

Project System
SAP Implementation at IESCO
Training Document
Change WBS BOM
PD Construction

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Change WBS BOM

1 Purpose

Document

Change in WBS BOM requires if the project cost estimate is revised and at the time of handing taking process. Any addition / deletion and/or change in quantity of material will be directly handled in operative projects instead of WBS BOM. (Main purpose is for material comparison only)

Prerequisites

Original WBS BOM should exist before changing it.

1.1 Process Steps (PD Construction)

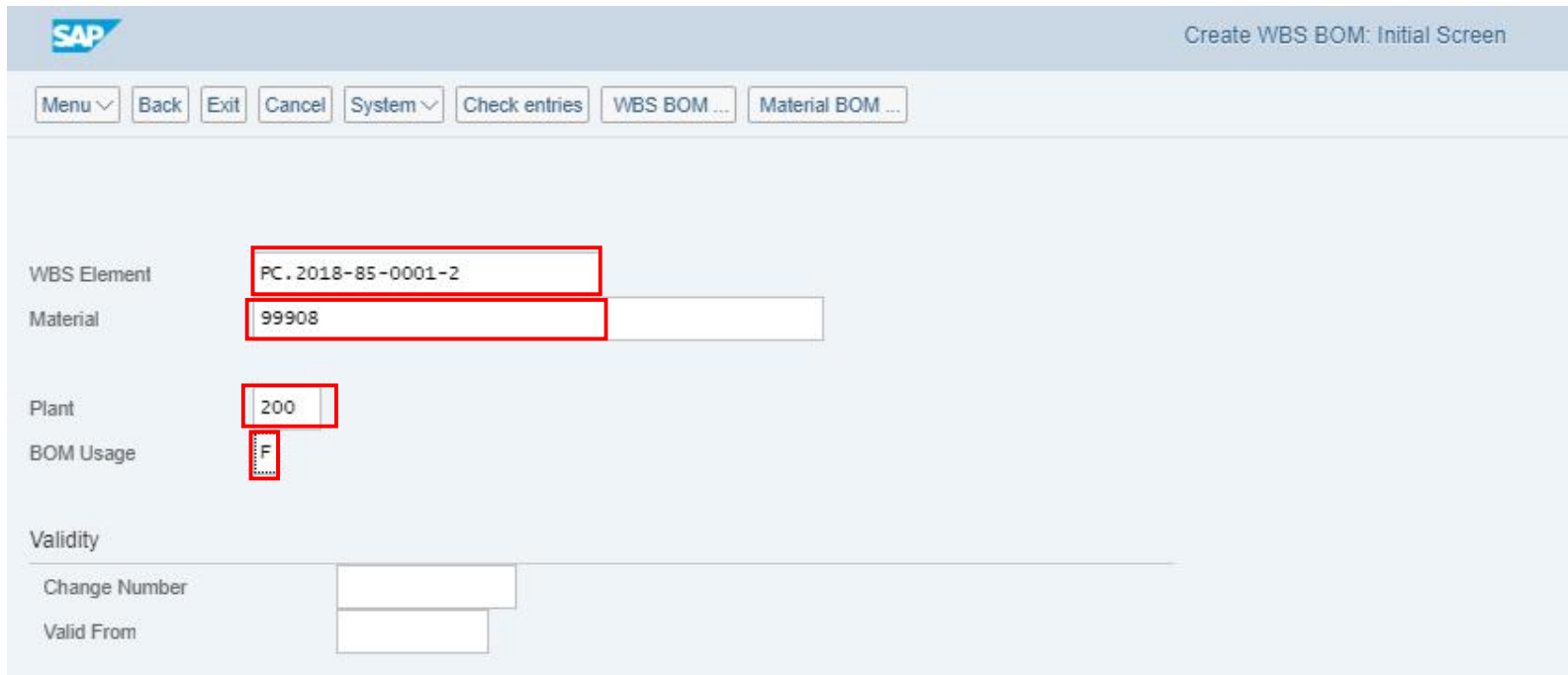
1.1.1 Copy WBS BOM

Use

Following steps are followed during copying WBS BOM from one WBS to another WBS.

Procedure

1. Open "Create WBS BOM" App, from Fiori Launchpad.



The screenshot shows the 'Create WBS BOM: Initial Screen' in SAP Fiori. The interface includes a top bar with the SAP logo and the title 'Create WBS BOM: Initial Screen'. Below the bar is a navigation area with buttons: 'Menu', 'Back', 'Exit', 'Cancel', 'System', 'Check entries', 'WBS BOM ...', and 'Material BOM ...'. The main area contains several input fields for data entry:

- WBS Element:** A text field containing 'PC . 2018-85-0001-2'.
- Material:** A text field containing '99908'.
- Plant:** A dropdown menu with '200' selected.
- BOM Usage:** A dropdown menu with 'F' selected.
- Validity:** A section with two input fields: 'Change Number' and 'Valid From'.

Red rectangular boxes are drawn around the 'WBS Element', 'Material', 'Plant', and 'BOM Usage' fields to highlight them.

2. Enter Following detail on the screen and press “Copy WBS BOM”

Field name	Description	User action and values	Comments
WBS Element		Example: PC.2018-85-0001-2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99908	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 200	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM

Copy WBS BOM

WBS Element

PE, 2018-85-0001-2

Material

99908

Plant

200

IESCO RS Rawalpindi

BOM Usage

F

WBS BOM

Effectivity

Change Number

Valid From

19.05.2018

☐ Renumber

✓

✗

3. Enter Following detail on the screen and press "Copy WBS BOM"

Field name	Description	User action and values	Comments
WBS Element		Example: PE.2018-85-0001-2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99908	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 200	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM

4. Press Enter and select the material items to copy, and press Copy button.


Create WBS BOM: Copy From

Menu ▾
Exit
Cancel
System ▾
Select All
Deselect All
Copy
Item
Header
Subitems

WBS Element

Material

Plant

BOM items

PE. 2018-85-0001-2

99908

200

Thatti Kelra - Material

PDC-DOP-H.T BOM HEADER MATERIAL

IESCO RS Rawalpindi

☐	Item	ICt	...	Component	Component descr...	Quantity	Un	OD	Asm	Sls	Valid From	Valid to	Item ID
☐	0010	L	M	10130	100 KVA Transfo...	2	EA		☐	☐	18.04.2018	31.12.9999	00000001
☐	0020	L	M	10129	50 KVA Transfor...	4	EA		☐	☐	18.04.2018	31.12.9999	00000002
☐	0030	L	M	10128	25 KVA Transfor...	5	EA		☐	☐	18.04.2018	31.12.9999	00000003

5. Data will be copied from one WBS BOM to another WBS BOM

Menu **Save** Back Exit Cancel System Select All Deselect All Item Header Subitems New Entries Delete item Header Details Validity

WBS Element PC . 2018-85-0001-2 Thatti Kelra - Material

Material 99908

PDC-DOP-H.T BOM HEADER MATERIAL

Plant 200 IESCO RS Rawalpindi

Material Document General

Item	ICt	Component	Component description	Function ID	Quantity	Un
0010	L	<u>10130</u>	100 KVA Transformer (NEW)		2	EA
0020	L	<u>10129</u>	50 KVA Transformer		4	EA
0030	L	<u>10128</u>	25 KVA Transformer		5	EA

6. Press Save Button.



Result:

WBS BOM has been copied.

1.1.2 Create Change Number

Use

Following steps are followed during creation of ECR Number for recording WBS BOM changings.

Procedure

1. Open "Create Change Master" App, From Fiori Launchpad.

The screenshot displays the 'Create Change Master: Initial Screen' in SAP. The interface includes a top navigation bar with the SAP logo and the title 'Create Change Master: Initial Screen'. Below the navigation bar, there is a menu bar with a 'Menu' dropdown, a search field, and buttons for 'Back', 'Exit', 'System', and 'Number Range'. The main content area is divided into several sections: 'Change Number' with an empty input field; 'Function' with four radio button options: 'Without Release Key' (selected), 'With Release Key', 'Lead. Chg. Mast.', and 'Change Package'; 'Control' with two sub-sections: 'Effectivity Type' with an empty input field, and 'Profile' with the value 'Z0000001' entered and highlighted by a red box; and 'Template' with a 'Change Number' input field.

2. Update the following required and optional fields:

Field name	Description	User action and values	Comments
Profile		Example: Z0000001	Profile identification that contains default values and pre settings for the creation of a change master record

3. Press Enter

SAP Create Change Master: Change Header

Menu ▾ Save Back Exit Cancel System ▾ Object Types **Objects** Alternative Dates Chg Header Long Text

Change number
Change Master Without Release Key

Description

Valid From

Authorization group

Reason for Change

Status Information

Change no. status

☐ Usage

☐ Deletion Flag

4. Update the following required and optional fields

Field name	Description	User action and values	Comments
Change Number Description		Example: PDC-Taxila - SDO Taxila 321 Reconcile Material for HO/TO and A90 process (This case will not be transferred to project)	Text that describes the change number.
Valid From		Example: 20.05.2018	Enter the start of the validity period of the change number. Changes will not be effective before this date
Reason For Change		Example: Handing / Taking Dispute	General information about the reason for change.
Status of change number		Example: 01 - Active	Active / Not active for Changes

5. Click Objects button

Objects

SAP Create Change Master: WBS BOM: Overview

Menu Save Back Exit Cancel System Change Header Object Types Alternative Dates

Change number
Change Master Without Release Key

WBS BOM

WBS element	Material	Plnt	BOM Usg	Description	LText
PC . 2018-85-0001-2	99908	200	F	Handing / Taking Dispute	

6. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBS Element		Example: PC.2018-85-0001-2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99908	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 200	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM
Description		Example: Handing / Taking Dispute	Description of the change that is made to a WBS BOM

7. Click SAVE button

Result:

Engineering Change number 500000000020has been generated, and it will be used to change WBS BOM s that change record can be available for comparison purpose.

1.1.3 Change WBS BOM

Use

Following steps are followed during Changing WBS BOM, it will only be used for comparison purpose.

Procedure

1. Open "Change WBS BOM" App, from Fiori Launchpad.

The screenshot displays the 'Change WBS BOM: Initial Screen' in SAP. The interface includes a top bar with the SAP logo and the title 'Change WBS BOM: Initial Screen'. Below the bar is a navigation area with buttons: Menu, Back, Exit, Cancel, System, Check entries, and Item. The main area contains several input fields for WBS Element, Material, Plant, BOM Usage, and Validity. Red boxes highlight the following values: 'PC. 2018-85-0001-2' for WBS Element, 'Thatti Kelra - Material' for Material, '99908' for Material, '200' for Plant, 'IESCO RS Rawalpindi' for Plant, 'F' for BOM Usage, 'WBS BOM' for BOM Usage, '500000000020' for Change Number, and '19.05.2018' for Valid From.

WBS Element	PC. 2018-85-0001-2	Thatti Kelra - Material
Material	99908	
Plant	200	IESCO RS Rawalpindi
BOM Usage	F	WBS BOM
Validity		
Change Number	500000000020	
Valid From	19.05.2018	

2. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBS Element		Example: PC.2018-85-0001-2	WBSE for which you want to create WBS BOM
Material		Example: 99908	Header material for which you want to create the WBS BOM
Plant		Example: 200	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used
Change Number		Example: 500000000020	Number used to uniquely identify a change master record.

3. Change WBS BOM Screen will appear

WBS Element

PC. 2018-85-0001-2

Thatti Kelra - Material

Material

99908

PDC-DOP-H.T BOM HEADER MATERIAL

Plant

200

IESCO RS Rawalpindi

Material

Document

General

Item	ICt	Component	Component description	Function ID	Quantity	Un
0010	L	<u>10130</u>	100 KVA Transformer (NEW)		2	EA
0020	L	<u>10129</u>	50 KVA Transformer		4	EA
0030	L	<u>10128</u>	25 KVA Transformer		5	EA
0040						

4. Adjust the quantity of material whose estimate is revised
5. Update the following required and optional fields:

Menu ▾
Save
Back
Exit
Cancel
System ▾
Select All
Deselect All
Item
Header
Subitems
New Entries
Delete item
Header Details
Validity

WBS Element

PC. 2018-85-0001-2

Thatti Kelra - Material

Material

99908

Plant

200 IESCO RS Rawalpindi

Material
Document
General

Item	ICt	Component	Component description	Function ID	Quantity	Un	OD	Asm	Sls	Valid From	Valid to	Change No.
0010	L	10130	100 KVA Transformer (NEW)		2	EA		☐	☐	19.05.2018	31.12.9999	
0020	L	10129	50 KVA Transformer		3	EA		☐	☐	20.05.2018	31.12.9999	500000000
0030	L	10128	25 KVA Transformer		5	EA		☐	☐	19.05.2018	31.12.9999	
0040								☐	☐			

Field name	Description	User action and values	Comments
Component for item 0020		Example: 10129	Material number of the components that you enter, as part of the WBS BOM.
Quantity for item 0020		Example: 4 to 3	Quantity of the BOM component

6. Press Enter or click Save Button

Result:

WBS BOM has been changed.

Note:

- Transfer this changed WBS BOM to the operative project (Refer to the training manual Detailed Planning Procurement – Transfer WBS BOM)

1.1.4 BOM Comparison

Use

Following steps are followed during the WBS BOM Comparison (if required).

Procedure

1. Open "BOM Comparison" App, From Fiori Launchpad.
2. Select go to choose Primary BOM Category and press Project option

The screenshot displays the SAP BOM Comparison: Initial Screen (One-Level). The interface includes a top navigation bar with the SAP logo and the title "BOM Comparison: Initial Screen (One-Level)". Below the navigation bar, there are several buttons: "Menu", "Back", "Exit", "Cancel", "System", "Summarized Comparison", "Differentiated Comparison", "Multilevel Comparison", and "Further Settings". The "Menu" button is highlighted with a red box, and its dropdown menu is open. The dropdown menu contains the following options: "BOM Comparison", "Edit", "Goto", "Extras", "System", "Help", "WebGUI File Browser", "Change number", "Revision Level", and "Required qty". The "Goto" option is highlighted with a red box, and its sub-menu is open. The sub-menu contains the following options: "Comparison Fields (Shift+F2)", "View (Shift+F4)", "Primary BOM Category", "Secondary BOM Category", "Primary BOM Item", "Secondary BOM Item", "Where-Used List for Primary Item", "Where-Used List for Secondary Item", and "Back (F3)". The "Primary BOM Category" option is highlighted with a red box, and its sub-menu is open. The sub-menu contains the following options: "Material", "Document", "Equipment", "Functional Location", "Production Order", "Sales Order", and "Project". The "Project" option is highlighted with a red box. The background of the screen shows the "Secondary BOM" section with various input fields for Material, Plant, Alternative, Date, and Quantity.

3. Select go to choose Secondary BOM Category and press Project option

SAP BOM Comparison: Initial Screen (One-Level)

Menu

Secondary BOM

Material

Plant

Alternative

Usage

Material

Document

Equipment

Functional Location

Production Order

Sales Order

Project

Comparison Fields (Shift+F2)

View (Shift+F4)

Primary BOM Category >

Secondary BOM Category >

Primary BOM Item

Secondary BOM Item

Where-Used List for Primary Item

Where-Used List for Secondary Item

Back (F3)

Change number

Revision Level

Required qty

4. Fields will be adjusted according to WBS BOM for comparison data.

Primary BOM		Secondary BOM	
WBS Element	PC.2018-85-0001-2	WBS Element	PC.2018-85-0001-2
Material	99908	Material	99908
Plant	200	Plant	200
Usage	F	Usage	F
Valid From	20.05.2018	Valid From	19.05.2018
Change number	500000000020	Change number	
Revision level		Revision level	
Required qty		Required qty	

5. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBSE Element (Primary BOM)		Example: PC.2018-85-0001-2	Enter the WBSE relevant to the primary BOM.
Material (Primary BOM)		Example: 99908	Enter the BOM header material number relevant to the primary BOM.
Plant		Example: 200	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used
Valid From(Primary BOM)		Example:	Enter the validity date relevant to the primary BOM.

		20.05.2018	
Change Number (Primary BOM)		Example: 5000000000020	Enter the change number relevant to the secondary BOM.
WBS Element (secondary BOM)		Example: PC.2018-85-0001-2	Enter the WBSE relevant to the secondary BOM.
Material (secondary BOM)		Example: 99908	Enter the BOM header material number relevant to the secondary BOM.
Plant		Example: 200	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used

6. Press Comparison button


BOM Comparison: Result (Differentiated)

Menu ▾
Back
Exit
Cancel
System ▾
Sort in Ascending Order
Sort in Descending Order
Set Filter
Spreadsheet...
Local File...
Send...
Change Layout...
Select Layout...
Save Layout...
-

Primary BOM-WBS BOM						Secondary BOM-WBS BOM					
WBS Element		PC.2018-85-0001-2				WBS Element		PC.2018-85-0001-2			
Material		99908				Material		99908			
Usage:		F				Usage:		F			
Plant:		200				Plant:		200			
Date:		20.05.2018				Date:		19.05.2018			
Change Number		5000000000020									

O...	Component number	Object description	Comp. Qty (CUn) 1	Unit	Lv		Comp. Qty (CUn) 2	Unit	Lv
	10130	100 KVA Transformer (NEW)	2	EA	1		2	EA	1
	10129	50 KVA Transformer	3	EA	1		4	EA	1
	10128	25 KVA Transformer	5	EA	1		5	EA	1

Result:

WBS BOM Comparison report is opened.