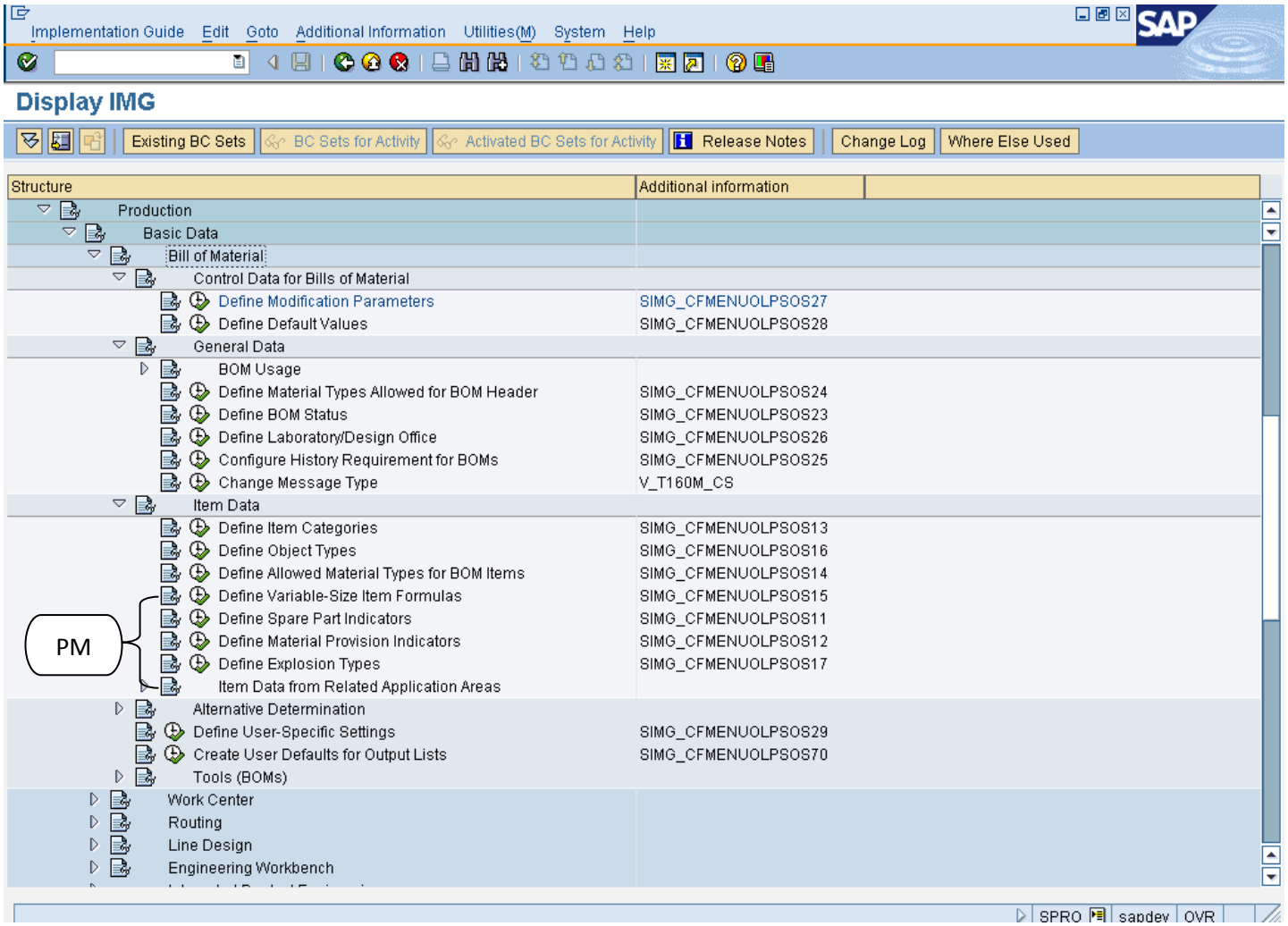
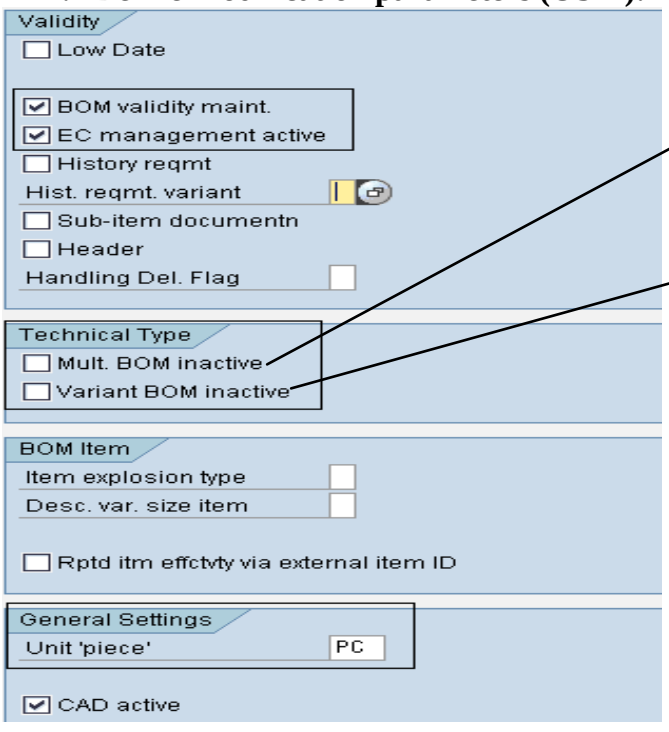
BOM CONFIGURATION SETTINGS:



Path: SPRO - SAP IMG – Production – Basic data – Bill of material

Control data for bill of material:

1. **Define Modification parameters (OS27):**

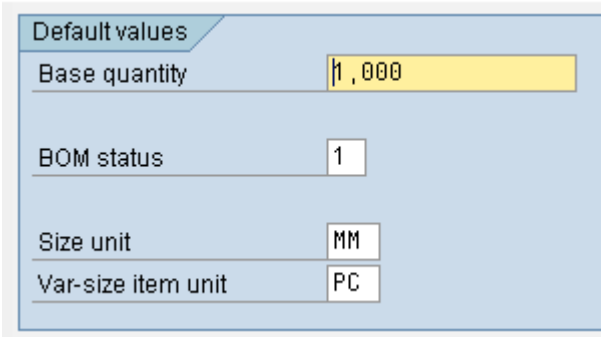


The marked default changes should be made as it is. Here,
Multiple BOM inactive meant for, if you activate this field you will not be eligible to create a multiple BOM for a single product.

Variant BOM inactive meant for, if you activate this field you cannot create a variant BOMs using a particular component.

Multiple BOM is related to final product where as variant BOM is related to a component or an item of a product.

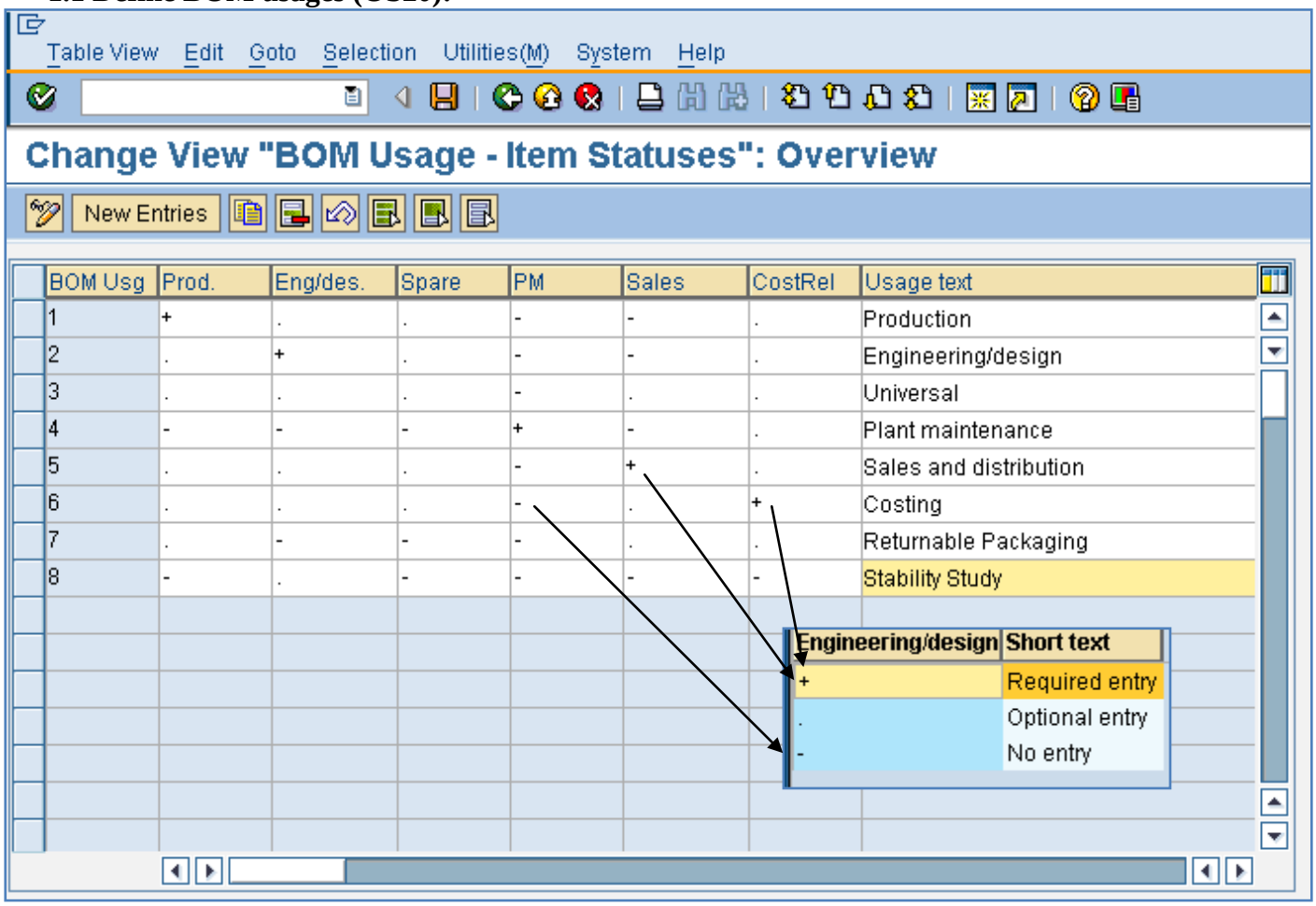
2. **Define default values (OS28):**



General Data:

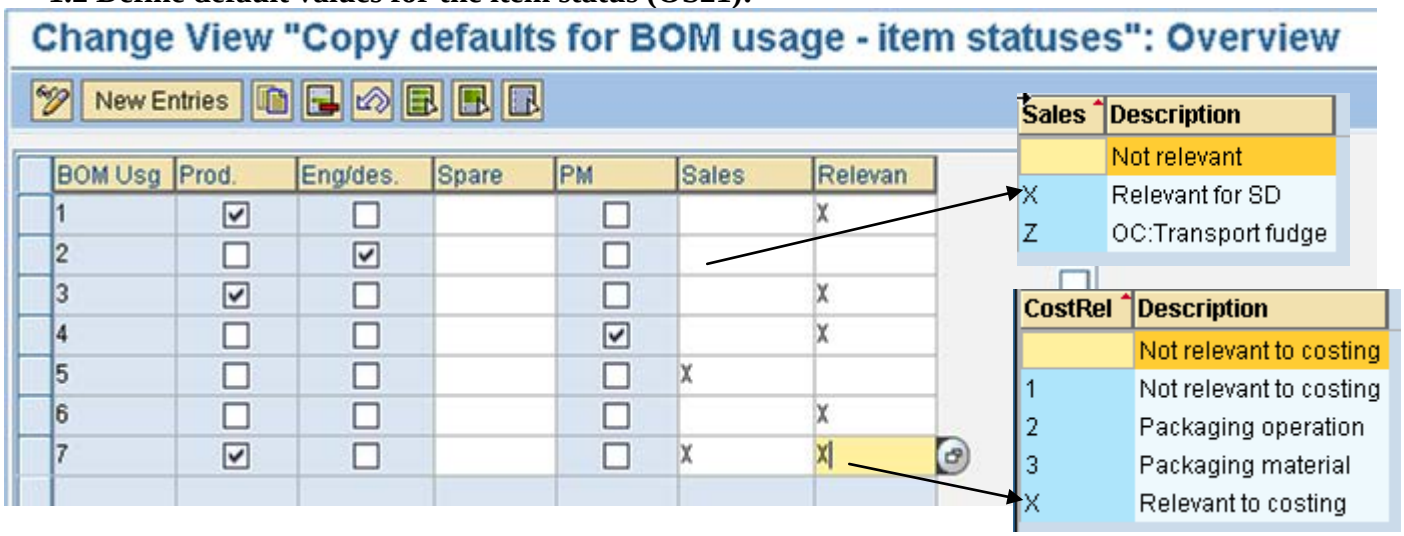
1. **BOM usage:**

1.1 Define BOM usages (OS20):



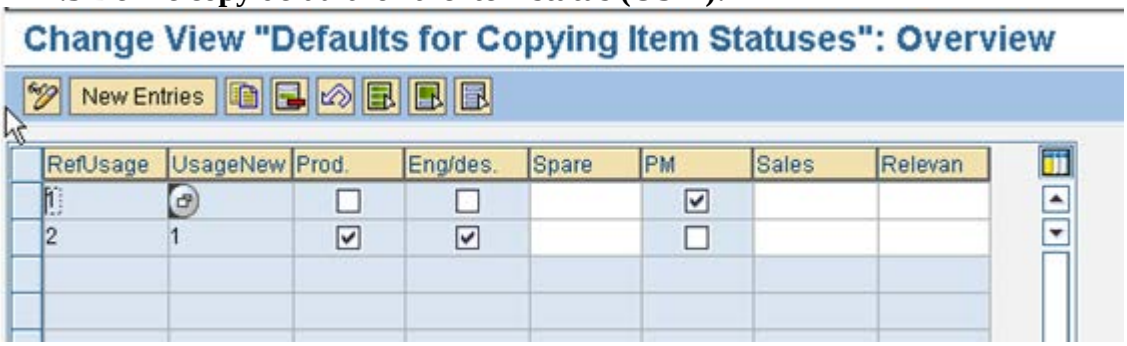
Note: if you assign '+' for any activity and later if you want to change to '-', you can change it before you create a BOM with that particular type BOM usage number only. In such cases you can go for an optional entry i.e. '.'

1.2 Define default values for the item status (OS21):



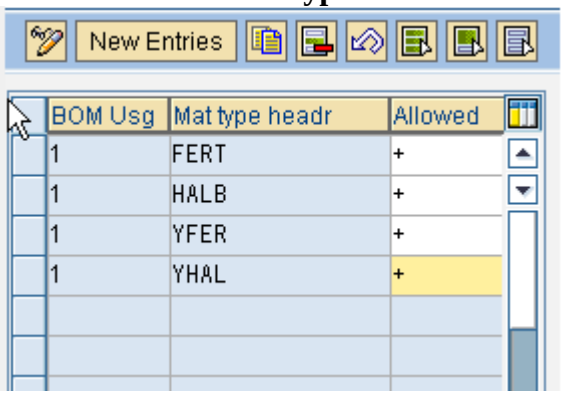
Here if you have to activate any of the field, first you need to give a require entry or an optional entry in OS20. Otherwise system will not allow you to activate for those fields.

1.3 Define copy default for the item status (OS22):



This particular setting will be used rarely when you copy a BOM from the exiting BOM with a different usage then this particular configuration will fill the default data for a tab item status in BOM front end.

2. Define material types allowed for BOM header (OS24):



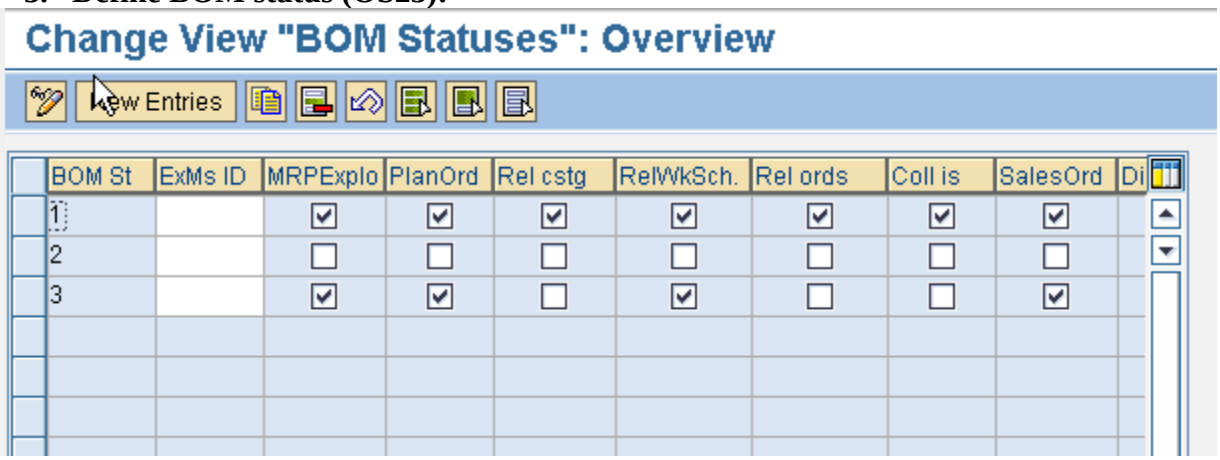
Here should define material types which are allowing as a header material.

'+ 'indicates allowed.

If all fields in a single row filled with '*' then the BOM header will allow all material types as a header material. Usually final products (finished & semi finished) will be assign as a BOM header material.

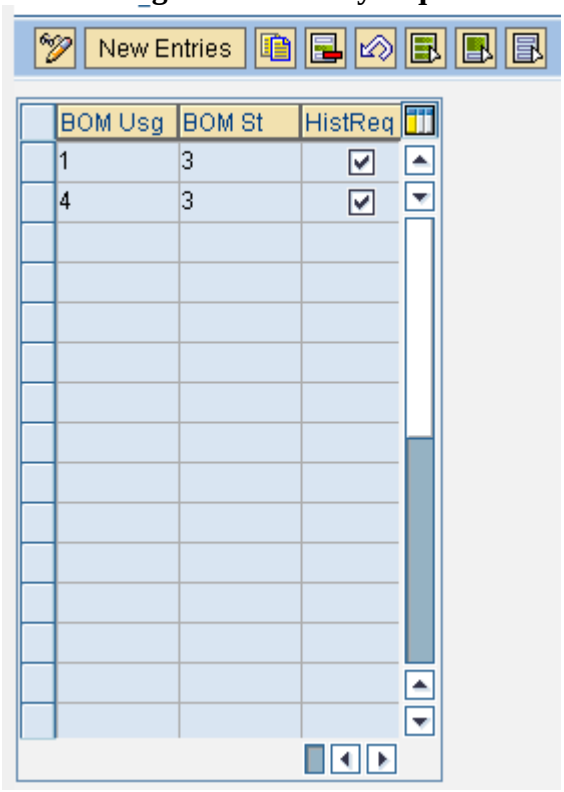
(Possible error: if you have not specified the BOM header material type then you will be stopped by showing an error 'the material type not defined in BOM header level'.)

3. Define BOM status (OS23):



Generally usage of the BOM is '1' which allows BOM while MRP explosion, planned order, rework order scheduling, release orders, sales orders and for collective issues.

4. Configuration history requirement for BOM (OS25):



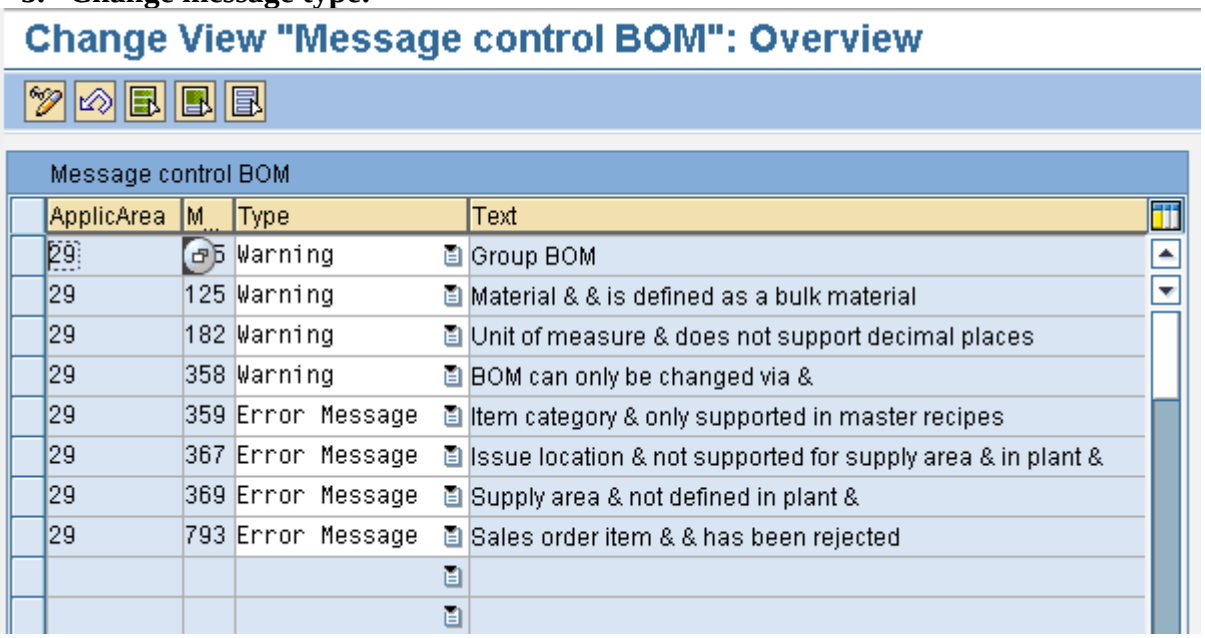
Note:
If you do not make any settings here, you can maintain bills of material either with or without history. However once you have maintained a bill of material with history, you can only change it with history after that. If you have changed a bill of material with history and want to change it without history, you need a special authorization.

Requirements:
If you want to define BOM maintenance with history as a default, the following must apply:

- First, you must complete step "Define BOM usages".
- You must also complete step "Define BOM statuses".
- In step "Configure modification parameters", you must activate
  - Validity date maintenance.
  - Engineering change management.

Activities:
Define for which BOM usage and which BOM status changes to BOMs are to be made with history. For Document structures leave the field BOM usage empty and only create the BOM status for which a change number is obligatory.

5. **Change message type:**



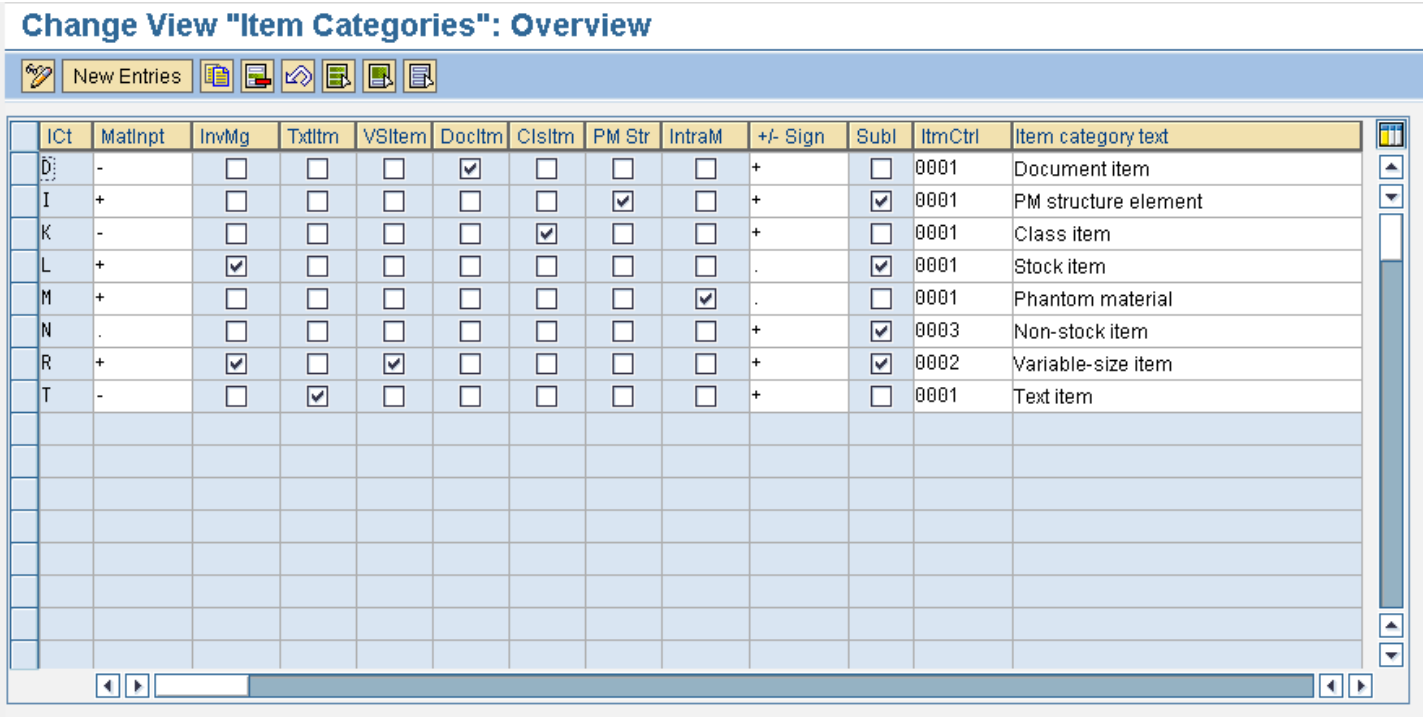
Change View "Message control BOM": Overview

Message control BOM

ApplicArea	M...	Type	Text
29	5	Warning	Group BOM
29	125	Warning	Material & & is defined as a bulk material
29	182	Warning	Unit of measure & does not support decimal places
29	358	Warning	BOM can only be changed via &
29	359	Error Message	Item category & only supported in master recipes
29	367	Error Message	Issue location & not supported for supply area & in plant &
29	369	Error Message	Supply area & not defined in plant &
29	793	Error Message	Sales order item & & has been rejected

ITEM DATA:

1. **Define item catogeries(OS13):**



Change View "Item Categories": Overview

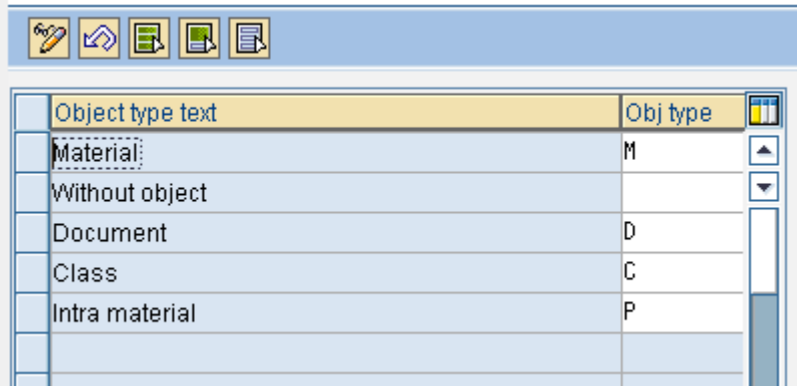
New Entries

ICt	MatInpt	InvMg	TxtItm	VSItem	DocItm	ClsItm	PM Str	IntraM	+/- Sign	SubI	ItmCtrl	Item category text
D	-	☐	☐	☐	☑	☐	☐	☐	+	☐	0001	Document item
I	+	☐	☐	☐	☐	☐	☑	☐	+	☑	0001	PM structure element
K	-	☐	☐	☐	☐	☑	☐	☐	+	☐	0001	Class item
L	+	☑	☐	☐	☐	☐	☐	☐	.	☑	0001	Stock item
M	+	☐	☐	☐	☐	☐	☐	☑	.	☐	0001	Phantom material
N	.	☐	☐	☐	☐	☐	☐	☐	+	☑	0003	Non-stock item
R	+	☑	☐	☑	☐	☐	☐	☐	+	☑	0002	Variable-size item
T	-	☐	☑	☐	☐	☐	☐	☐	+	☐	0001	Text item

- Here the category of the BOM item should be configured as is showing above.
- To configure this, the available items (Semi finished, raw material type) or material should be known to which category it is based on its purpose of usage.
- Generally in production planning the item categories will be stock items (L) or non stock items (N).
- If pricing procedure need to be carried out for a material that material should be a stock item and should be there in inventory management so.
- Based on the item usage can also be configure the new categories.

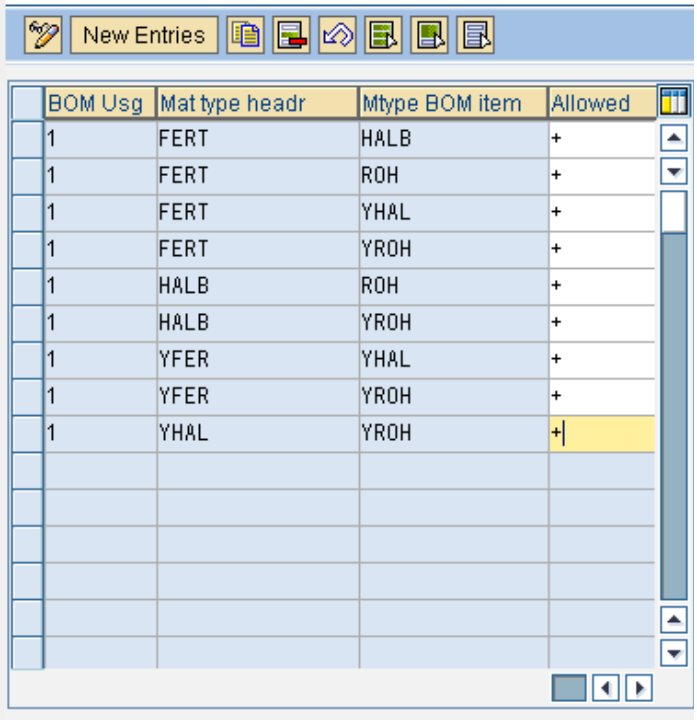
2. Define object type (OS16):

No need to go for this because the standard sap will suggest to not to change the existing objects. If you observe the screen bellow there is no copy as option. You can change the object only in a client requirement basis.



Object type text	Obj type
Material	M
Without object	
Document	D
Class	C
Intra material	P

3. Define allowed material types for BOM items (OS14):

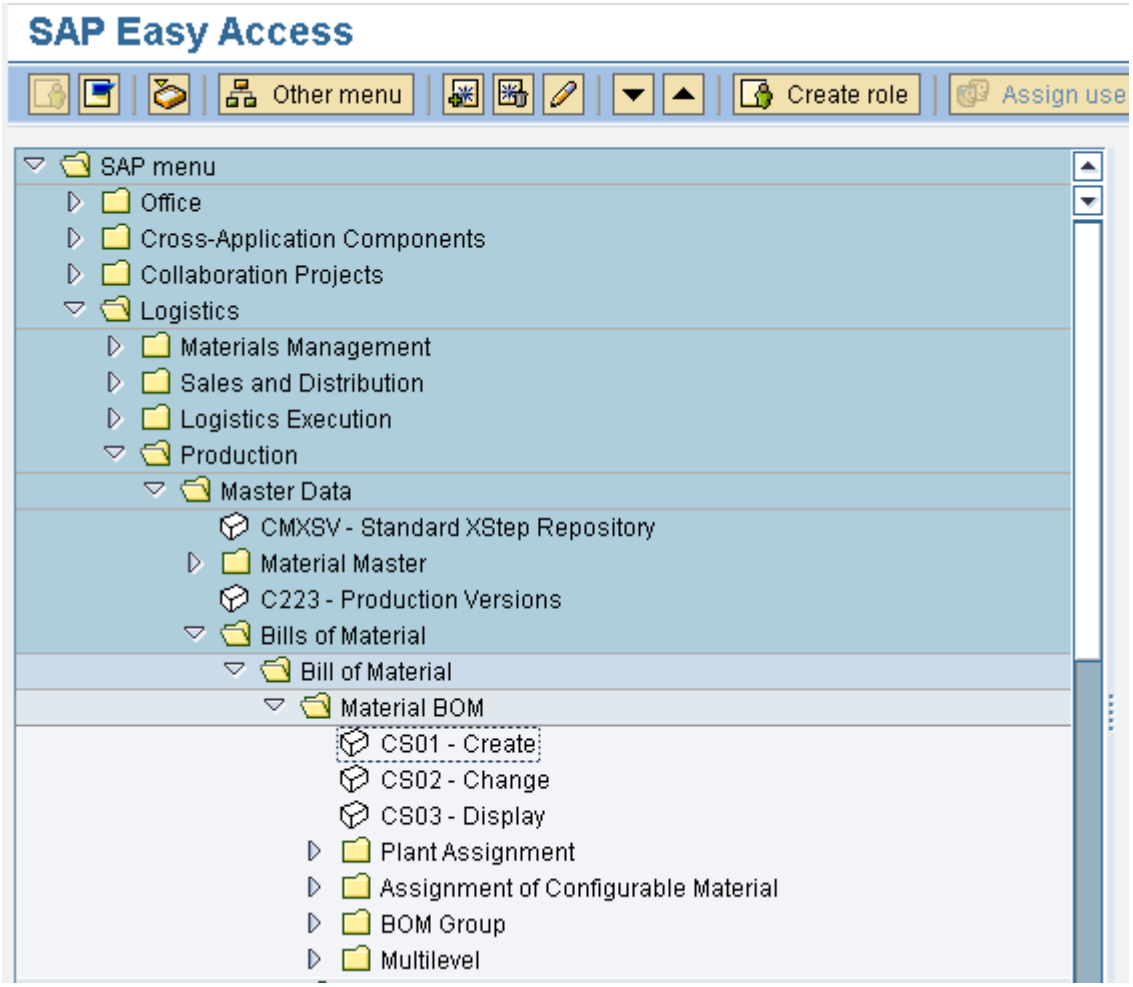


BOM Usg	Mat type headr	Mtype BOM item	Allowed
1	FERT	HALB	+
1	FERT	ROH	+
1	FERT	YHAL	+
1	FERT	YROH	+
1	HALB	ROH	+
1	HALB	YROH	+
1	YFER	YHAL	+
1	YFER	YROH	+
1	YHAL	YROH	+

- Once after the allowed material type for the header is defined, it is mandatory to define the allowed material types for the BOM items. So the combinations can be given as bellow.
- In general the header material types are finished (FERT) and semi finished (HALB). Under these material types the allowable items are HALB and ROH respectively.
- For a material type FERT the items will be HALB and ROH. So these combinations you have to set in this t-code.
- For a material type ROH there will not be items, but there will be sub items which we will not concentrate much.

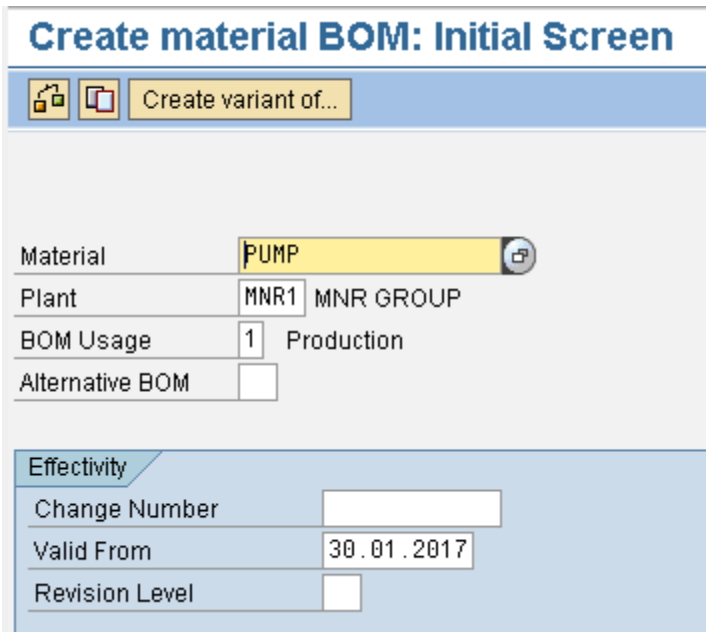
BOM FRONT ENDING PART:

Path:

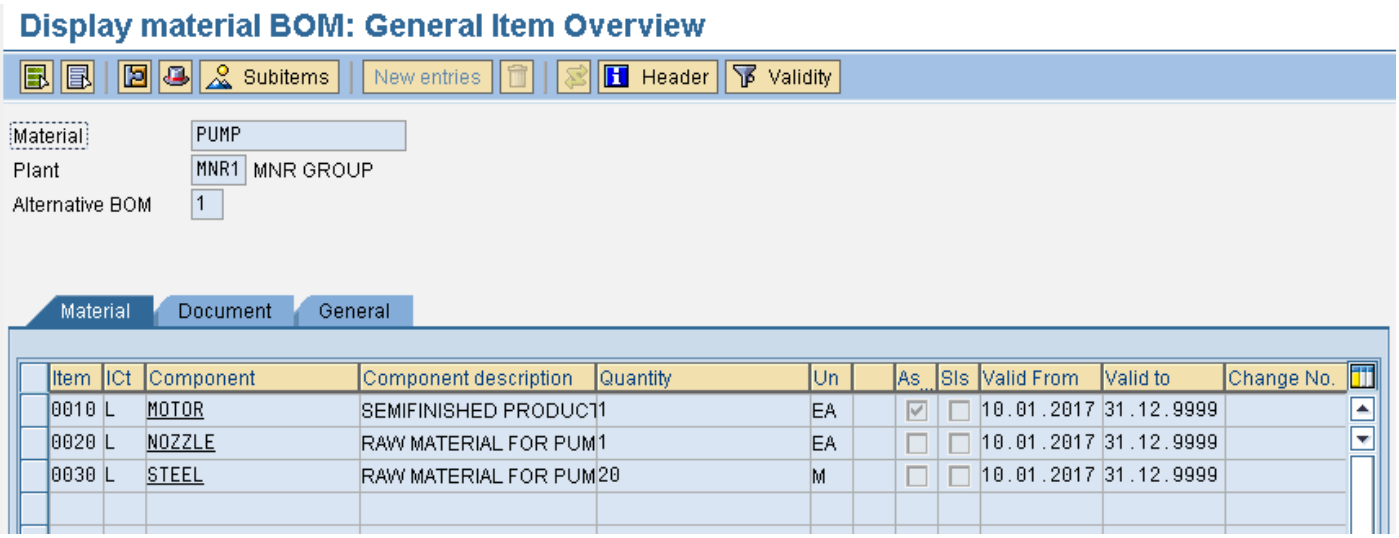


CS01:

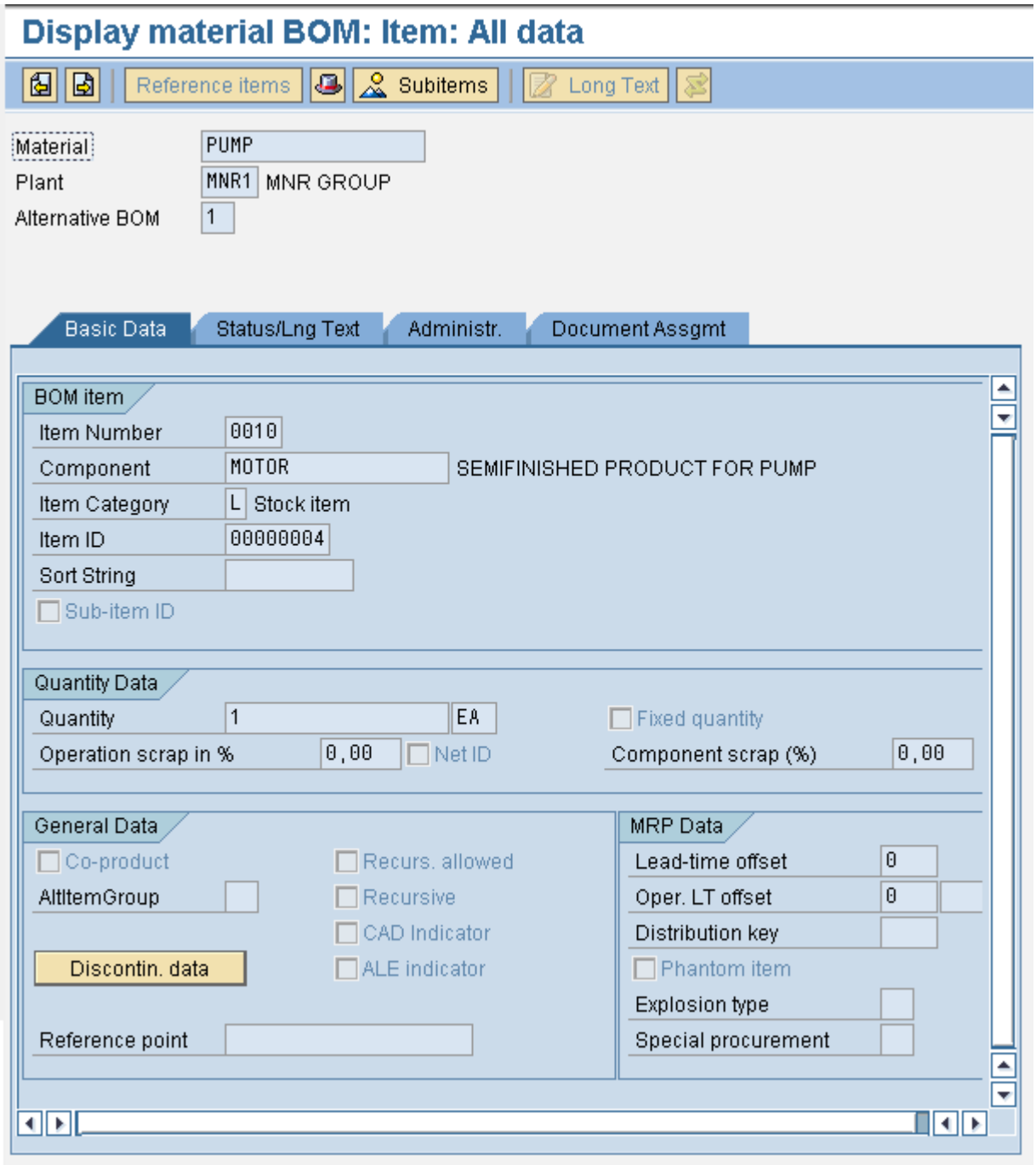
Initial screen:



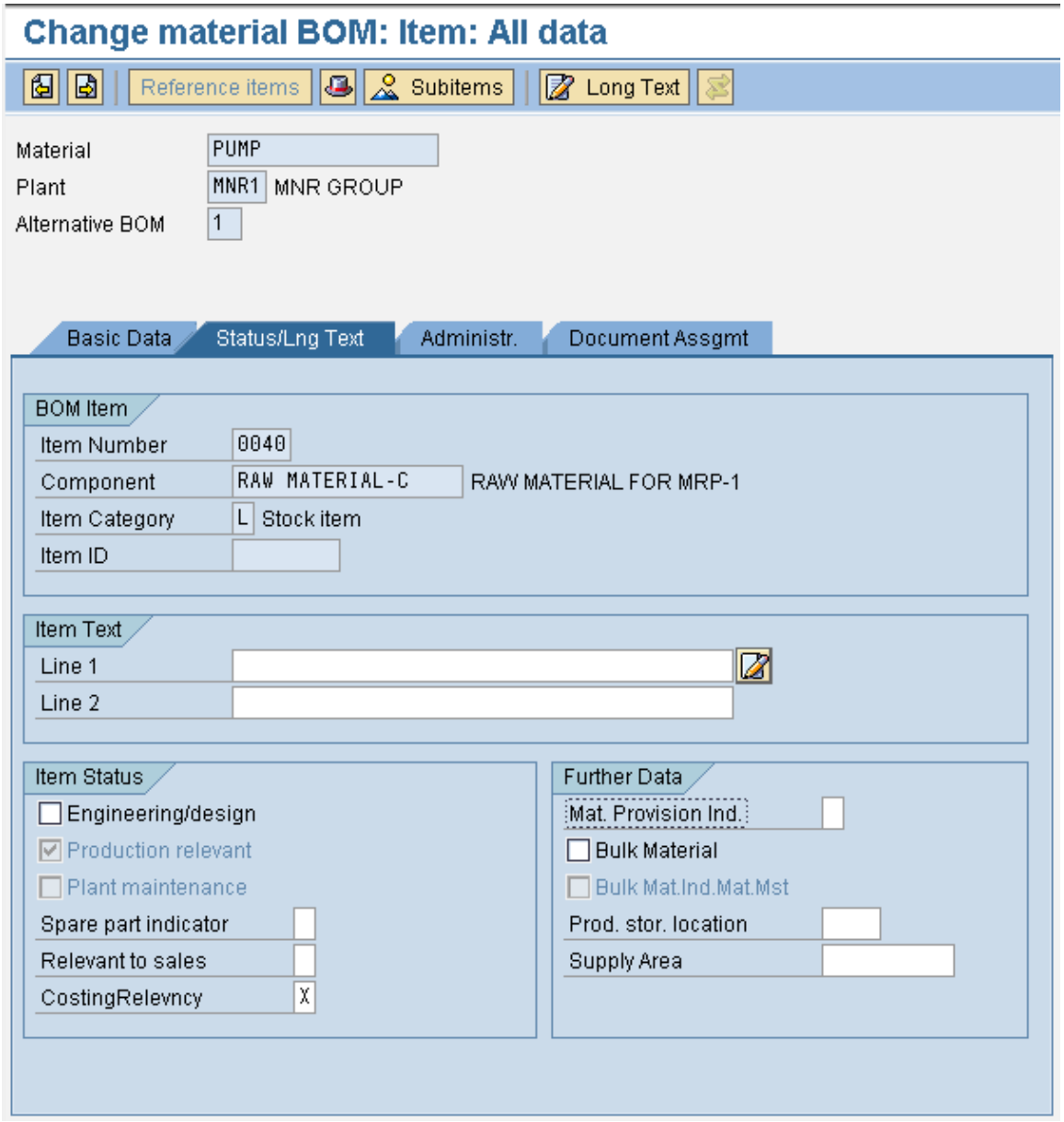
Item overview:



Item data: Basic data:

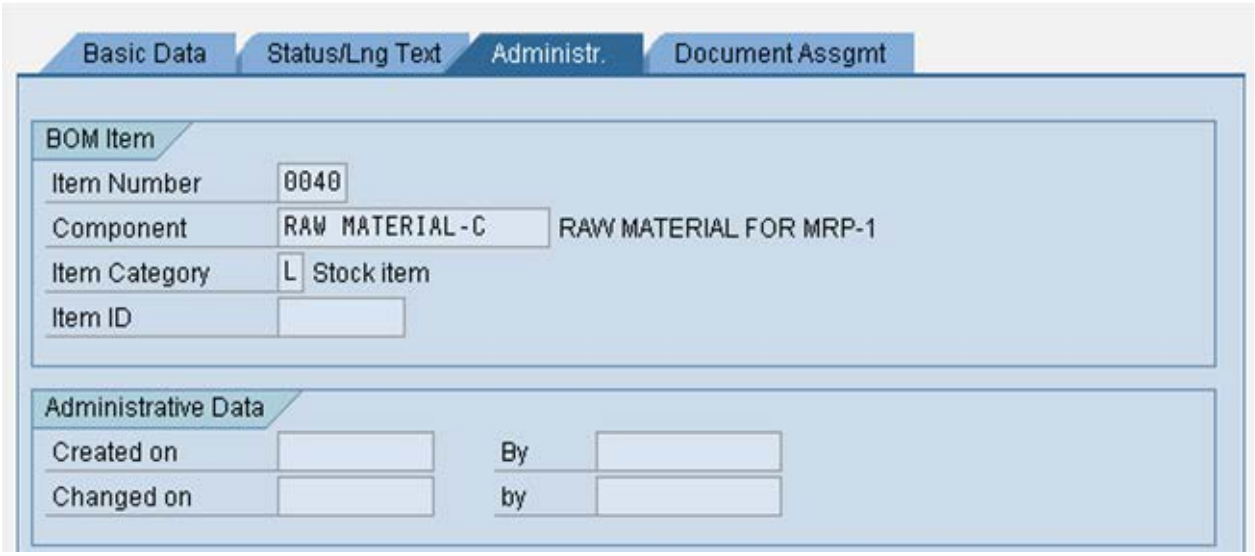


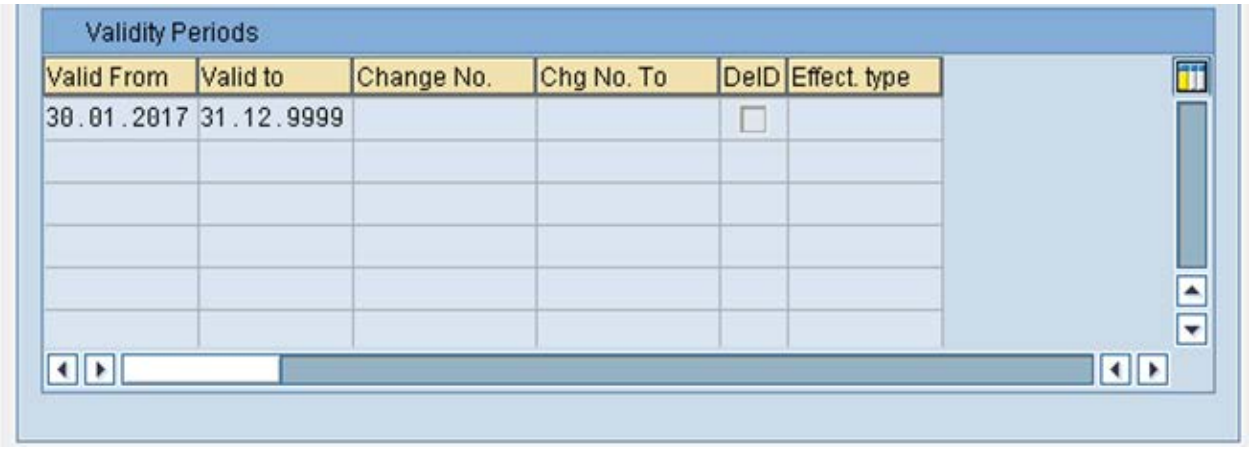
Item data: Status/long text:

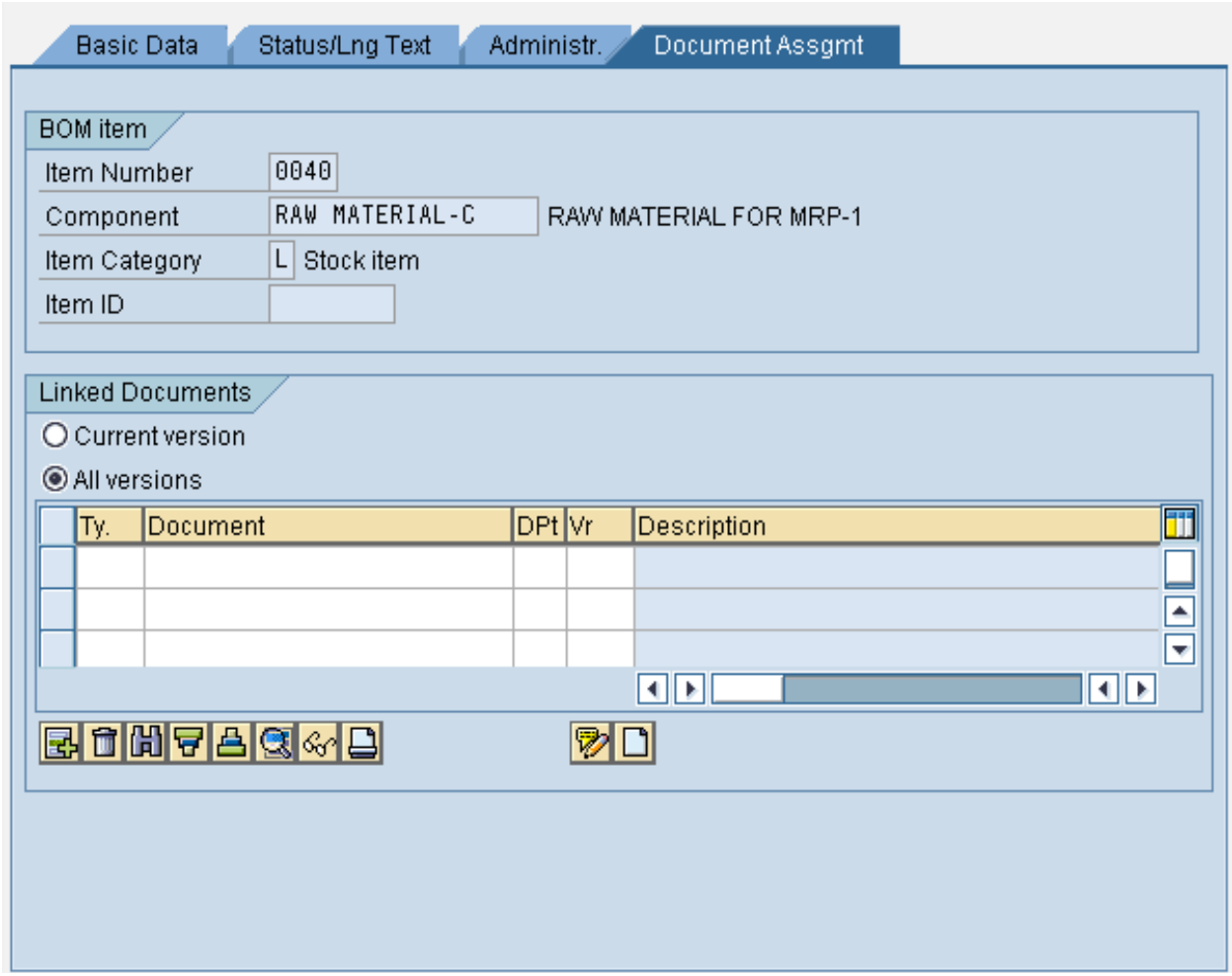


- This data is the most important data for PP.
- In data *Item status* tab will be filled by default by configuration for OS20, and OS21.
- In *Further data* tab the only data we have to take care is Prod. Stor. Location.

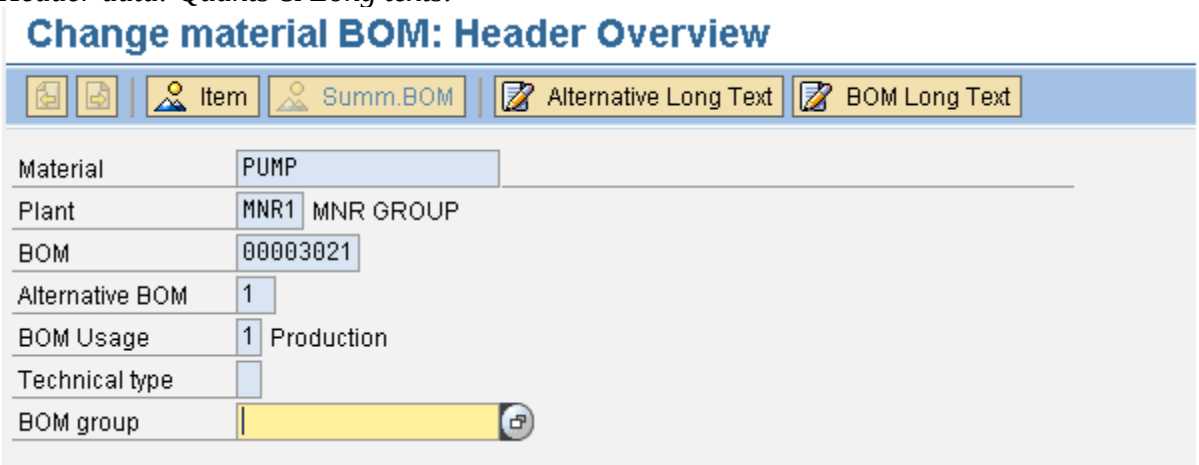
Item data: Administrator & Document assignment:

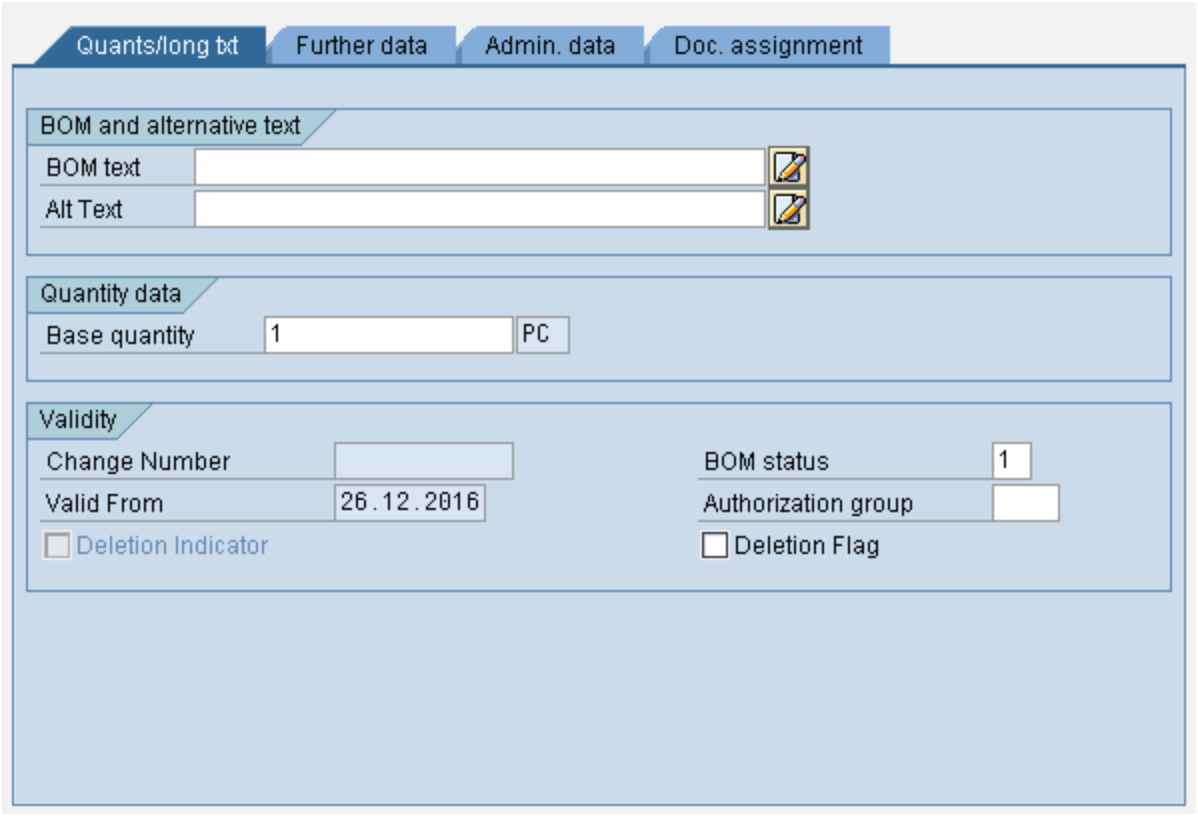






Header data: Quants & Long texts:





Here PP will only take care about *BOM text, base quantity, BOM status*. So before processing to customise BOM all the required fields you need to collect from the client in advance and you need to do the same.