
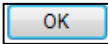
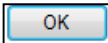
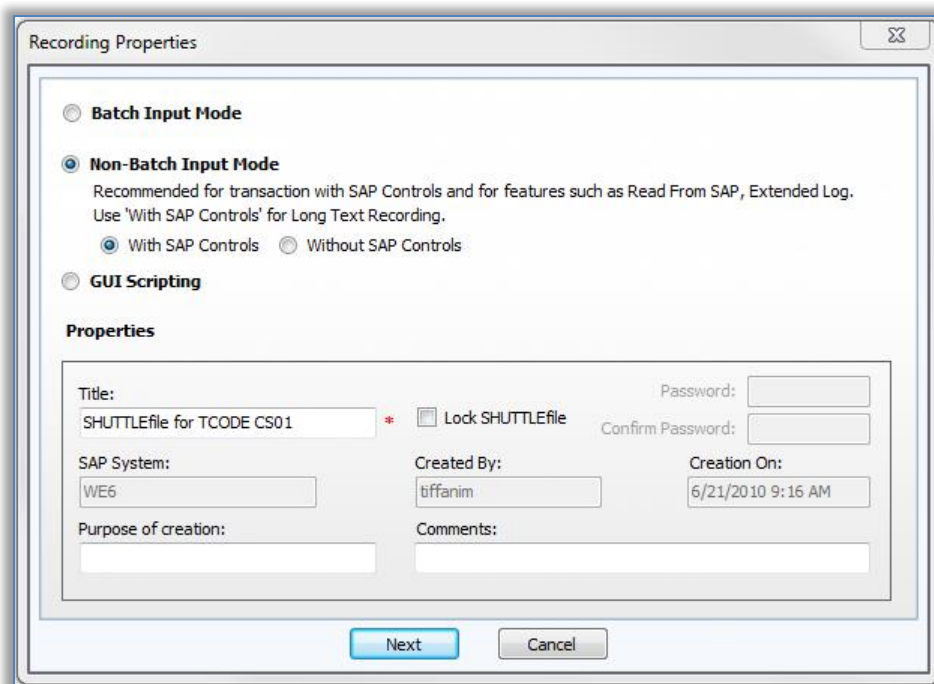


Step-by-Step: Create a Bill of Materials

Steps

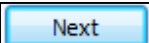
1. Open transaction SHUTTLE.
2. Click button: New
3. Enter transaction code CS01.
4. Click button: Go 
5. Choose a non-production SAP server in the system window.
6. Click button: OK 
7. Log in to SAP.
8. Click button: OK 



The image shows the 'Recording Properties' dialog box. It has three radio buttons: 'Batch Input Mode', 'Non-Batch Input Mode' (which is selected), and 'GUI Scripting'. Under 'Non-Batch Input Mode', there is a note: 'Recommended for transaction with SAP Controls and for features such as Read From SAP, Extended Log. Use 'With SAP Controls' for Long Text Recording.' Below this are two sub-radio buttons: 'With SAP Controls' (selected) and 'Without SAP Controls'. The 'Properties' section contains several fields: 'Title' (SHUTTLEfile for TCODE CS01), 'Password', 'Confirm Password', 'SAP System' (WE6), 'Created By' (tiffanim), 'Creation On' (6/21/2010 9:16 AM), 'Purpose of creation', and 'Comments'. There are 'Next' and 'Cancel' buttons at the bottom.

9. Enter the following information into the Recording Properties screen:

Field	Value	Description
Recording Mode	Non-Batch Input Mode	With SAP Controls

10. Click button: Next 
11. You will now be launched into the CS01 transaction.

Note: The following screens may vary depending on your SAP configuration. To make this process repeatable by transactionSHUTTLE, there may be a few modifications to the manual process to create a bill of materials. These differences will be identified throughout the rest of this document.

Create material BOM: Initial Screen

Material 600-001
Plant 1000
BOM Usage 1
Alternative BOM 2

Effectivity
Change Number
Valid From 06/07/2010
Revision Level

12. Enter the desired information into the Create Sales Order Initial screen:
13. Click: Enter

Create material BOM: General Item Overview

Material: 600-001 Test Material 600-001
 Plant: 1000 Werk Baden
 Alternative BOM: 2

Material | Document | General

Item	ICt	Component	Component description	Quantity	Un	As	Sl	Valid From	Valid to	Change No.
0010	L					<input type="checkbox"/>	<input type="checkbox"/>			
0020	L					<input type="checkbox"/>	<input type="checkbox"/>			
0030	L					<input type="checkbox"/>	<input type="checkbox"/>			
0040	L					<input type="checkbox"/>	<input type="checkbox"/>			
0050	L					<input type="checkbox"/>	<input type="checkbox"/>			
0060	L					<input type="checkbox"/>	<input type="checkbox"/>			
0070	L					<input type="checkbox"/>	<input type="checkbox"/>			
0080	L					<input type="checkbox"/>	<input type="checkbox"/>			
0090	L					<input type="checkbox"/>	<input type="checkbox"/>			
0100	L					<input type="checkbox"/>	<input type="checkbox"/>			
0110	L					<input type="checkbox"/>	<input type="checkbox"/>			
0120	L					<input type="checkbox"/>	<input type="checkbox"/>			
0130	L					<input type="checkbox"/>	<input type="checkbox"/>			
0140	L					<input type="checkbox"/>	<input type="checkbox"/>			
0150	L					<input type="checkbox"/>	<input type="checkbox"/>			

Position... Initial Entry 1 / 0

14. Enter the first line item in the SECOND line of the grid. Be sure to type over and enter the desired Item Number or it will default to 0020.

15. Press Enter.

The screenshot shows the SAP 'Create material BOM: Item: General data' screen. The interface includes a menu bar (Material BOM, Edit, Goto, Extras, Environment, Settings, System, Help) and a toolbar. The main content area is divided into several sections:

- Material Data:** Material: MATERIAL7000, Plant: 1000, Alternative BOM: 1.
- BOM item:** Item Number: 0010, Component: MATERIAL7001, Item Category: Stock item.
- Quantity Data:** Quantity: 1, Operation scrap in %: [blank], Net ID: [checkbox], Fixed quantity: [checkbox], Component scrap (%): [blank].
- General Data:** Co-product: [checkbox], Recurs. allowed: [checkbox], AllitemGroup: [checkbox], Recursive: [checkbox], CAD Indicator: [checkbox], ALE indicator: [checkbox], Discontin. data: [button].
- MRP Data:** Lead-time offset, Oper. LT offset, Distribution key, Phantom item, Explosion type, Special procurement.


The status bar at the bottom shows 'WE6 (1) 800', 'wss-sea-dmz1', and 'INS'.

16. Enter any desired line item detail information on the screen.
17. Press: Enter

18. Enter any desired line item detail information on the screen.
19. Press: Enter

Item	ICt	Component	Component description	Quantity	Un	As	Sls	Valid From	Valid to	Change No.
0010	L	600-004	Test Material 600-004	1	PC			06/07/2010	12/31/9999	

20. This shifts the new entry to line 1.

21. Click button: New Entries
22. Enter the new line item on Line 2 repeating steps 14-19.
23. Select Line 2 in the grid.
24. Click button: New Entries
25. Click button: Save (Ctrl+S) 
26. This will end the recording.
27. Click link: Create Mapping

Note: Auto Mapping will map the entire SHUTTLEfile to an Excel spreadsheet.

The screenshot shows the WinShuttle interface with a mapping table and an Excel spreadsheet. The mapping table lists various fields and their corresponding SAP field names and mapping types. The Excel spreadsheet below it shows the mapped data for the first few rows.

Sno.	Field Description	Field Name	Mapping Type	Value	Notes
1	Material Number	RC29H-MATNR	↔	A	
2	Plant	RC29H-WERKS	↔	B	
3	BOM Usage	RC29H-STLAN	↔	C	
4	Alternative BOM	RC29H-STLAL	↔	D	
5	BOM Item Number	RC29P-POSNR(01)	↔	E	
6	BOM component	RC29P-IDNRK(01)	↔	F	
7	Component quantity	RC29P-MENGE(01)	↔	G	
8	Component unit of measure	RC29P-MEINS(01)	↔	H	
9	BOM Item Number	RC29P-POSNR(01)	↔	E	
10	BOM component	RC29P-IDNRK(02)	↔	F	
11	Component quantity	RC29P-MENGE(02)	↔	G	
12	Component unit of measure	RC29P-MEINS(02)	↔	H	
13	Selection indicator	RC29P-AUSKZ(02)	↔	X	

	A	B	C	D	E	F	G	H	I	J	K
1	Material Number RC29H-MATNR	Plant RC29H-WERKS	BOM Usage RC29H-STLAN	Alternative BOM RC29H-STLAL	BOM Item Number RC29P-POSNR(01)	BOM component RC29P-IDNRK(02)	Component quantity RC29P-MENGE(02)	Component unit of measure RC29P-MEINS(02)			
2	Material7000	1000	3	1	0020	Material7002	1	PC			
3											
4											
5											
6											
7											
8											

28. Click tab: Basic
29. Map your data source file to the recording.
30. Click and drag from the source to the destination, in this case from the spreadsheet to the recording.

The screenshot displays the SAP SHUTTLE interface with two main panes. The top pane, titled 'Basic' and 'Expert', shows a 'Mapping' table with columns: Sno, Enable, Screen, Field Description, Field Name, Mapping Type, Value, and Notes. The bottom pane shows a data table with columns: Material Number, Plant, BOM Usage, Alternative BOM, BOM Item Number, BOM component, Component quantity, and Component unit of measure.

Sno	Enable	Screen	Field Description	Field Name	Mapping Type	Value	Notes
21	<input checked="" type="checkbox"/>	SAPLCSDI-Z1...	Table Control Material				
22	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00	
23	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-MEINS(02)	
24	<input checked="" type="checkbox"/>		BOM Item Number	RC29P-POSNR(01)		E	
25	<input checked="" type="checkbox"/>		BOM component	RC29P-IDNRK(02)		F	
26	<input checked="" type="checkbox"/>		Component quantity	RC29P-MENGE(02)		G	
27	<input checked="" type="checkbox"/>		Component unit of measure	RC29P-MEINS(02)		H	
28	<input checked="" type="checkbox"/>	SAPLCSDI-01...	Stücklistenposition: Allgemeine...				
29	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00	
30	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POSNR	
31	<input checked="" type="checkbox"/>	SAPLCSDI-01...	BOM Item: status / long text				
32	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00	
33	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POTX1	
34	<input checked="" type="checkbox"/>	SAPLCSDI-Z1...	Table Control Material				
35	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		=ERFA	
36	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POSNR(02)	
37	<input checked="" type="checkbox"/>		Selection indicator	RC29P-AUSKZ(02)		X	
38	<input checked="" type="checkbox"/>	SAPLCSDI-Z1...	Table Control Material				
39	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		=FCBU	
40	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29K-MATNR	

	A	B	C	D	E	F	G	H	I	J	K	
1	Material Number RC29N-MATNR	Plant RC29N-WERKS	BOM Usage RC29H-STLAN	Alternative BOM RC29H-STLAL	BOM Item Number RC29P-POSNR(01)	BOM component RC29P-IDNRK(02)	Component quantity RC29P-MENGE(02)	Component unit of measure RC29P-MEINS(02)				
2	Material7000	1000	3	1	0020	Material7002	1	PC				
3												
4												
5												
6												
7												
8												

31. Click tab: Expert
32. Fields are defined as follows:
33. Select the screen and rows that include the input of the 2nd line item detail all the way through to the selection of line 2 and the New Entries button.
34. Click button: Loop

Do While Properties ✖

Start Row: End Row:

Note: Rows are inclusive.

MS Excel ID Column:

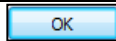
Header ID:

Line Item ID:

35. Enter the following information into the Do While Properties popup:

Field	Value	Description
MS Excel ID Column	A	Mapping will be shifted.
Header ID	H	
Line Item ID	D	

36. Click button: OK



Note: A loop indicator has been created around the screen and fields included in your loop.

21	<input checked="" type="checkbox"/>					
22	<input checked="" type="checkbox"/>	SAPLCSDI-21...	Table Control Material			
23	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00
24	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-MEINS(02)
25	<input checked="" type="checkbox"/>		BOM Item Number	RC29P-POSNR(01)		F
26	<input checked="" type="checkbox"/>		BOM component	RC29P-IDNRK(02)		G
27	<input checked="" type="checkbox"/>		Component quantity	RC29P-MENGE(02)		H
28	<input checked="" type="checkbox"/>		Component unit of measure	RC29P-MEINS(02)		I
29	<input checked="" type="checkbox"/>	SAPLCSDI-01...	Stücklistenposition: Allgemeine...			
30	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00
31	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POSNR
32	<input checked="" type="checkbox"/>	SAPLCSDI-01...	BOM item: status / long text			
33	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		/00
34	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POTX1
35	<input checked="" type="checkbox"/>	SAPLCSDI-21...	Table Control Material			
36	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE		=ERFA
37	<input checked="" type="checkbox"/>		Indicates cursor position on the screen	BDC_CURSOR		RC29P-POSNR(02)
38	<input checked="" type="checkbox"/>		Selection indicator	RC29P-AUSKZ(02)		X
39	<input checked="" type="checkbox"/>					

37. Click button: Save



38. Click link: Save

39. Click button: Back to return to the Run pane to test your file.

Note: One of your line item details will be on the header line as it is outside the loop, all others for each BOM will be on the detail lines.

	A	B	C	D	E	F	G	H	I
1	ID Column	Material Number RC29N-MATNR	Plant RC29N-WERKS	BOM Usage RC29N-STLAN	Alternative BOM RC29N-STLAL	BOM Item Number RC29P-POSNR(01)	BOM component RC29P-IDNRK(02)	Component quantity RC29P-MENGE(02)	Component unit of measure RC29P-MEINS(02)
2	H	Material7000	1000	3	1	0010	Material7001	1	PC
3	D					0020	Material7002	1	PC
4	D					0500	Material7003	1	PC