Profile

Subscreen Internal Number of a Subscreen (1) 29 Entries found

Subscreen	Screen Element Text	Scrn Wid...	Comment
6000	Tabstrip (1)	085	
6005	Tabstrip (2)	085	
6010	Tabstrip (3)	085	
6015	Tabstrip (4)	085	
6020	Tabstrip (5)	085	
6025	Tabstrip (6)	085	
8200	Identification	081	
8300	Customer-Specific Data (1)	040	
8310	General Data	081	
8320	Reference Object	080	
8330	Location Data	068	
8340	Responsibilities	073	
8350	Planning Data	062	Not for WCD Template
8360	Long Text	074	
8365	Requalification Text	074	Not for Work Clearance Docs
8370	Partner	081	
8380	Documents	083	
8390	Tagging Text	074	Only for Work Clearance Docs
8395	Untagging Text	074	Only for Work Clearance Docs
8400	Customer-Specific Data (2)	040	
8410	Work (1)	038	Only for Applications
8411	Work (2)	038	Only for Applications
8412	Work (3)	038	Only for Applications
8413	Work (4)	038	Only for Applications
8420	Requirements (1)	038	Only for Applications
8421	Requirements (2)	038	Only for Applications
8422	Requirements (3)	038	Only for Applications
8423	Requirements (4)	038	Only for Applications
8430	Order	081	Only for Applications

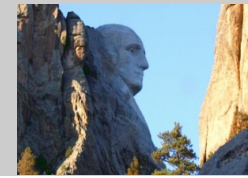
29 Entries found

uxai3q35

Only for Header Screens

For Header and Tab Screens

3) EhP5 Customizing: Assign View Profiles

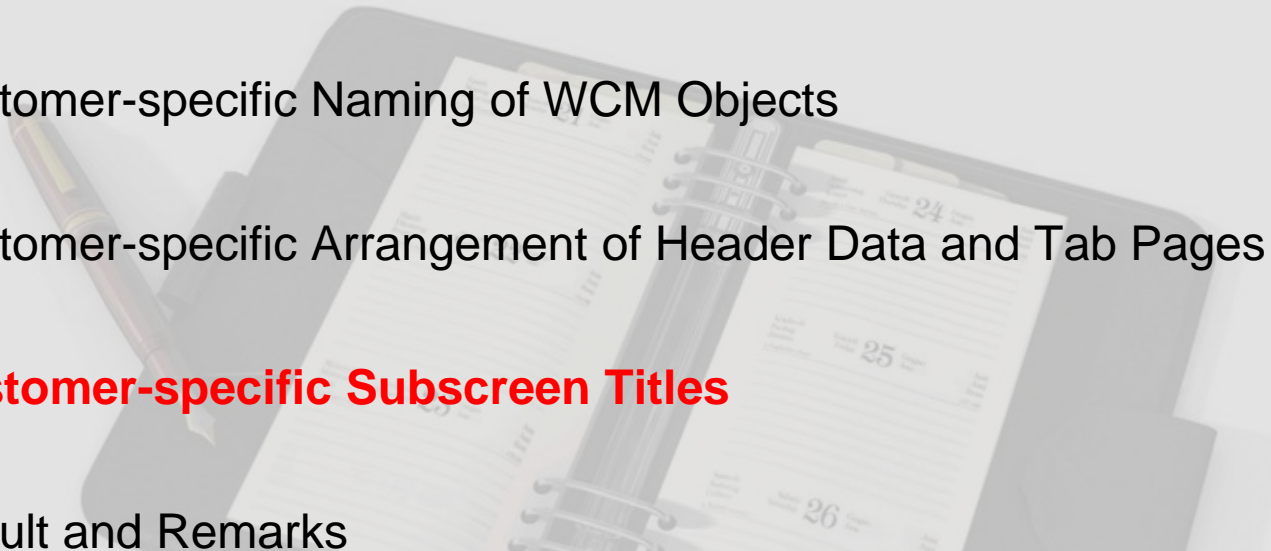


- After definition, a view profile needs to be assigned to the relevant WCM object(s):

The screenshot shows the SAP EhP5 Customizing interface. The left pane displays the 'Structure' tree with 'View Profiles' expanded, and 'Assign View Profiles' selected. The right pane shows the 'Change View "Assign View Profiles": Overview' screen with a table of assigned view profiles.

PIPI	Typ	Typ	View Profile	View Profile Text
1200	WA	1	\SAPDEMO_WP	Example Profile: Work Permit
1200	WA	2	\SAPDEMO_WP	Example Profile: Work Permit
1200	WD	0	\SAPDEMO_WCD	Example Profile: Work Clearance Document
1200	WD	T	\SAPDEMO_WCD	Example Profile: Work Clearance Document
1200	WW		WCM_DEFAULT	WCM Default Profile (DO NOT CHANGE !)

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4) What is still missing for our desired Layout?



- Let's have a look at the changed layout of our Operational V&B List:

Operational V&B List Edit Goto Extras System Help

Change Operational V&B List: Header

WPs - Level 1 Tech. Tools Preparation

Identification

WC Document 55903 Repair Compressed-Air Supply 002

General Data

Status CRTE

Valid from 27.03.2010 00:00:00 Valid to 25.04.2010 00:00:00

Asset Data Responsibilities Description

Reference Object

Functional loc. WPETP01 EXT: Compressed-Air Supply

Equipment

Train PRI Primary Deck

Location Data

MaintPlant 1200 Dresden

Location 1 Produktionsbereich 1200/01

Plant section

Linked Documents

☐ Current version

☒ All versions

Ty.	Document	DPT	Vs	Description
DRW	000001635	000	00	Exceptions - Process
DRW	T-D11	000	00	Technical documentation

→ Can we rename subscreen title to "Validity"?

→ Can we rename subscreen title to "Tag/Line Data"?

4) EhP5 Customizing: Individual Subscreen Titles



- Definition of individual subscreen titles (on plant level):

Change View "Define Individual Data Screen Attributes": Overview of Se

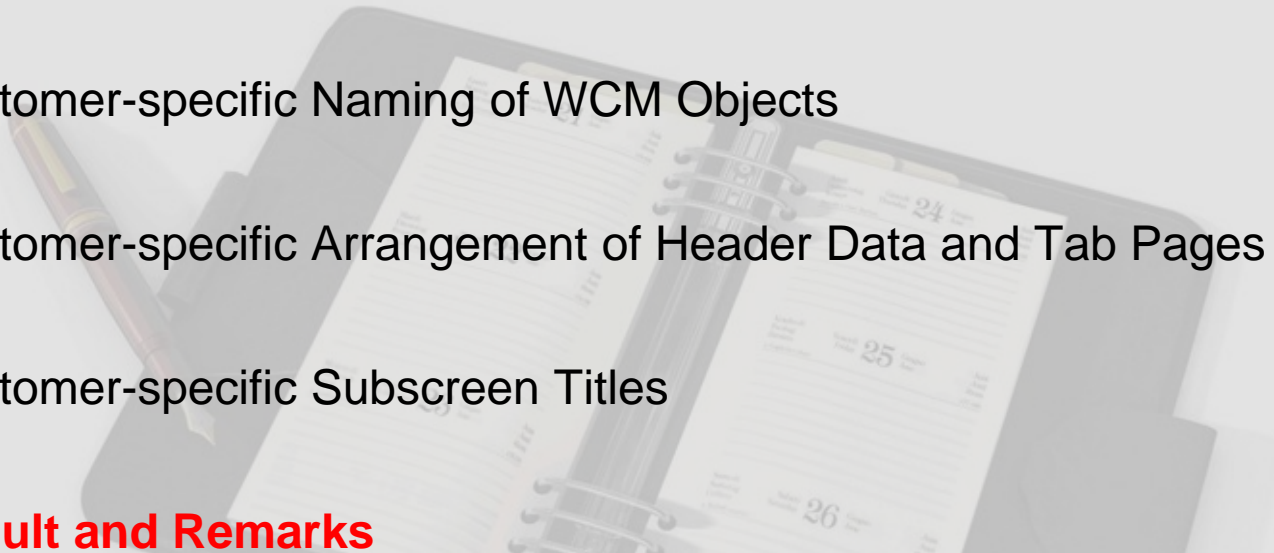
New Entries

Dialog Structure

- Define View Profile
 - Define Screen Areas of a View
 - Define Tab Pages of a Tab Page
 - Define Screen Areas
 - Define Individual Data Screen Attributes

PIPI	Subscreen No.	Screen Element Text	Heading
1200	10	General Data	Validity
1200	8320	Reference Object	Tag/Line Data
1200	8340	Responsibilities	Applicant
1200	8360	Long Text	Work Description
1200	8365	Requalification Text	Other Requirements
1200	8410	Work (1)	Work (Level 1)
1200	8411	Work (2)	Further Work (Level 1)
1200	8420	Requirements (1)	Requirements (Area Technician)
1200	8421	Requirements (2)	Requirements (Skilled Worker)
1200	8430	Order	Work Order

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- A background image of a spiral-bound notebook with a pen resting on it. The notebook is open, showing several pages with text and numbers. The pen is a fountain pen with a gold-colored nib and a dark body. The notebook is placed on a light-colored surface.

5) How does the Layout look finally?



- This is the final layout for the header screen of our Operational V&B List:

The screenshot displays the 'Change Operational V&B List: Header' window. It features a menu bar (Operational V&B List, Edit, Goto, Extras, System, Help) and a toolbar with various icons. The main content area is organized into several sections:

- Identification:** WC Document (55903), Repair Compressed-Air Supply, and a version number (002).
- Validity:** Status (CRTE), Valid from (27.03.2010 00:00:00), and Valid to (25.04.2010 00:00:00).
- Asset Data / Responsibilities / Description:** A tabbed interface with 'Description' selected.
- Tag/Line Data:** Functional loc. (WPETP01), Equipment, and Train (PRI Primary Deck).
- Location Data:** MaintPlant (1200 Dresden), Location (1 Produktionsbereich 1200/01), and Plant section.
- Linked Documents:** Radio buttons for 'Current version' and 'All versions' (selected). Below is a table of linked documents.

Ty.	Document	DPT	Vs	Description
DRW	000001635	000	00	Exceptions - Process
DRW	T-D11	000	00	Technical documentation

The bottom of the window includes a standard Windows-style toolbar with icons for file operations and a small status bar.

5) How does the Layout look finally?



- Let's have a look at tab page "Responsibilities" of our Operational V&B List:

Asset Data Responsibilities Description

Applicant

Planner Group 300 / 1200 Ext. Contractor
Work Center WP_MAINT / 1200 General maintenance

Partner

Funct	Partner	Name	A	Address
Area Technician	100	Jon Georg Sundvoll Ph.D.		Sundvoll, ,
Applicant	C5114682	Michael Lesk		Lesk, , 06227 5455882

Planning Data

	Start Date		End Date	
Basic Date	26.03.2010	00:00:00	30.03.2010	23:59:00
Scheduled	26.03.2010	08:00:00	30.03.2010	08:00:00
Actual Date		00:00:00		00:00:00

5) How does the Layout look finally?



- Let's have a look at tab page "Description" of our Operational V&B List:

Asset Data	Responsibilities	Description
Work Description Before taking of the filter bowl, the air supply must be stopped and the filter must be relieved.		
Tagging Text Close main air supply valves. Lock these valves with lock box lock & group tag.		
Untagging Text Unlock main air supply valves and remove tags. Reopen these valves.		

5) New Subscreens for Applications

Hot Work Permit
Number: _____
Location: _____
Date: _____
Nature of Job: _____
Name of Person Performing Hot Work: _____

- Note that the view profiles include new subscreens for Applications (required e.g. for Work Permit processes):

Asset Data Responsibilities Work Description Requirements

Work (Level 1)

- ☒ Open Sea
- ☐ Hazardous Substances
- ☐ Radioactive Material
- ☐ Explosives
- ☐ Other Activities

Further Work (Level 1)

- ☐ Hot Work A
- ☐ Hot Work B
- ☐ Entry Confined Space
- ☐ Pressure Testing
- ☐ Lifting Operations

Work Order

Order: 845546 Repair Compressed-Air Supply

Status: WCM CRTD MANC NMAT

OpAc	Operation short text	Status
0010	Operation 10	CRTD
0020	Operation 20	CRTD
0030	Operation 30	CRTD

Work Description

27.03.2010 07:57:05 Michael Lesk (C5114682) Phone 06227 54558 82
Before taking of the filter bowl, the air supply must be stopped and the filter must be relieved.

Customizable Work Types

Assigned Orders / Operations

5) New Subscreens for Applications

Hot Work Permit
Number: _____
Location: _____
Date: _____
Nature of Job: _____
Name of Person Performing Hot Work: _____

- Note that the view profiles include new subscreens for Applications (required e.g. for Work Permit processes):

The screenshot displays the 'Requirements' subscreen within a software application. The interface features a tabbed menu at the top with 'Asset Data', 'Responsibilities', 'Work Description', and 'Requirements'. The 'Requirements' tab is active, showing two columns of requirements with checkboxes. A red rectangular box highlights these two columns, and a red arrow points from the text 'Customizable Safety Requirements' to this box. Below the highlighted sections is an 'Other Requirements' section with a text area containing the text 'Please wear appropriate clothes.'



Requirements (Area Technician)	Requirements (Skilled Worker)
<input type="checkbox"/> Prevent Oil and Gas	<input type="checkbox"/> Depressurization
<input type="checkbox"/> Regular Inspection	<input type="checkbox"/> Draining/Emptying
<input type="checkbox"/> Gas Measurements	<input type="checkbox"/> CIng/HC Freeing
<input type="checkbox"/> Block/Cover	<input type="checkbox"/> Radioact. Radiation
<input type="checkbox"/> Barriers/Signs	<input checked="" type="checkbox"/> Job Safety Analysis
<input checked="" type="checkbox"/> HSE Datasheet	<input checked="" type="checkbox"/> Lockout/Tagout

Other Requirements

Please wear appropriate clothes.

Customizable Safety Requirements






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	WCM Objects	20	58	18 Mar 2010 10:29 lucio martino, Italy (ID 526) ➔
	Lockout/Tagout	16	52	22 Feb 2010 01:55 Michael Lesk, Germany (ID 98) ➔
	Mode-Dependent Tagging/Lineup	6	11	25 Mar 2010 06:32 augustine Spivak, United States (ID 256) ➔
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	Business Add-Ins (BAIs)	3	6	25 Feb 2010 14:18 Michael Lesk, Germany (ID 98) ➔

PM-WCM is a component of SAP ERP



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