

Flexible UI for WCM Objects

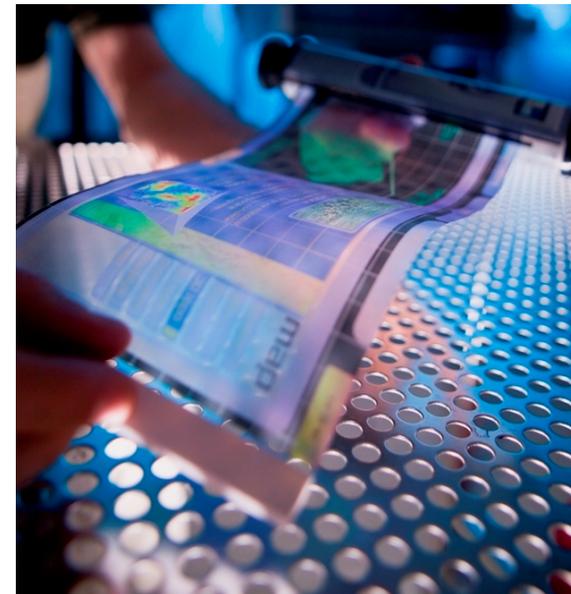
Release ERP 6.0, EhP5



Michael Lesk

WCM Focus Group, April 2010

Tampa, Florida

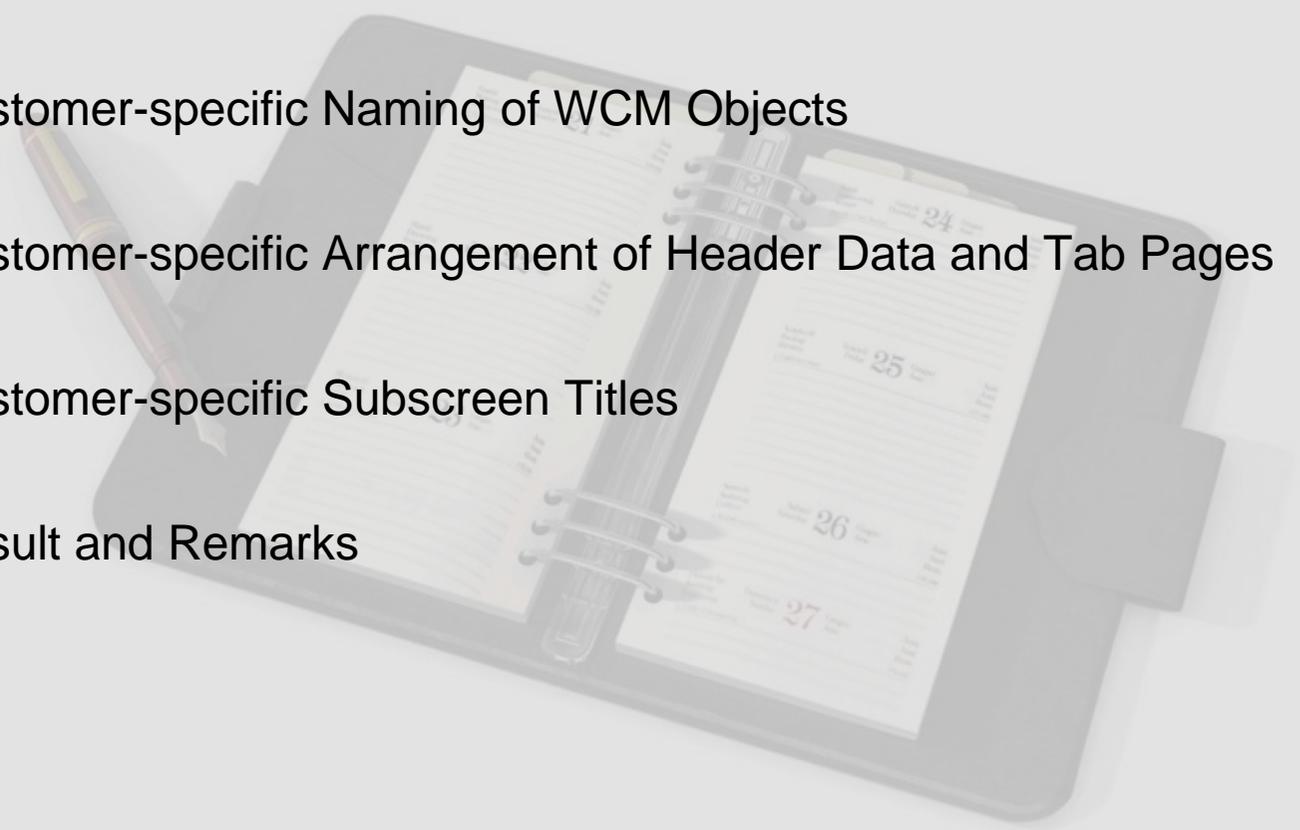


SAP-CENTRIC EAM
Inspiring Individuals - Empowering Enterprises



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:

Generic object services

Status processing and audit trail

Assignment of partners

Long text processing

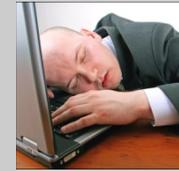
Assignment of documents

Assignment of permits

Use of catalog technique

Assignment of technical objects

1) Motivation



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

Operational WCD Edit Goto Extras System Help → Navigation to Additional Data

Change Operational WCD Header → WCM Object Name (Menus, Sub Menus, GUI Titles)

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

Overall Condtn AB mode "ramp-down"

Revision Phase

Reference Object → Subscreen Titles

Functional Loc. 80ETP01 Compressed-Air Supply → Arrangement of Header Data

Equipment

Train PRI Train PRI

Responsibilities Location Data Planning Data → Tab Pages

Planner Group 100 / 1200 Hr. Reuter

Work Center MECHANIK / 1200 Mechanical maintenance

AuthorizGroup

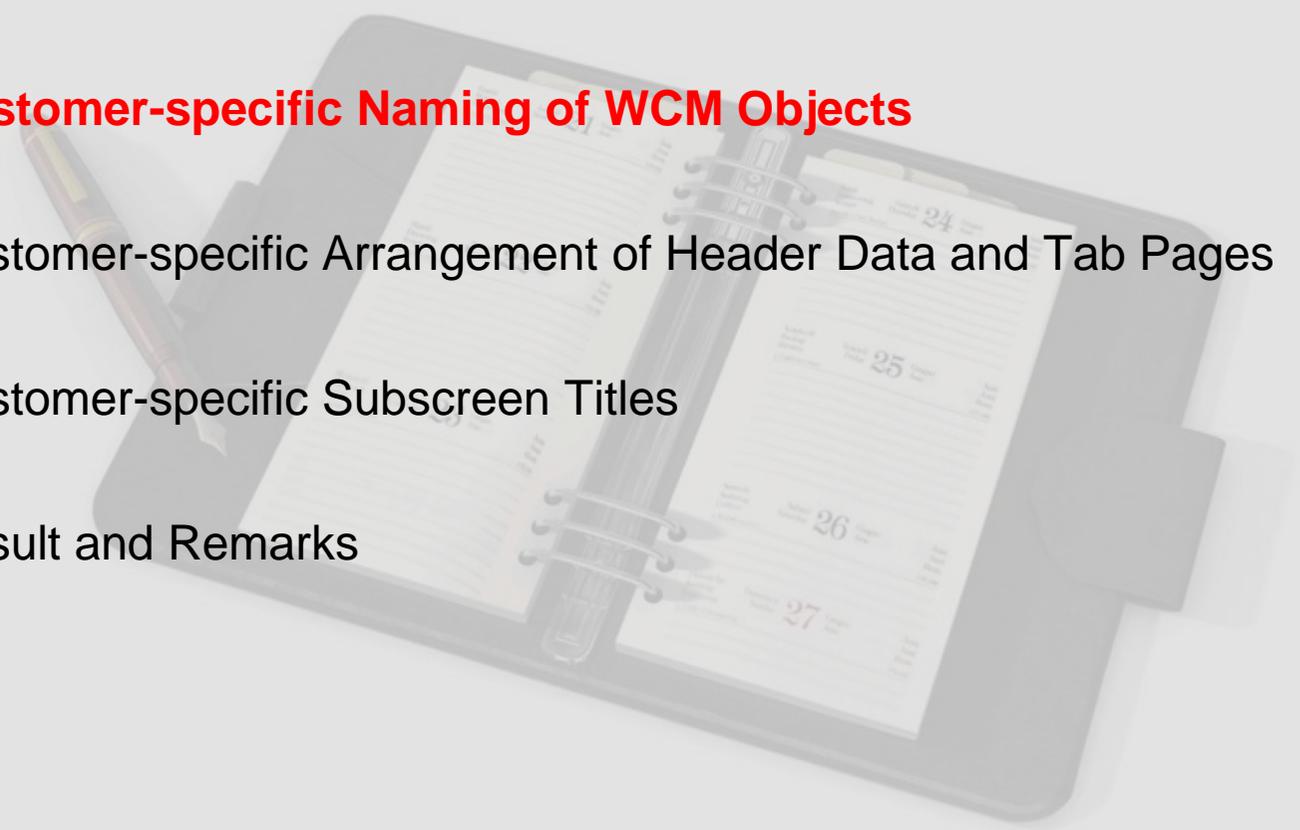


1) Target for EhP5



- 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

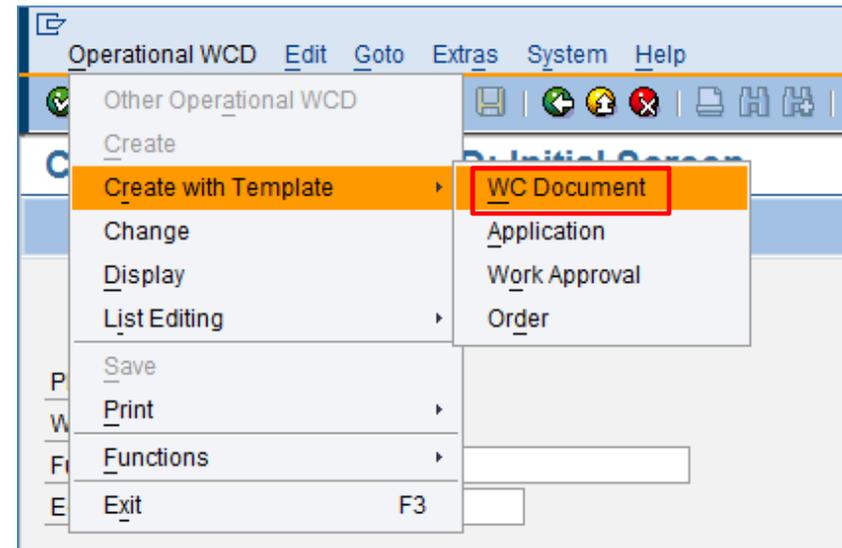
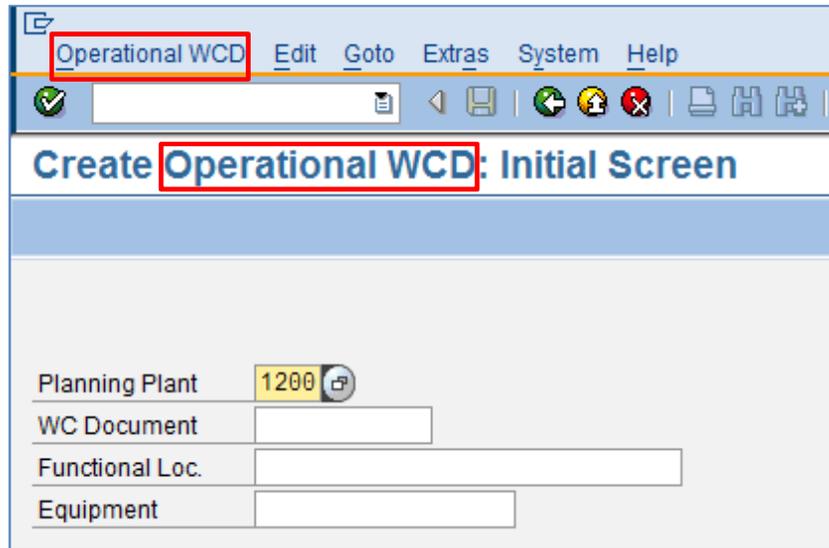
Agenda

- 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
- 

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:

The screenshot shows the SAP Search Help interface for WCM Documents. The title bar reads "Search Help - Display WC Documents". The interface includes a menu bar (Program, Edit, Goto, System, Help), a toolbar, and a main content area with several sections:

- Approval Status:** Three radio button options with corresponding status icons.
- Status of WC Document:** A list of checkboxes for document states, including Created, Prepared, Untaggable, Processing, Tagged, Untagged, Closed, Change mode, Test cycle, Conflict, Temporarily Untagged, Work permit printed, Object Deactivated, and Rejected.
- Navigation Tabs:** General Data (selected), Reference Object, Responsibilities, Approvals, Catalogs, Documents, Administration Data.
- Data Entry Fields:** Planning Plant (1200), Type of WCM Object (Operational WCD), WC Document (Operational WCD, WCD Template), Short Text, and 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. The left pane displays the 'Structure' tree with 'Define Descriptions' highlighted. The right pane shows the 'Change View "Define Descriptions": Overview' table.

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):

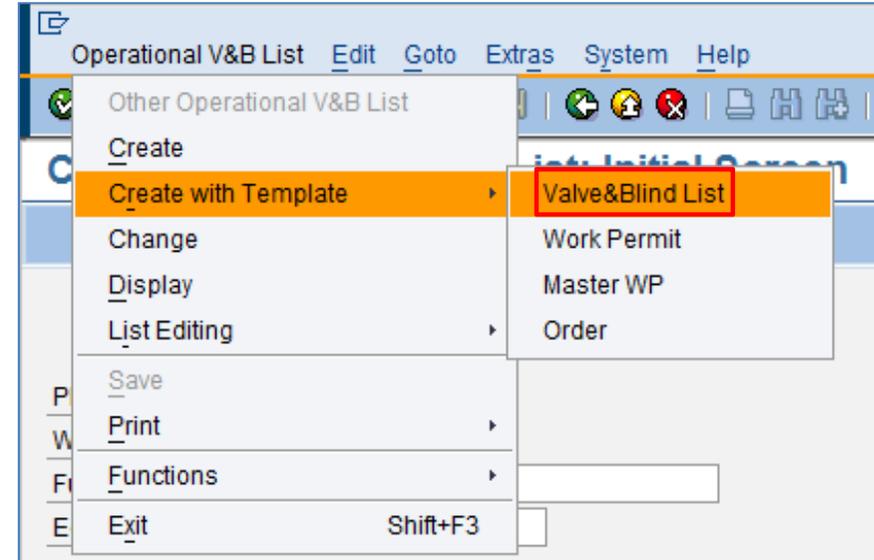
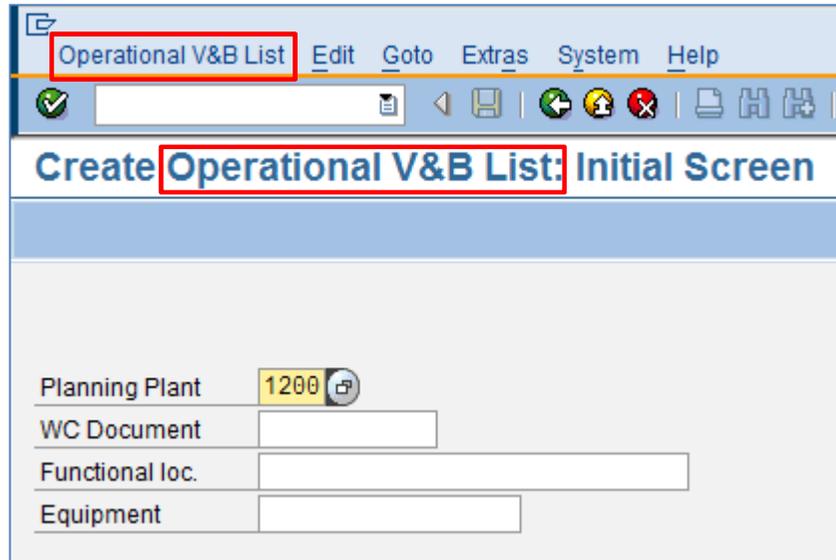
The screenshot shows the SAP EhP5 Customizing interface. The left pane displays the 'Structure' tree with 'Define Generic Descriptions' highlighted. The right pane shows the 'Change View "Define Generic Descriptions"' window with a table of generic descriptions.

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 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

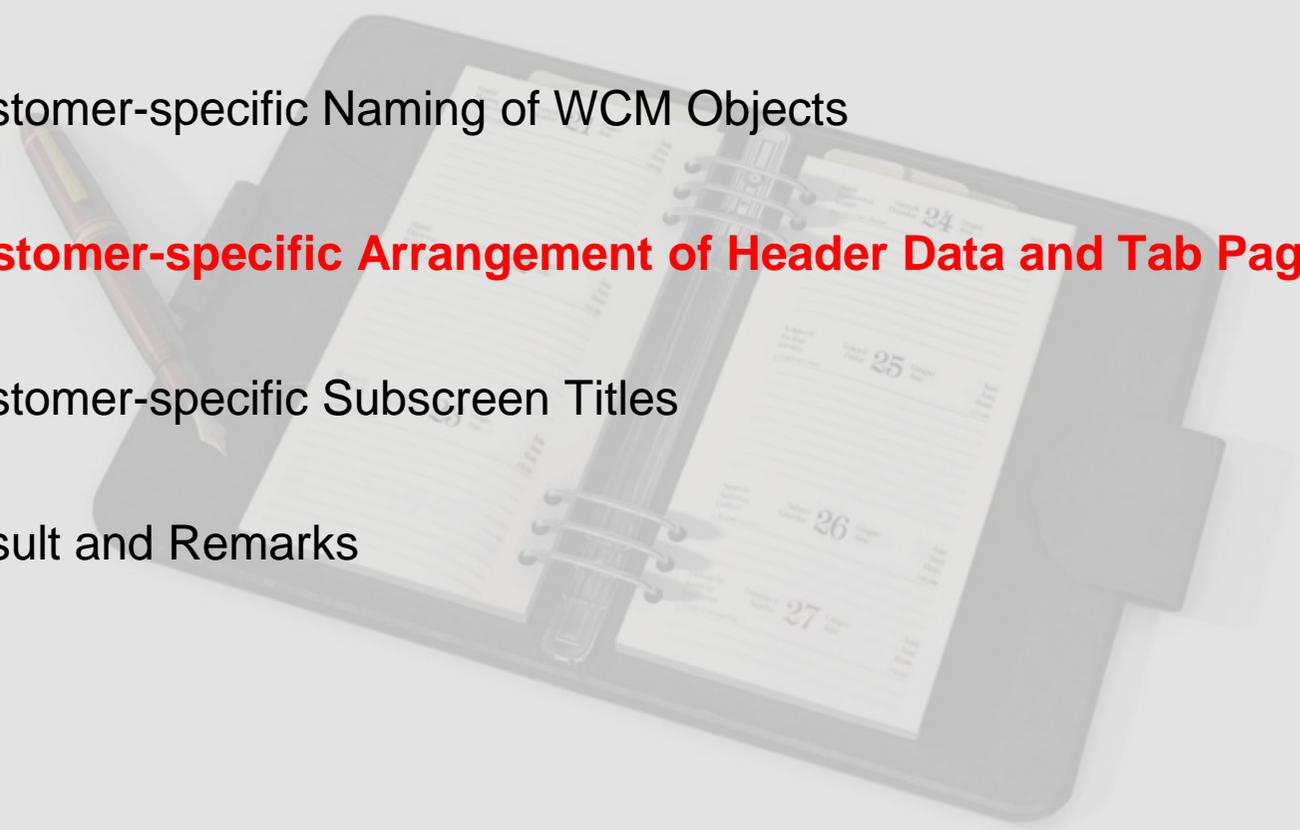
Type of WCM Object Operational V&B List

WC Document Operational V&B List V&B List Template

Short Text

Priority to

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
- 

3) Can we change the WCM Object Screen Layout?



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

Operational V&B List Edit Goto Extras System Help

Change Operational V&B List: Header

Identification

WC Document 55903 Repair Compressed-Air Supply 002

Validity

Status CRTE

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

Asset Data Responsibilities Description

Tag/Line Data

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

→ 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



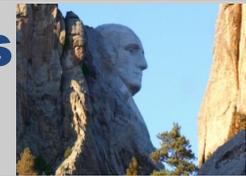
- 1st Level – Basic definition of the view profile (name and description):

The screenshot shows the SAP EhP5 Customizing interface. The left pane displays the 'Structure' tree with 'View Profiles' selected. The right pane shows the 'Change View "Define View Profile": Overview' dialog. A table within this dialog lists the defined view profiles.

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



3) EhP5 Customizing: Arrange Header Screens



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

Change View "Define Screen Areas of a View Profile": Overview

View Profile: \SAPDEMO_WCD
Profile Text: Example Profile: Work Clearance Document

Subscreen	Screen Element Text	Sequence Number	Ins. Blank Line	Border/Heading	Right Justify
8200	Identification	Position 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8310	General Data	Position 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6000	Tabstrip (1)	Position 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 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:

Change View "Define Tab Pages of a Tabstrip": Overview

View Profile: \SAPDEMO_WCD
Profile Text: Example Profile: Work Clearance Document
Subscreen No.: 6000
Screen Text: Tabstrip (1)

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:

Change View "Define Screen Areas of a Tab Page": Overview

View Profile: \SAPDEMO_WCD
Profile Text: Example Profile: Work Clearance Document
Subscreen No.: 6000
Tab Page: Asset 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
8200			
8310			
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	Not for Work Clearance Docs
8365	Requalification Text	074	
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

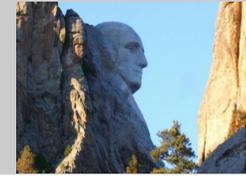
29 Entries found

uxai3q35

Only for Header Screens

For Header and Tab Screens

3) EhP5 Customizing: Assign View Profiles



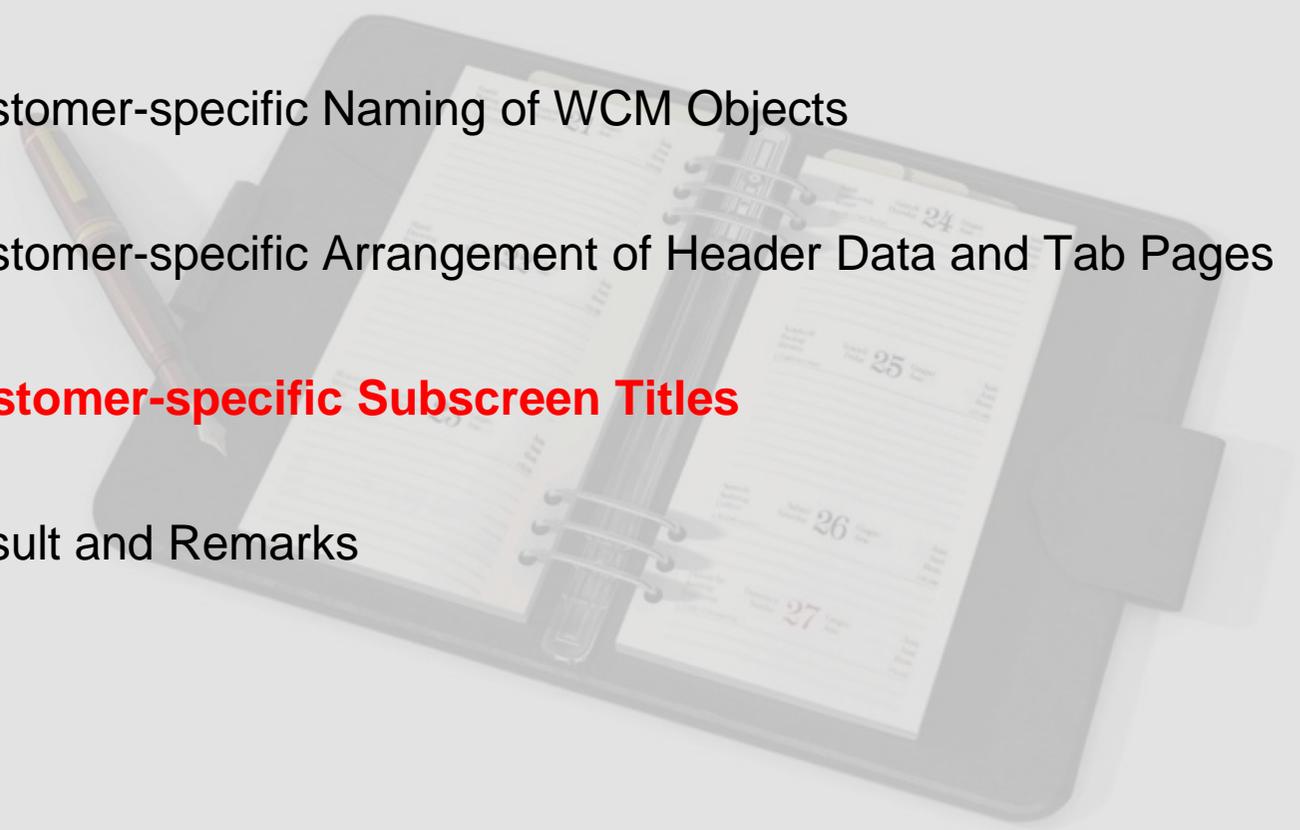
- After definition, a view profile needs to be assigned to the relevant WCM object(s):

The screenshot displays the SAP EhP5 interface. On the left, the 'Structure' pane shows a tree view where 'View Profiles' is expanded, and 'Assign View Profiles' is highlighted with a red box. A red arrow points from this box to the 'Assign View Profiles' table in the main window. The main window title is 'Change View "Assign View Profiles": Overview'. The table below shows the assigned 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 !)



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
- 

4) What is still missing for our desired Layout?



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

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

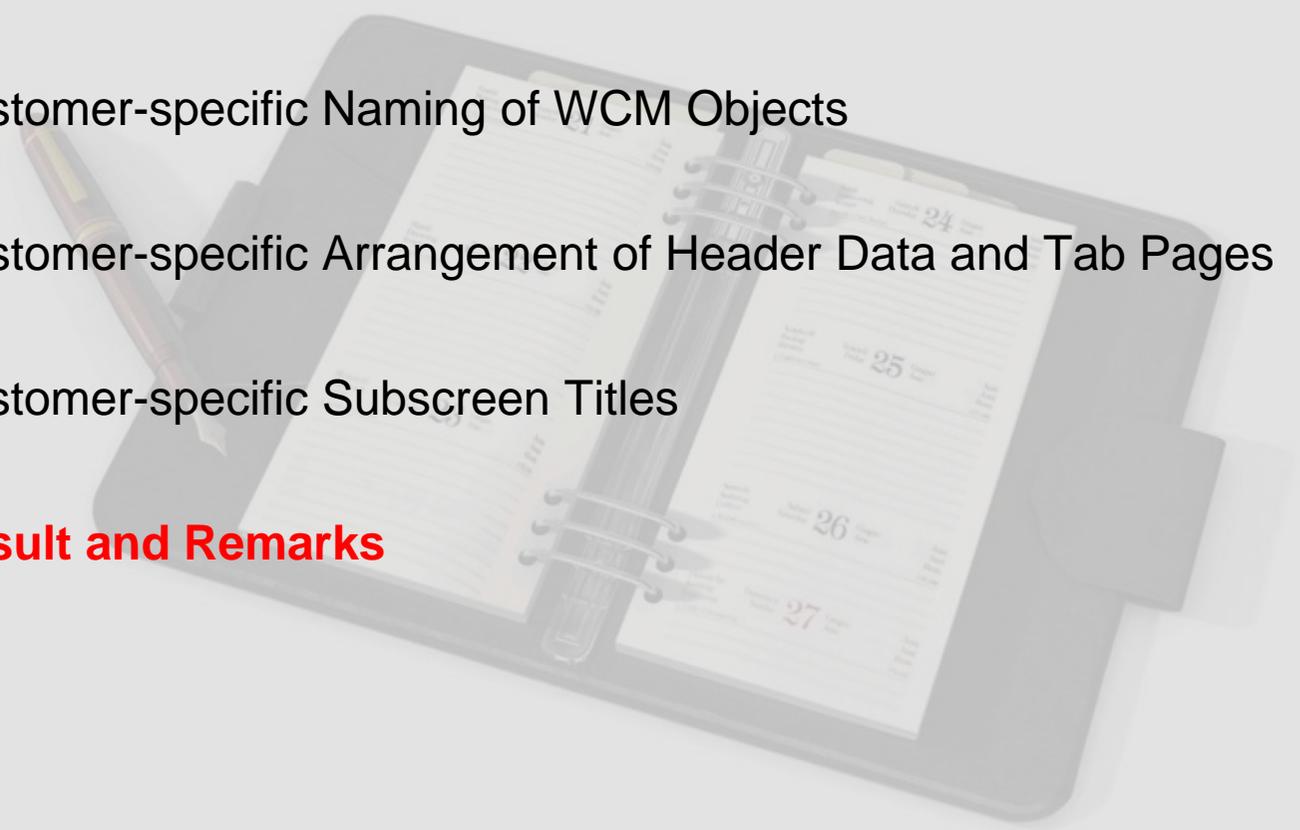
New Entries

Dialog Structure

- Define View Profile
 - Define Screen Areas of a View
 - Define Tab Pages of a T:
 - Define Screen Areas
 - Define Individual Data Screen Al

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

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**
- 

5) How does the Layout look finally?



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

The screenshot shows the 'Change Operational V&B List: Header' window. The title bar includes 'Operational V&B List' and menu options: Edit, Goto, Extras, System, Help. The window contains several sections:

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

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

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

Func	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):

The screenshot displays a software interface with four tabs: 'Asset Data', 'Responsibilities', 'Work Description', and 'Requirements'. The 'Work Description' tab is active. It contains three main sections:

- Work (Level 1):** A list of checkboxes for work types: Open Sea (checked), Hazardous Substances, Radioactive Material, Explosives, and Other Activities.
- Further Work (Level 1):** A list of checkboxes for further work types: Hot Work A, Hot Work B, Entry Confined Space, Pressure Testing, and Lifting Operations.
- Work Order:** A table with columns 'OpAc', 'Operation short text', and 'Status'. It shows three rows of operations (0010, 0020, 0030) with status 'CRTD'. A scroll bar is visible at the bottom of the table.
- Work Description:** A text area containing the following text: '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):

Asset Data Responsibilities Work Description Requirements

Requirements (Area Technician)

- Prevent Oil and Gas
- Regular Inspection
- Gas Measurements
- Block/Cover
- Barriers/Signs
- HSE Datasheet

Requirements (Skilled Worker)

- Depressurization
- Draining/Emptying
- CIng/HC Freeing
- Radioact. Radiation
- Job Safety Analysis
- Lockout/Tagout

Other Requirements

Please wear appropriate clothes.

Customizable Safety Requirements

Questions and Answers

WCM

Search

Company Product Services News Links

Consulting Training Forums FAQs Downloads

DANGER
Do Not Operate!

Deutsch
Contact
Home

International Forums

Board index [View unread posts](#) | [View new posts](#) | [View your posts](#)

[Mark forums read](#)

Forum	Topics	Posts	Last post
General Topics	7	19	30 Mar 2010 22:42 Janet Graham, Canada (ID 260) →
WCM-Relevant Orders	8	22	30 Mar 2010 13:48 Harshvardhan Bajad, India (ID 501) →
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) →
Mobile Processing	2	5	05 Sep 2009 13:03 Christoph Wobbe, Germany (ID 94) →
Business Add-Ins (BADIs)	3	6	25 Feb 2010 14:18 Michael Lesk, Germany (ID 98) →

PM-WCM is a component of SAP ERP

Restricted Area
Username: Michael Lesk

[Change User Profile](#)
[Change Password](#)
[Logout](#)

SALOON

- No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of WCM GmbH.
- The information contained in this publication may be changed by WCM GmbH without prior notice.
- SAP, R/3, mySAP, SAP NetWeaver and other mentioned SAP products and services as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world.
- All other mentioned product and service names as well as the associated logos are the trademarks of their respective companies.