

BOM Interface important details

- 1) Table Name to review records received from Engineering Systems based on different criteria.
ZTPP_NA_BOM_INF

Use SE16n → to review details of the records received, when received, if in Error then message type and Message should be self-explanatory

If Message type is blank → Those records are new and yet to be processed should be processed on next batch job (Frequency different for different plants i.e 1 hour to 6 hours depend upon plant)

- 2) Program name for Error Reprocessing / Program for BOM load.
ZRPP_NA_BOM_ERROR_REPORT

There is no need to run this program Manually, except we want to execute for specific case.

A batch job for each plant runs at specific frequency as per below details

Plant	Detail	Freq	Times										Job Name
US02	All	Every 2 hrs	2:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	22:00		S_PP_NA_O_US02_MRP_D_NETCH S_PP_NA_O_US02_MRP_D_NETCH_1 to 4
US03	Complex ETO	Every 6 hrs	3:00	9:00	15:00	21:00							S_PP_NA_O_US03_MRP_D_NETCH
US03	Simple ETO	Every 3 hrs	1:00	4:00	7:00	10:00	13:00	16:00	19:00	22:00			S_PP_NA_O_US03_MRP_D_NETCH_LPNL
US04	All	Every 4 hrs	1:30	5:30	9:30	13:30	17:30	21:30					S_PP_NA_O_US04_MRP_D_NETCH
US13	All	Every 2 hrs	1:30	5:30	7:30	9:30	11:30	13:30	15:30	17:30	19:30	21:30	S_PP_NA_O_SD_US13_MRP_D_NETCH S_PP_NA_O_SD_US13_MRP_D_NETCH1 to 4
US37	All	Every 1 hour	7:00	TO	18:00	21:00	2:00						S_PP_NA_O_US37_MRP_D_NETCH S_PP_NA_O_US37_MRP_D_NETCH_2 to 14 (separate jobs 2 to 14)

Each job contains 5 steps (Except Burlington- US02 plant having extra step of Phantom item allocation to correct operation)

- **Only for Complex ETO** → 1st step for BOM load to Network (For Simple ETO this step is not applicable)
- 2nd Step MRP initialization
- 3rd Step MRP run for Materials having Production scheduler as Simple ETO or Complex ETO.
- 4th Step Plan order to Production order conversion only for Material with Prod Scheduler as Simple or Complex ETO.
- 5th Step BOM load to Complex or Simple ETO Production orders.
- Only for US02 plant → 6th Step Phantom Exploded item allocation to correct operation (Detail in different section of this document)

No.	Program name/command	Prog. type	Spool list	Parameters	User
1	ZRPP_NA_BOM_ERROR_REPORT	ABAP	263243	RS_PR_NW_US02	BATCHUSER_NA
2	RMMDVM20	ABAP	263264	US02_INIT	BATCHUSER_NA
3	RMMP000	ABAP	263271	Z_BES_B2S_US02	BATCHUSER_NA
4	PPIO_ENTRY	ABAP	263272	Z_BES_B2S_US02	BATCHUSER_NA
5	ZRPP_NA_BOM_ERROR_REPORT	ABAP	263902	RS_PR_PRD_US02	BATCHUSER_NA
6	ZRPP_NA_PHANTOM_ITEM_OPERATION	ABAP	263915	US02_INF_PHNTM	BATCHUSER_NA

- 3) Error reporting T code → ZPP006 to report error based on various parameter from Table ZTPP_NA_BOM_INF (This T code is alternate to SE16n Table view – would prefer to go to SE16n rather using this t code)
- 4) Z table Clean up program for IT to clean certain records which may not be necessary to keep in Z table due to wrong data transfer by source system or as per request from Business

Program : ZRPP_NA_BOM_ZTAB_CLNUP

- 5) Phantom / All BOM item allocation to operation based on Supply Area.

T code → ZPP910

Program → ZRPP_NA_PHANTOM_ITEM_OPERATION

Table for Interface Production order → ZTPP_PHANTOM

Purpose of this program → Material will be allocated to Operation containing Work Center having same supply area as Material Default Supply Area.

Two options used here to run this T code.

1) External Data (Select radio button)

Input Plant and Production orders (both are mandatory) with two possible options to process

- Option 1 # Select Radion button for Phantom item components – to process only Phantom exploded item reallocation to Operation based on Supply area.
- Option 2# Select radio button for All item – to process all the items in production order.

Report Selection

Plant US02

Production Order | to

Selection group 1

☐ Interface Records

☒ External Data

Selection group 2





☒ Phantom Item Components

☐ All Items

2) Interface Data (Select radio button for Interface records) → only BOM interface Production orders processing.

Input Plant and based on Plant any records which is pending for processing from table ZTPP_PHANTOM will be selected based on followin two options

- Option 1 # Select Radion button for Phantom item components – to process only Phantom exploded item reallocation to Operation based on Supply area.
- Option 2# Select radio button for All item – to process all the items in production order.

Report Selection			
Plant	US02		
Production Order		to	
<hr/>			
Message Type		to	
Message Number		to	
Insert Date		to	
<hr/>			
Selection group 1			
<input checked="" type="radio"/> Interface Records <input type="radio"/> External Data			
<hr/>			
Selection group 2			
<input checked="" type="radio"/> Phantom Item Components <input type="radio"/> All Items			
<hr/>			
Processing records selection			
<input type="checkbox"/> Being Processed <input type="checkbox"/> Already Processed			

6) Clean up program for Phantom / Material reassignment based on supply area.


T code → ZPP911

Program : ZRPP_NA_PHANT_ZTAB_CLNUP






Purpose to Clean table ZTPP_PHANTOM for already processed production order.

Every night a job will run to clean all Processed production order (This is yet not started will be started once some bug are fixed)

Report to clean up phantom prod orders Z-table



Clean-up options


Plant	<input type="text" value="1"/>	to	<input type="text" value=""/>	
Production Order	<input type="text" value=""/>	to	<input type="text" value=""/>	
Message Type	<input type="text" value=""/>	to	<input type="text" value=""/>	
Message Number	<input type="text" value=""/>	to	<input type="text" value=""/>	
Insert Date	<input type="text" value=""/>	to	<input type="text" value=""/>	

Cleanup of entire BOM from SAP to allow Source system to resend BOM to load.

1. There are two options here

1.1. Option -1 : Mark all the Production order linked to WBS with DLFL (Deletion flag)





1.1.1. Get all the Production order for requested WBS element (AUTO-<Sales order>-<Sales line>*), By putting WBS ending with * in t code - COOIS.

List PPIOH000 Order Headers 

Layout AJ NOGALES PRODUCTION

☒ Production Orders

☐ Planned Orders

Sales Order	<input type="text" value=""/>	to	<input type="text" value=""/>	
Sales Order Item	<input type="text" value=""/>	to	<input type="text" value=""/>	
WBS Element	<input type="text" value="-150125786-0010*"/>	to	<input type="text" value=""/>	
Sequence number	<input type="text" value="auto-150125786-0010*"/>		<input type="text" value=""/>	

1.1.2. User T code SA38 and run program : PPARCHP1 , enter production orders, remove default 90 days from Delivery date over run field, select Test run initially and execute.

If any Prod order having cost it will give error message, analyze and communicate to Business team (here we can use option mentioned in next section 1.2 to remove BOM instead of putting Deletion flag on Prod order)

Production Order			
Order	563000058725	to	
Order Type		to	
Constraints			
Plant		to	
MRP controller		to	
Prodn Supervisor		to	
Status Selection Profile			
Basic Start Date		to	
Actual deliv. date		to	
Delivery Date Overrun		Days	
Maximum number of orders	99,999		
Actions			
<input checked="" type="checkbox"/>	Set Deletion Flag		
<input type="checkbox"/>	Set Deletion Indicator		
Processing Options			
<input checked="" type="radio"/>	Test Mode		
<input type="radio"/>	Production Mode		
Detail Log	X Complete		
Log Output	List		

1.1.3.If no Error run with Production mode and it will set DLFL on to production orders.

1.2. Option 2: Inplace of option 1 we can use this option where we can Clean BOM from Generic production order → Magic tool instruction for Production order BOM Cleanup



Generic production
order reread master c

2. Clean Network Components → LSMW instruction for Network Delete

- Before deleting network component make sure network components are not having Final issue checked, if its final issued it is advisable not to delete and clarify with Business if they really want to delete even its consumed.

- Other must check is to see if there is a Project stock of the items in network in T code MBBS, If stock is there it is advisable to not delete network components as it will result in Finance closing inventory issue.

Here is instruction to use LSMW if want to do mass cleanup.

Else if only one WBS / Project network materials can be deleted from CJ20n.



LSMW for Network
component Deletion.

3. Clean records from ZTPP_NA_BOM_INF through Program - ZRPP_NA_BOM_ZTAB_CLNUP
Remove records based on Sales order and sale line (Be careful not to remove only based on Sales order else it will remove other SO lines also from Z table which is not intended)
Make sure while cleaning Z table that all the records which are planning to delete are having Processing flag "Blank" , if its "X" or "P" it is advised to wait.