



SAP VARIANT CONFIGURATION

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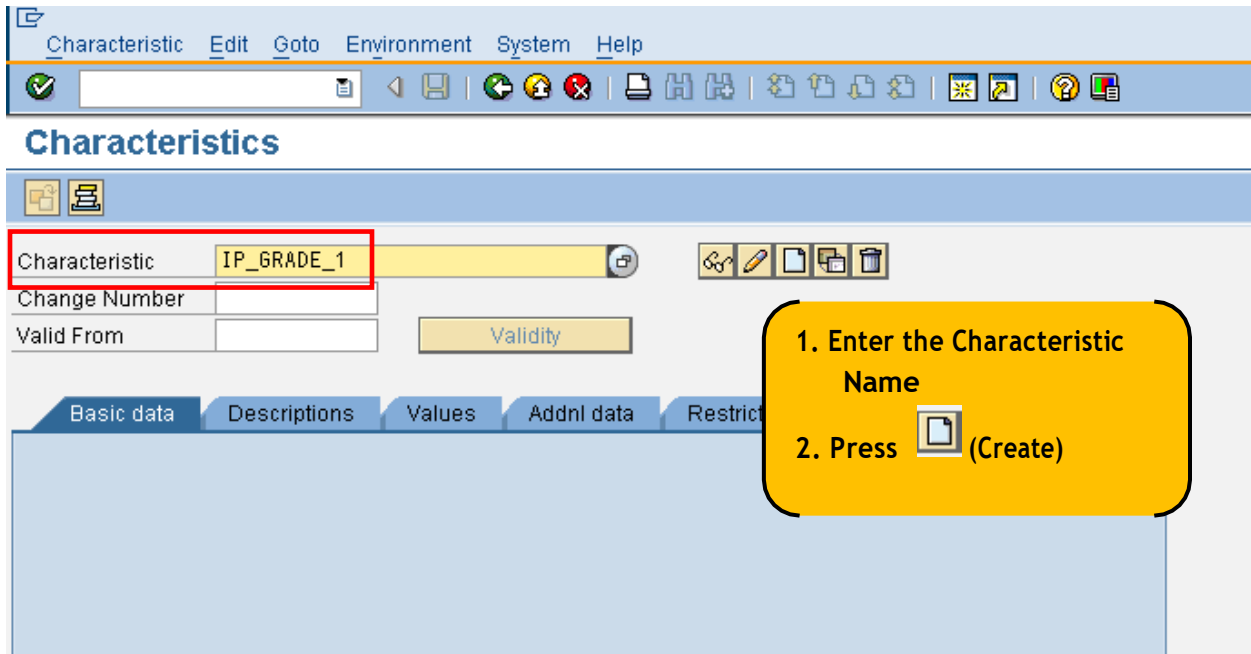
Variant Configuration User Manual

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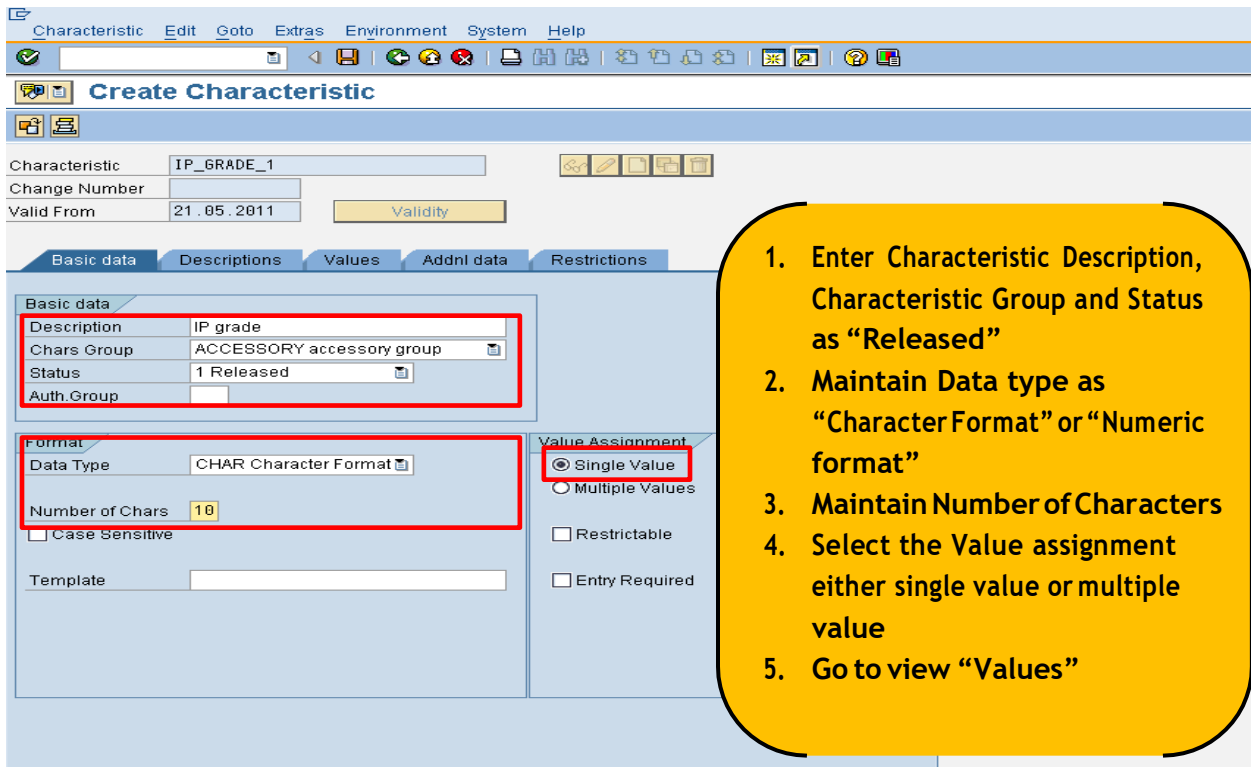
1. Create Characteristics (CT04)

(Logistics Central Functions Variant Configuration Environment Classification Master Data CT04 - Characteristics)



The screenshot shows the SAP 'Characteristics' screen in the 'Basic data' tab. The 'Characteristic' field is highlighted with a red box and contains the text 'IP_GRADE_1'. Below it are fields for 'Change Number' and 'Valid From'. A yellow callout box on the right contains the following instructions:

1. Enter the Characteristic Name
2. Press  (Create)



The screenshot shows the 'Create Characteristic' screen with the 'Format' and 'Value Assignment' tabs selected. The 'Basic data' tab is also visible. The 'Format' tab has a red box around the 'Data Type' field, which is set to 'CHAR Character Format', and the 'Number of Chars' field, which is set to '10'. The 'Value Assignment' tab has a red box around the 'Single Value' radio button. A yellow callout box on the right contains the following instructions:

1. Enter Characteristic Description, Characteristic Group and Status as "Released"
2. Maintain Data type as "Character Format" or "Numeric format"
3. Maintain Number of Characters
4. Select the Value assignment either single value or multiple value
5. Go to view "Values"

Characteristic Edit Goto Extras Environment System Help

Create Characteristic

Characteristic IP_GRADE_1
 Change Number
 Valid From 21.05.2011

Basic data Descriptions Values Addnl data Restrictions

Additional Values Other Value Check

Char. Value	Description	D	O	S
IP21	IP21 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP23	IP23 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP45	IP45 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP55	IP55 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Entry 1 of 4

1. Maintain the all possible Characteristic values

Characteristic Edit Goto Extras Environment System Help

Create Charac

Characteristic IP_GRADE_1
 Change Number
 Valid From 21.05.2011

Basic data Descriptions Values Addnl data Restrictions

Additional Values Other Value Check

Char. Value	Description	D	O	S
P21	IP21 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP23	IP23 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP45	IP45 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP55	IP55 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Entry 1 of 4

Extras Object Dependencies Editor

1. Select the Characteristic value and go to "Extras Object dependencies Editor" to assign dependencies

Characteristic Edit Goto Extras Environment System Help

Create Characteristic

Characteristic: IP_GRADE_1
 Change Number:
 Valid From: 21.05.2011

Basic data Descriptions Values Addnl data Restrictions

Additional Values Other Value Check

Char. Value	Description
IP21	IP21 protection
IP23	IP23 protection
IP45	IP45 protection
IP55	IP55 protection

Dependency Type

- Precondition
- Selection condition
- Action
- Procedure
- Constraint

1. Select the Dependency type. Ex Precondition
 2. Press Enter

Entry 1 of 4



Relationship Edit Goto System Help

Edit Dependency

Continue Replace Concatenate Split

Precondition
 Characteristic: IP_GRADE_1 IP grade
 Char. Value: IP21 IP21 protection

SourceCde
 000010 ALTERNATOR_SERIES='ECO 32'

1. Write the Source code for Dependency
 2. Press  (Check Consistency)
 3. Press  (Save) to save the dependency

Active (Changed)

No syntax errors were found

Characteristic Edit Goto Extras Environment System Help

Create Characteristic

Characteristic: IP_GRADE_1
 Change Number:
 Valid From: 21.05.2011

Basic data Descriptions Values Addnl data Restrictions

Additional Values Other Value Check

Char. Value	Description	D	O	S
IP21	IP21 protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IP23	IP23 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP45	IP45 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP55	IP55 protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Maintain Dependency for the required characteristic Values
 2. Go to view "Restrictions"

Characteristic Edit Goto Extras Environment System Help

Create Characteristic

Characteristic: IP_GRADE_1
 Change Number:
 Valid From: 21.05.2011

Basic data Descriptions Values Addnl data Restrictions

Valid Class Types

Class Type	Description
200	Material (Configurable Objects)
300	Variants

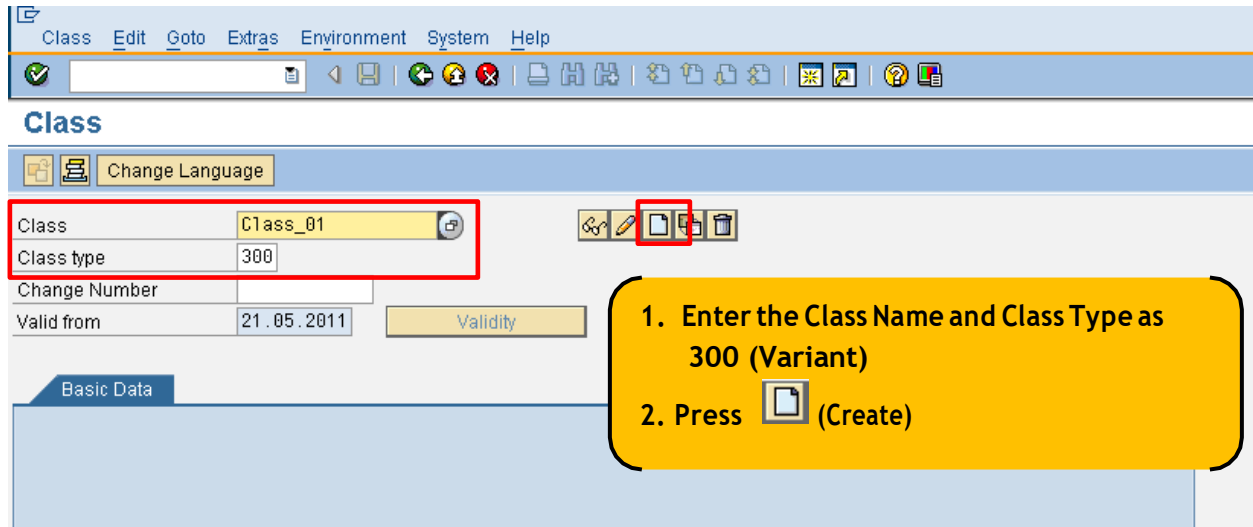
1. Maintain Valid Class Types i.e. 200(Material Configurable Objects) and 300 (Variants)
 2. Save the Characteristic

Entry 1 of 2

Characteristic IP_GRADE_1 saved

2. Create Class (CL01)

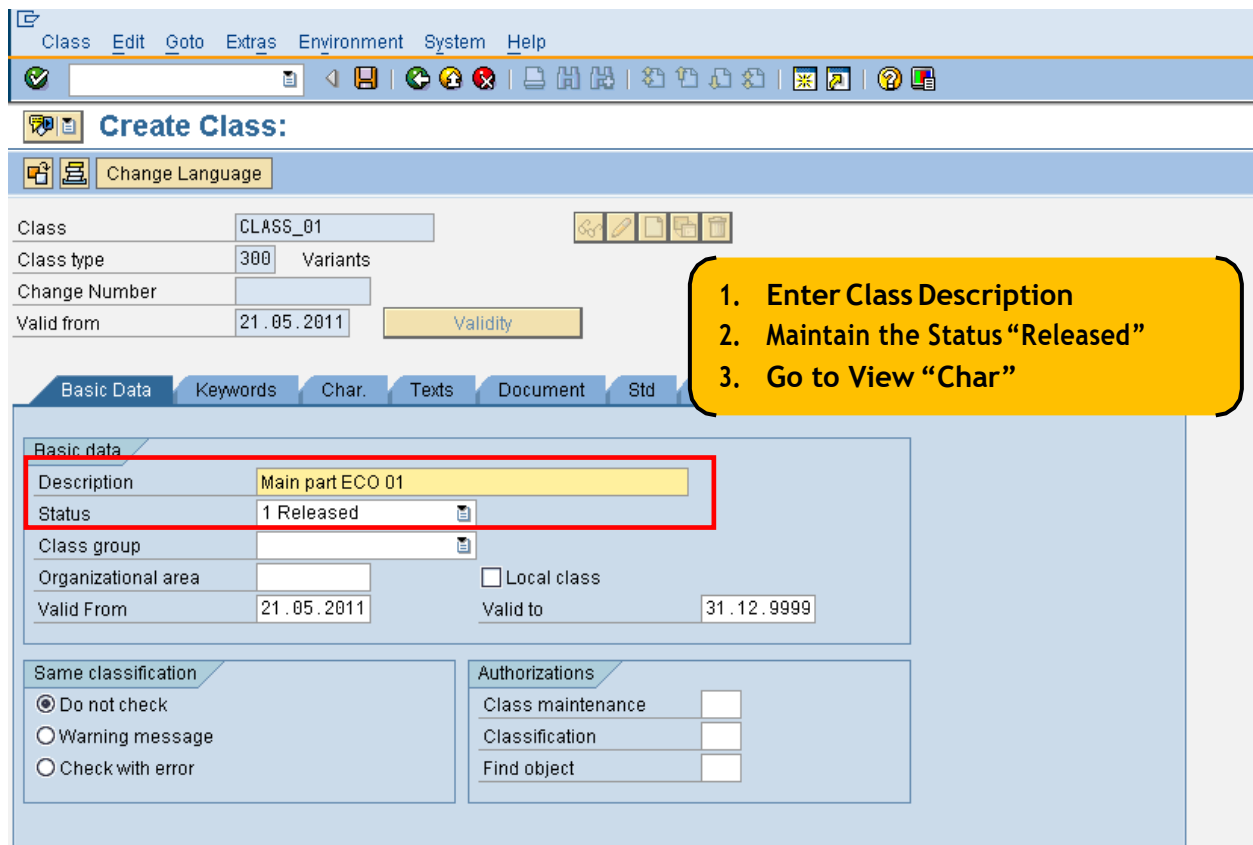
(Logistics Central Functions Variant Configuration Environment Classification Master Data CL02 - Classes)



The screenshot shows the SAP 'Class' creation screen. The 'Class' field contains 'CClass_01' and the 'Class type' field contains '300'. A yellow callout box on the right provides instructions: '1. Enter the Class Name and Class Type as 300 (Variant)' and '2. Press [Create] (Create)'. The 'Create' button, represented by a document icon, is highlighted with a red box.

Class: CClass_01
Class type: 300
Valid from: 21.05.2011

1. Enter the Class Name and Class Type as 300 (Variant)
2. Press [Create] (Create)



The screenshot shows the 'Create Class' screen with the 'Basic Data' tab selected. The 'Class' field is 'CLASS_01' and 'Class type' is '300'. A yellow callout box on the right provides instructions: '1. Enter Class Description', '2. Maintain the Status "Released"', and '3. Go to View "Char"'. The 'Description' field contains 'Main part ECO 01' and the 'Status' field contains '1 Released'. Both fields are highlighted with a red box.

Class: CLASS_01
Class type: 300
Valid from: 21.05.2011

1. Enter Class Description
2. Maintain the Status "Released"
3. Go to View "Char"

Description: Main part ECO 01
Status: 1 Released

Class Edit Goto Extras Environment System Help

Class: CLASS_01
 Class type: 300 Variants
 Change Number:
 Valid from: 21.05.2011

Create Class:

Change Language

1. Enter/Assign all required characteristics to the Class
 2. Go to View "Addnl Data"

Char.	Description	Data	N	D	Unit	R	Org. Areas	Std	O	I	Origin
ALTERNATOR_SERIES	Alternator series	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
STACK_LENGTH	Stack Length	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
POLES_NUMBER	Poles Number	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
CONSTRUCTION_FORM_EVALUATION	Const. Form (evaluation)	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
VOLTAGE_LEADS	Voltage (Leads) [V]	CHAR	30	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
FREQUENCY	Frequency [Hz]	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
POWER_RATING	Power Rating [KVA]	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
REV_PER_MINUTE	Rev. Per Minute [RPM]	CHAR	10	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
TECHNICAL_SPECIFICATION	Technical specification	CHAR	30	0		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	

Entry 1 of 9

Class Edit Goto Extras Environment System Help

Class: CLASS_01
 Class type: 300 Variants
 Change Number:
 Valid from: 21.05.2011

Create Class:

Basic Data Keywords Char. Texts Document Std Addnl Data

Use of class

Allowed in BOMs
 Low-level code

Default data for component

Base Unit of Measure: NOS
 Res. item category: L

Organizational area

Required Component
 Multiple Selection

1. Make a tick mark for "Allowed in BOMs"
 2. Enter Base unit of Measure and Res. Item category
 3. Press (Save)

Class type 300: Class CLASS_01 created

3. Assign Class to Material Master (CL20N)

(Logistics Central Functions Variant Configuration Environment Classification Classification
CL20N - Assign Object to Classes)

Assignment Edit Goto Value assignment Extras Environment System Help

Selection

Material	0314400555
Class Type	300

Assignments

Class	Description	Sta	S	Icon	Item
-------	-------------	-----	---	------	------

Entry / 0

1. Enter Material code to which class is to be assigned
2. Enter Class type as 300
3. Press (Enter)

Assignment Edit Goto Value assignment Extras Environment System Help

Selection

Material	0314400555	Alternator
Class Type	300	Variants

Assignments

Class	Description	Sta	S	Icon	Item
CLASS_01		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			

Entry / 12

1. Select the Class using F4 Help
2. Press (Enter)

Assignment Edit Goto Value assignment Extras Environment System Help

Assign Object to Classes

Selection

Material: 0314400555 Alternator
 Class Type: 300 Variants: _____

Assignments


Class	Description	Sta	S	Icon	Item
CLASS_01	Main part ECO 01	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	10


Values for Class CLASS_01 - Object 0314400555

General

Characteristic Description	Value
Alternator series	ECO 28
Stack Length	1L
Poles Number	4 Poles
Const. Form (evaluation)	MD35/3
	MD35/4
Voltage (Leads) [V]	110/220 V - 4 Leads
	115/230 V - 4 Leads
	120/240 V - 4 Leads
	138/277 V - 4 Leads

1. Choose the Characteristic values that are required as "Default" (While maintaining configuration data these values will appear default)

2. Press  (Save)

 Saving changes to assignments


4. Assign Class to Bill of Material (CS01/CS02)


(Logistics Production Master Data Bills of Material Bill of Material Material  
 - Create/CS02 - Change)



Create material BOM: Initial Screen

Create variant of...

Material	0314400555
Plant	bp01
BOM Usage	1 
Alternative BOM	

1. Enter Material Code, Plant and BOM Usage
2. Press  (Enter)

Effectivity

Change Number	
Valid From	21.05.2011


Material BOM Edit Goto Extras Environment Settings System Help

Create material BOM: General Item Overview


Subitems New entries Header Validity

Material: 0314400555 Alternator
 Plant: BP01 Mecc Alte India Plant, Pune
 Alternative BOM: 2

Item	Ict	R	Ty	Class	Component description	Quantity	Un	OD	As	Sls	Valid From	Valid to	Item ID	Chg No. To
0010	K	L	300	CH_EC028		1								
0020														
0030														
0040														
0050														
0060														
0070														
0080														
0090														
0100														
0110														
0120														
0130														
0140														
0150														
0160														

1. Select the Item Category as "K(Class Item"
2. Enter Resulting Item Category as "L(Stock Item)"
3. Select Class Type 300 (Variant)
4. Enter the Class and quantity
5. Press  (Save) the BOM

Position... Initial Entry


 Creating BOM for material 0314400555

5. Create Configuration Profile for FERT (Root Code Item) (CU41)

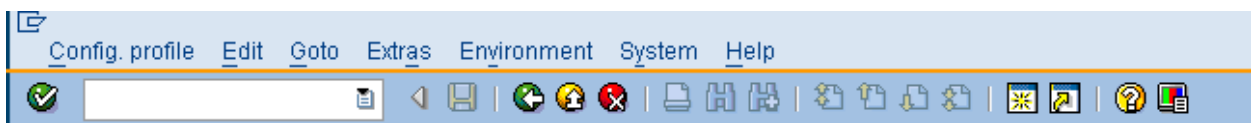
(Logistics Central Functions Variant Configuration Configuration Profile CU41 - ~~Get~~)



Create Configuration Profile: Initial Screen


1. Select Configurable Object "Material"
2. Press  (Enter)

The dialog box titled "Select Configurable Object" is shown. It contains a list of objects: Objects, Material, General maintenance task list, Standard network, and Model service specifications. The "Material" option is highlighted with a red rectangle. At the bottom of the dialog, there are checkmark and X icons.





Create Configuration Profile for Material: Initial Screen

Change configurable obj.

Material 0313882620 

Effectivity
Change number
Valid from 16.05.2011

1. Enter Material Code
2. Press  (Enter)

The dialog box titled "Change configurable obj." is shown. It contains a text field with "Material" and a value field with "0313882620". Below this is a section for "Effectivity" with fields for "Change number" and "Valid from" (containing "16.05.2011"). A yellow callout box on the right contains instructions: "1. Enter Material Code" and "2. Press  (Enter)".


Config.profile Edit Goto Extras Environment System Help

Create Configuration profile for material: Profile Overview

Class assignments New entries

Material 0313882620 ALTERNATOR ECO 32-3L

Priority	Prof. Name	CI	Org. Areas	S	Status Text
10	0313882620 CONFG MATERIAL	300			

1. Enter Priority number as "10"
2. Maintain Prof. Name and Class "300"
3. Select the Line and Press  (Profile Detail)

Config.profile Edit Goto Extras Environment System Help

Create Configuration profile for material: Detail Screen

Material 0313882620 ALTERNATOR ECO 32-3L

Profile name 0313882620 CONFG MATERIAL

Basic data **Config initial screen**

Class Type 300 Variants Class Assignment

Status 1 Released

Valid From Start Logo

1. Select the Status "1" i.e. Released
2. Go to Tab "Configuration initial screen"

Config. profile Edit Goto Extras Environment System Help

Create Configuration profile for material: Detail Screen

Material: 0313882620 ALTERNATOR ECO 32-3L
 Profile name: 0313882620 CONFG MATERIAL

Basic data Config initial screen

Config Parameters UserInterf

Process


- Plnd/Prod. Order
- Sales Order (SET)
- Order BOM
 - Knowl.-Based
 - Result-Oriented

BOM Explosion

- None
- Sing-Level
- Multilevel

Order Functions

- Component Availability


1. Check Configuration Parameters
 2. Press the Button  (Dependency Assignments)


Dependency editor Edit Goto Extras Tools System Help


Maintain Dependency: Assignments to Objects

Material: 0313882620 ALTERNATOR ECO 32-3L
 Profile name: 0313882620 CONFG MATERIAL

Assignments

Sort	Dep.	Description	S	Dep. Type
	B10_RPM			
	B20_RPM			
	B30_RPM			
	B40_RPM			
	C10_POWER_RATING			

1. Select the required dependencies using F4 help
 2. Press button  (Save)


 Configuration profile for material 0313882620 created

6. Create Configuration Profile for KMAT (Configurable Item) (CU41)

(Logistics Central Functions Variant Configuration Configuration Profile CU41 - ~~Get~~)




Create Configuration Profile: Initial Screen

1. Select Configurable Object "Material"
2. Press  (Enter)

The dialog box titled 'Select Configurable Object' is open. It contains a list of objects: 'Objects', 'Material', 'General maintenance task list', 'Standard network', and 'Model service specifications'. The 'Material' option is highlighted with a red rectangular box. At the bottom of the dialog, there are 'OK' (checkmark) and 'Cancel' (X) buttons.



Create Configuration Profile for Material: Initial Screen

1. Enter Material Code
2. Press  (Enter)

The dialog box titled 'Change configurable obj.' is open. It has a 'Material' field with the value 'EC0324L' entered, which is highlighted with a red rectangular box. Below this field is an 'Effectivity' section with two input fields: 'Change number' (empty) and 'Valid from' (containing '16.05.2011'). At the bottom right, there are 'OK' (checkmark) and 'Cancel' (X) buttons.

Config. profile Edit Goto Extras Environment System Help

Class assignments New entries

Material EC0324L ALTERNATOR ECO 32-4L

Create Configuration profile for material: Profile Overview

P	Prof. Name	Cl	Org. Areas	S	Status Text
10	EC0323L CONFG MATERIAL	300			

1. Enter Priority number as "10"
2. Maintain Prof. Name and Class "300"


Config. profile Edit Goto Extras Environment System Help

Class assignments New entries

Material EC0324L ALTERNATOR ECO 32-4L

Create Configuration profile for material: Profile Overview

P	Prof. Name	Cl	Org. Areas	S	Status Text
10	EC0323L CONFG MATERIAL	300		1	Released

1. Select the Line and Press  (Profile Detail)

Config. profile Edit Goto Extras Environment System Help

Material EC0324L ALTERNATOR ECO 32-4L

Profile name EC0323L CONFG MATERIAL

Create Configuration profile for material: Detail Screen

Basic data Config initial screen

Class Type 300 Variants

Status 1 Released

Valid From

Start Logo

1. Select the Status "1" i.e. Released
2. Go to Tab "Configuration initial screen"

Config. profile Edit Goto Extras Environment System Help

Create Configuration profile for material: Detail Screen

Material EC0324L ALTERNATOR ECO 32-4L
 Profile name EC0323L CONFIG MATERIAL

Basic data Config initial screen

Config Parameters UserInterf Order BOM

Process
 Plnd/Prod. Order
 Sales Order (SET)
 Order BOM
 Knowl.-Based
 Result-Oriented

BOM Explosion
 None
 Sing-Level
 Multilevel

Parameters for BOM Explosion
 Application PP01 Production - General
 Filter

Order Functions
 Component Availability

Level of Detail
 Only Configurable Assemblies

1. Maintain Configuration Parameters
 2. Go to View "UserInterf"

Config. profile Edit Goto Extras Environment System Help

Create Configuration profile for material: Detail Screen

Material EC0324L ALTERNATOR ECO 32-4L
 Profile name EC0323L CONFIG MATERIAL

Basic data Config initial screen

Config Parameters UserInterf Order BOM

Interface design EC032_ACC_OP_NP

Settings

Config browser

Allowed screens
 Char. value assign
 Result
 Master data
 Config structure

Start with
 Char. value assign
 Result
 Master data
 Config structure

1. Maintain User Interface design data
 2. Go to View "Order BOM"

Config. profile Edit Goto Extras Environment System Help


Material: EC0324L ALTERNATOR ECO 32-4L
 Profile name: EC0323L CONFIG MATERIAL

Basic data Config initial screen

Config Parameters UserInterf Order BOM

Maint. in Order Allowed
 Automatic Fixing

Fix / Instantiate


1. Make a tick mark for "Maint. In Order Allowed and Automatic Fixing"
 2. Press  to assign dependency

Dependency editor Basic data

Material: EC0324L ALTERNATOR ECO 32-4L
 Profile name: EC0323L CONFIG MATERIAL


Assignments

Sort	Dep.	Description	S	Dep. Type
	B10_RPM			
	B20_RPM			
	B30_RPM			
	B40_RPM			
	A100_NP_FREQUENCY			
	A10_NP_TYPE			
	A110_NP_VOLTAGE			
	A120_NP_CURRENT			
	A130_NP_VECC			
	A140_NP_IECC			
	A150_NP_POWER_RATING_3			
	A160_NP_FREQUENCY_3			


1. Select the required dependencies using F4 help
 2. Press button  (Enter)

Dependency Edit Goto Extras Tools System Help

Material: ECO324L ALTERNATOR B
 Profile name: ECO323L CONFIG MATERIAL

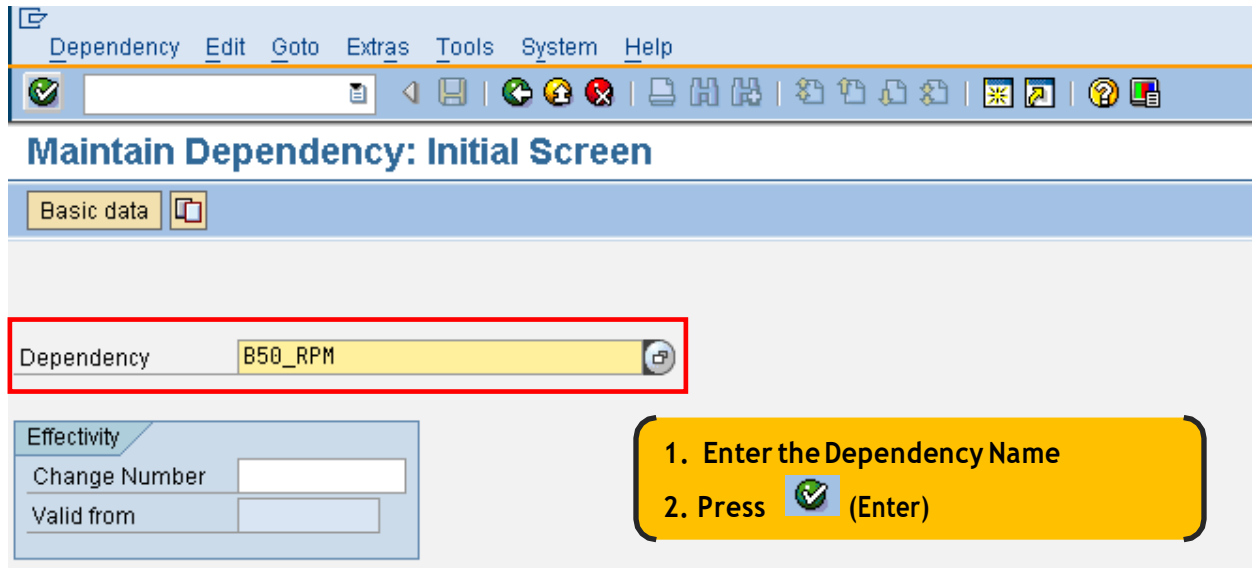
1. Check all dependencies are assigned correctly
2. Press  (Save)

Sort	Dep.	Description	S	Dep. Type
	B10_RPM	B10_1500_RPM	1	Action
	B20_RPM	B20_1800_RPM	1	Action
	B30_RPM	B30_3000_RPM	1	Action
	B40_RPM	B40_3600_RPM	1	Action
	A100_NP_FREQUENCY	A100_NP_FREQUENCY	1	Procedure
	A10_NP_TYPE	A10_NP_TYPE	1	Procedure
	A110_NP_VOLTAGE	A110_NP_VOLTAGE	1	Procedure
	A120_NP_CURRENT	A120_NP_CURRENT	1	Procedure
	A130_NP_VECC	A130_NP_VECC	1	Procedure
	A140_NP_IECC	A140_NP_IECC	1	Procedure
	A150_NP_POWER_RATING_3	A150_NP_POWER_RATING_3	1	Procedure
	A160_NP_FREQUENCY_3	A160_NP_FREQUENCY_3	1	Procedure

 Configuration profile for material ECO324L created


7. Create Dependency

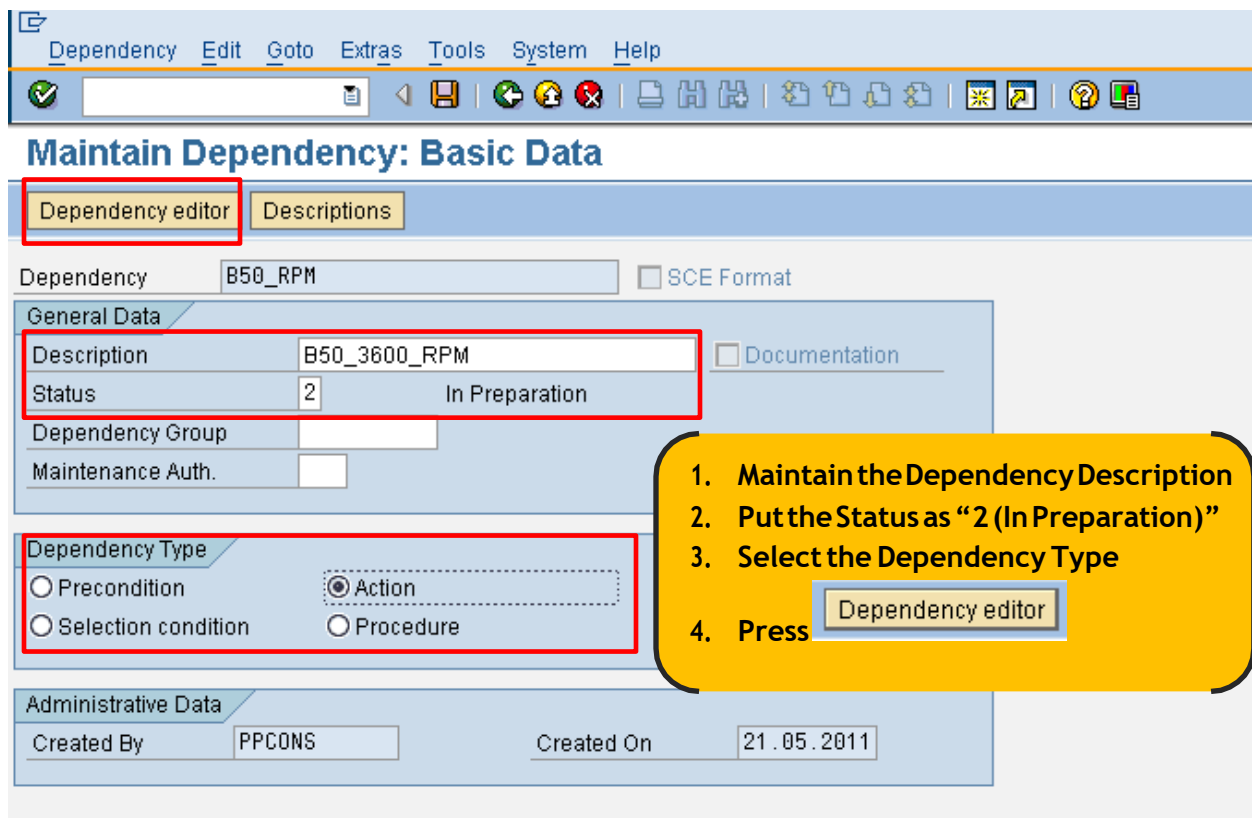
(Logistics Central Functions Variant Configuration Dependency Single 
 Create)



Dependency

Effectivity
Change Number
Valid from

1. Enter the Dependency Name
2. Press  (Enter)



Dependency SCE Format

General Data
Description Documentation
Status In Preparation
Dependency Group
Maintenance Auth.

Dependency Type
 Precondition Action
 Selection condition Procedure

Administrative Data
Created By Created On

1. Maintain the Dependency Description
2. Put the Status as "2 (In Preparation)"
3. Select the Dependency Type
4. Press

8. Dependency types

1. Precondition:

A precondition describes when an object (characteristic, characteristic value, BOM item, operation, and so on) can be copied to the configuration.

If a precondition is linked to an object, for example a characteristic value, the object only appears in configuration if the condition described in the precondition is fulfilled.

A precondition is used to ensure the consistency of the configuration.

Ex. Characteristic: CONSTRUCTION_FORM_EVALUATION

Char. Value: MD35/6

Source Code: ALTERNATOR_SERIES='ECP3'

Ex. Characteristic: CONSTRUCTION_FORM_EVALUATION

Char. Value: MD35/2

Source Code: ALTERNATOR_SERIES='ECO 28' or ALTERNATOR_SERIES='ECO 32'

2. Action:

An action allows characteristic values to be inferred automatically. An action is always carried out when the object to which the action is linked is copied to the configuration.

An action can only affect the object which is currently being processed. For this reason, the syntax must always start with "\$SELF." followed by the name of the characteristic whose value is to be inferred.

Ex. Action: B20_RPM

Material: 0319100201

Profile name: 0319100201 CONFIG MATERIAL

Source Code:

\$SELF.REV_PER_MINUTE='1800'

IF \$ROOT.POLES_NUMBER='4' and FREQUENCY='60'

3. Selection Condition:

A selection condition describes when a component (characteristic, characteristic value, BOM item, operation, and so on) has to be copied to the configuration.

Example:

If a BOM item is linked to a selection condition, and this condition is fulfilled, the BOM item must be included in the BOM explosion.

If a characteristic is linked to a selection condition, and this condition is fulfilled, you must assign a value to the characteristic in configuration.

A selection condition is used to ensure that the configuration is complete.

Ex. BOM: ECO323S

Item: 0160 M 6110606058

Source Code: TYPE_ELECTRONIC_REGULATOR = 'DSR'

4. Procedure

You can use a procedure to infer values for characteristics, as you can actions.

However, unlike actions, the result of procedures is dependent on the sequence in which they are processed. In procedures, you can use language elements that are not allowed in actions. Procedures always refer to the object \$SELF.

Select this indicator if you want to create a local procedure.

Ex. Procedure: C10_POWER_RATING

Material: 0313882206

Profile name: 0313882206 CONFIG MATERIAL

Source code:

```
TABLE POWER_RATING
```

```
(ALTERNATOR_SERIES = ALTERNATOR_SERIES, POLES_NUMBER = POLES_NUMBER,
```

```
STACK_LENGTH = STACK_LENGTH, FREQUENCY = FREQUENCY,
```

```
VOLTAGE_LEADS = VOLTAGE_LEADS,
```

```
TECHNICAL_SPECIFICATION = TECHNICAL_SPECIFICATION,
```

```
POWER_RATING = $SELF.POWER_RATING)
```

9. Create Table Structure (CU61)

(Logistics
Create)

Central Functions

Variant Configuration

Tools

Table Structure

CU61-

Table Edit Goto Extras Environment System Help

Table YNAME

Date 24.05.2011

1. Enter the table Name
2. Press [Enter] (Enter)

Table Edit Goto Extras Environment System Help

Characteristics Value Assignment Alternative Descriptions...

Table YNAME NAME PLATE TABLE

Basic Data

Status 0 In Preparation

Group

Database Table

1. Write Table Name description
2. Press [Characteristics]

Authorizations

Table Structure

Table Contents

Table Category

Decision Table

Table Edit Goto Extras Environment System Help

Create Table: Characteristics

Characteristic

Table YNAME NAME PLATE TABLE

Characteristic	Key Field	Description
ALTERNATOR_SERIES	<input checked="" type="checkbox"/>	
STACK_LENGTH	<input type="checkbox"/>	
POLES_NUMBER	<input type="checkbox"/>	
VOLTAGE_LEADS	<input type="checkbox"/>	
NP_VERSION	<input type="checkbox"/>	
NP_TYPE	<input type="checkbox"/>	
NP_PHASE	<input type="checkbox"/>	
NP_SERVICE	<input type="checkbox"/>	
NP_INSULATION_CLASS	<input type="checkbox"/>	
NP_COS_FI	<input type="checkbox"/>	
NP_RPM	<input type="checkbox"/>	
NP_IP_GRADE	<input type="checkbox"/>	
NP_WEIGHT	<input type="checkbox"/>	
NP_PD2	<input type="checkbox"/>	

1. Enter the characteristics that are needed to be maintained in the table


2. Press  (Enter)

Table Edit Goto Extras Environment System Help

Create Table: Characteristics

Characteristic

Table YNAME NAME PLATE TABLE

Characteristic	Key Field	Description
ALTERNATOR_SERIES	<input checked="" type="checkbox"/>	Alternator series
STACK_LENGTH	<input type="checkbox"/>	Stack Length
POLES_NUMBER	<input type="checkbox"/>	Poles Number
VOLTAGE_LEADS	<input type="checkbox"/>	Voltage (Leads) [V]
NP_VERSION	<input type="checkbox"/>	Out from standard variation
NP_TYPE	<input type="checkbox"/>	Name Plate type
NP_PHASE	<input type="checkbox"/>	Phases
NP_SERVICE	<input type="checkbox"/>	Name Plate: service
NP_INSULATION_CLASS	<input type="checkbox"/>	Insulation Class
NP_COS_FI	<input type="checkbox"/>	Cos fi
NP_RPM	<input type="checkbox"/>	Name Plate: RPM
NP_IP_GRADE	<input type="checkbox"/>	Name Plate: IP grade
NP_WEIGHT	<input type="checkbox"/>	Name Plate: weight
NP_PD2	<input type="checkbox"/>	Name Plate: PD2

1. Mark the Characteristic for Key Field


2. Go to  (Header)

Table Edit Goto Extras Environment System Help

Create Table: Basic Data

Characteristics Value Assignment Alternative Descriptions...

Table YNAME NAME PLATE TABLE

Basic Data

Status 1 Released

Group

Database Table

1. Change the Table Status to "1 (Released)"
2. Save the Table

Authorizations

Table Structure

Table Contents

Table Category

Decision Table

Table YNAME created

10. Maintain Table Contents (CU60)

(Logistics Maintain)

Central Functions

Variant Configuration

Tools

Table Contents

CU60-

Table Maintenance

Table: YNAME

Effectivity

Change number:

Valid from: 24.05.2011


1. Enter Table Name
2. Press (Change Data)

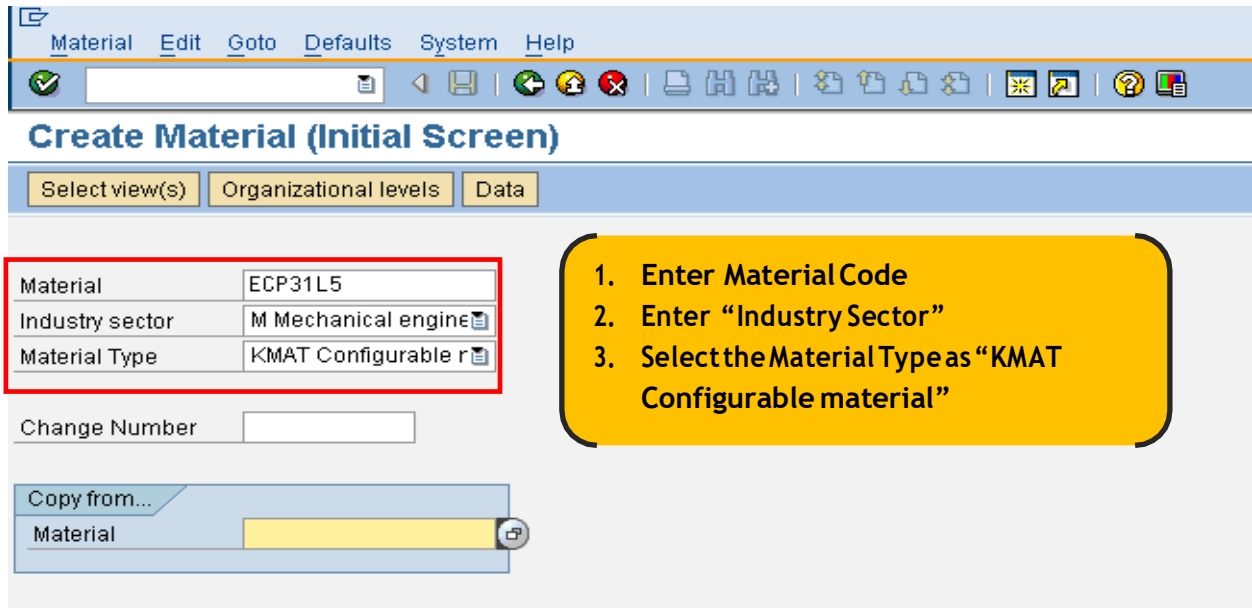
Table Maintenance

Alternator series	Stack Length	Poles	Number	Voltage (Leads)	[V]	Out from standard variation	Name Plate type	Phases	Name Plate service	Insulation Class	Cos φ	f1	Name Plate	RPM	Name
ECP3	1S	4 Poles		115/230 V - 4 Leads		Standard	ECP 3-1S/4	1	S1	H	0.8	1500		23	
ECP3	2S	4 Poles		115/230 V - 4 Leads		Standard	ECP 3-2S/4	1	S1	H	0.8	1500		23	
ECP3	1L	4 Poles		115/230 V - 4 Leads		Version 01	ECP 3-1L/4	1	S1	H	0.8	1500		23	
ECP3	2L	4 Poles		115/230 V - 4 Leads		Standard	ECP 3-2L/4	1	S1	H	0.8	1500		23	
ECP3	3L	4 Poles		115/230 V - 4 Leads		Version 02	ECP 3-3L/4	1	S1	H	0.8	1500		23	
ECO 28	SN	4 Poles		115/230 V - 4 Leads		Standard	ECO 28-SN/4	1	S1	H	0.8	1500		23	
ECO 28	1LN	4 Poles		115/230 V - 4 Leads		Version 01	ECO 28-1LN/4	1	S1	H	0.8	1500		23	
ECO 28	1LN	4 Poles		115/230 V - 4 Leads		Version 02	ECO 28-1LN/4	1	S1	H	0.8	1500		23	
ECO 28	2LN	4 Poles		115/230 V - 4 Leads		Version 01								23	
ECO 28	2LN	4 Poles		115/230 V - 4 Leads		Version 02								23	
ECO 28	VL	4 Poles		115/230 V - 4 Leads		Standard								23	

1. Maintain the correct and unique combination data for the characteristics
2. Press (Save)

11. Create Configurable Material Master (MM01)

(Logistics Materials Management Material Master Material Create 
MM01 - Immediately)



Create Material (Initial Screen)

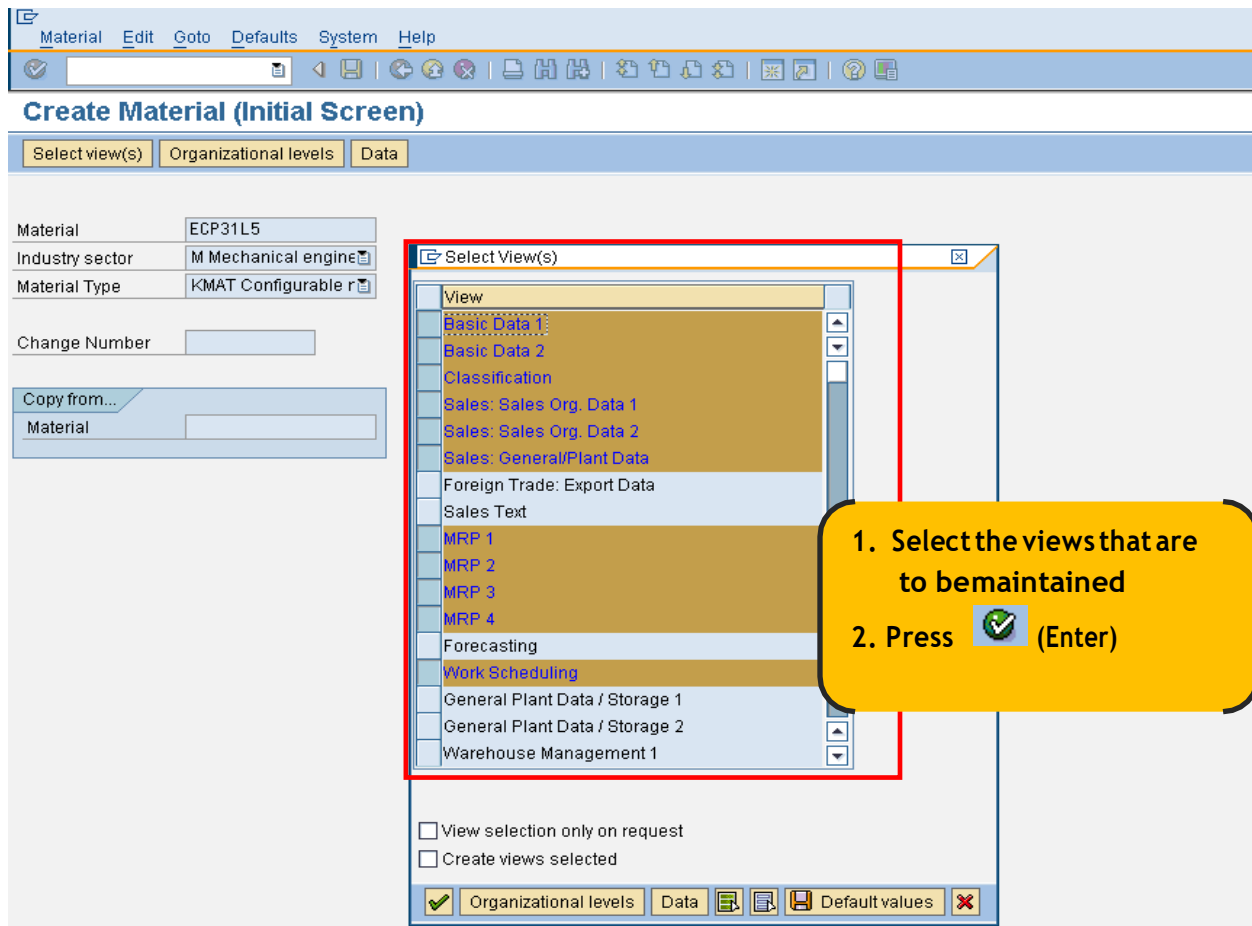
Select view(s) Organizational levels Data

Material	ECP31L5
Industry sector	M Mechanical engine
Material Type	KMAT Configurable r

Change Number

Copy from...
Material

1. Enter Material Code
2. Enter "Industry Sector"
3. Select the Material Type as "KMAT Configurable material"



Create Material (Initial Screen)

Select view(s) Organizational levels Data

Material	ECP31L5
Industry sector	M Mechanical engine
Material Type	KMAT Configurable r

Change Number

Copy from...
Material

Select View(s)

- Basic Data 1
- Basic Data 2
- Classification
- Sales: Sales Org. Data 1
- Sales: Sales Org. Data 2
- Sales: General/Plant Data
- Foreign Trade: Export Data
- Sales Text
- MRP 1
- MRP 2
- MRP 3
- MRP 4
- Forecasting
- Work Scheduling
- General Plant Data / Storage 1
- General Plant Data / Storage 2
- Warehouse Management 1

View selection only on request
 Create views selected

Organizational levels Data Default values

1. Select the views that are to be maintained
2. Press (Enter)

Material Edit Goto Defaults System Help

Material ECP31L5

Create Material (Initial Screen)

Select view(s) Organizational levels Data

Material ECP31L5

Industry sector M Mecc

Material Type KMAT

Change Number

Copy from... Material

Organizational Levels

Organizational levels

Plant BP01 Mecc Alte India Plant, Pune

Stor. Location 2113

Sales Org. BP01

Distr. Channel 01

Profiles

MRP profile

Org. levels/profiles only on request

Select view(s) Default values

1. Enter Organizational Levels data
2. Press (Enter)

Material Edit Goto Environment System Help

Material ECP31L5

Create Material ECP31L5 (Configurable materials)

Additional data Organizational levels Check screen data

Basic data 1 Basic data 2 Classification Sales: sales org. 1

Material ECP31L5 **ALTERNATOR ECO 31-5L**

General data

Base Unit of Measure NOS

Material Group EC0311L2

Old material number

Division

Product allocation

X-plant matl status

Assign effect. vals

Ext. Matl Group

Lab/Office

Prod.hierarchy

Valid from

GenItemCatGroup 0002 Configuration

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight

Net Weight

Volume

Size/dimensions

EAN/UPC

Weight unit K6

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

1. Maintain Material Code Description
2. Enter Base unit of Measure
3. Select Material Group
4. Go to "Basic Data 2" View

Material Edit Goto Environment System Help

Create Material ECP31L5 (Configurable materials)

Additional data Organizational levels Check screen data

Basic data 1 Basic data 2 Classification Sales: sales org. 1

Material ECP31L5 ALTERNATOR ECO 31-5L

Other Data
 Prod./insp. memo Ind. Std Desc.
 Page format CAD Indicator
 Basic material

Environment
 DG indicator profile
 Highly viscous

Design documents assigned
 No

Design Drawing
 Document Document type Doc.vers.
 Page number Doc.ch.no. Page format No. sheets

Client-specific configuration
 Cross-plant CM Material is configurable
 Variant

1. Check tick mark for "Material is configurable"

Material Edit Goto Environment System Help

Create Material ECP31L5 (Configurable materials)

Additional data Organizational levels Check screen data

MRP 2 MRP 3 MRP 4 Forecasting Work scheduling

Material ECP31L5 ALTERNATOR ECO 31-5L
 Plant BP01 Mecc Alte India Plant, Pune

Forecast Requirements
 Period Indicator M Fiscal Year Variant Splitting indicator

Planning
 Strategy group 25
 Consumption mode Bwd consumption per.
 Fwd consumption per. Mixed MRP
 Planning material Planning plant
 PIng conv. factor Planning matl BUnit

Availability check
 Availability check 02
 Cross-project

Plant-specific configuration
 Configurable Material
 Variant
 Planning variant

1. Maintain Strategy group 25 (Make-to-order for configurable material)
2. Enter Availability check indicator "02"
3. Also maintain all relevant data on each selected screen
4. Save the Material Master

Material ECP31L5 created

