

Variant Configuration User Manual

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Purpose

User manual provides the configuration guide and application of variant configuration in Production Planning.

Scenario

Scenario demonstrates the MTO variant configuration with characteristic parameter entry in the sales order, transfer of requirements from the sales order to MRP, conversion of planned orders to production orders and selection of appropriate materials and operations from the super BOMs and super routings and finally creating deliveries to the finished product.

Certain configurable material characteristics and its values are displayed in the sales order based on the preceding characteristics values.

Configuration

Create Characteristics

Create the characteristics for the selection parameters of the variant with Data Type CHAR or NUM for calculations

The screenshot shows the 'Change Characteristic' dialog box in SAP. The 'Basic data' tab is active. The 'Characteristic' field is set to 'CAR_COLOR'. The 'Valid From' date is '17.02.2012'. The 'Description' is 'Color'. The 'Chars Group' is '1 Released'. The 'Data Type' is 'CHAR Character Format'. The 'Number of Chars' is '28'. The 'Value Assignment' is 'Single Value'. The 'Entry Required' checkbox is checked.

Change Characteristic	
Characteristic	CAR_COLOR
Change Number	
Valid From	17.02.2012
Validity	
Basic data Descriptions Values Addnl data Restrictions	
Basic data	
Description	Color
Chars Group	1 Released
Status	
Auth Group	
Format	
Data Type	CHAR Character Format
Number of Chars	28
Case Sensitive	☐
Template	
Value Assignment	
Single Value	☒
Multiple Values	☐
Restrictable	☐
Entry Required	☒

Assign Values

Characteristic: CAR_COLOR 

Change Number:

Valid From: 17.02.2012

Basic data | Descriptions | **Values** | Addnl data | Restrictions

☐ Additional Values

Allowed Values

Char. Value	Description	D	O	S
B	Black	☐	☐	☐
S	Silver	☐	☐	☐
R	Red	☐	☐	☐
Y	Yellow	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Create Class

Class Type 300 and 200

Class Type 300

Create class type 300 for variant entry

Change Class:

Change Language

Class: CAR_SPECS

Class type: 300 Variants

Change Number:

Valid from: 17.02.2012

Validity

Basic data Keywords Char. Texts Document Std

Basic data

Description: Car Specifications

Status: 1 Released

Class group:

Organizational area:

Valid From: 10.02.2012

Valid to: 31.12.9999

Local class: ☐

Same classification

☒ Do not check

☐ Warning message

☐ Check with error

Authorizations

Class maintenance: ☐

Classification: ☐

Find object: ☐

Administrative data

Change Class:

Change Language

Class: CAR_SPECS

Class type: 300 Variants

Change Number:

Valid from: 17.02.2012

Validity

Basic data Keywords Char. Texts Document Std

Char.	Description	Data	N	D	Unit	R	Org. Areas	Std	O
CAR	Car Model Type	CHAR	20	0		☐			☐
CAR_COLOR	Color	CHAR	20	0		☐			☐
BULB_COLOR	Bulb Color	CHAR	20	0		☐			☐
ENGINE	Engine Displacement	CHAR	20	0		☐			☐
						☐			☐
						☐			☐
						☐			☐
						☐			☐
						☐			☐
						☐			☐

Class Type 200

Create Class Type 200 for mentioning parameters for configurable materials

Class: BULB_COLOR
Class type: 200 Material (configurable objects)
Change Number:
Valid from: 17.02.2012 Validity

Basic data Keywords Char. Texts Document Std Addnl data

Basic data
Description: Bulb Variants items
Status: 1 Released
Class group:
Organizational area:
Valid From: 13.02.2012 Valid to: 31.12.9999
☐ Local class

Same classification
☒ Do not check
☐ Warning message
☐ Check with error

Authorizations
Class maintenance: ☐
Classification: ☐
Find object: ☐

Administrative data

Change Language

Class: BULB_COLOR
Class type: 200 Material (configurable objects)
Change Number:
Valid from: 17.02.2012 Validity

Basic data Keywords **Char.** Texts Document Std Addnl data

Char.	Description	Data	N	D	Unit	R	Org. Areas	Std	O	I	Origin
BULB_COLOR	Bulb Color	CHAR	20	0		☐			☐	☐	
						☐			☐	☐	
						☐			☐	☐	
						☐			☐	☐	

Select 'Allowed in BOMs indicator', enter Base Unit of measure and Resultant item Category 'L'

Basic data Keywords Char. Texts Document Std **Addnl data**

Use of class
☒ Allowed in BOMs
Low-level code: 001

Default data for component
Base Unit of Measure: PC
Res. item category: L
Organizational area:
☒ Required Component
☒ Multiple Selection

Creating a configurable material

Configurable material can be created in following ways

- a) Mark configurable indicator in BASIC DATA 2 for material types FERT or HALB
- b) Create a material with material type KMAT

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

Material CAR Car

Other Data

Prod./insp. memo Ind. Std Desc.

Page format ☐ CAD Indicator

Basic material

Environment

DG indicator profile ☐ Environmentally rvt

DG Packaging Status ☐ In bulk/liquid

Packaging Code ☐ Highly viscous

Design documents assigned

☒ No link

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

Assign class type 300 for finished and semi-finished materials

Classification

Object

Material CAR Car

Class Type 300 Variants

Assignments

Class	Description	Sta	Itm
CAR_SPECS	Car Specifications	☐	10

Entry 1 / 1

Values for Class CAR_SPECS - Object CAR

General

Characteristic	Description	Value
☐	Car Model Type	
☐	Color	
☐	Bulb Color	
☐	Engine Displacement	

Classification | Sales: sales org. 1 | Sales: sales org. 2 | Sales: G...

Material: CAR | Car
Sales Org.: 1000 | Germany Frankfurt
Distr. Chl: 10 | Final customer sales

General data

Base Unit of Measure: EA | Each | Division: ☐
Sales unit: ☐ | ☐ Sales unit not var.
Unit of Measure Grp: ☐
X-distr.chain status: ☐ | Valid from:
DChain-spec. status: ☐ | Valid from:
Delivering Plant:
Material Group: 00108 | Engines
☒ Cash discount | Conditions

Tax data

C...	Country	Tax...	Tax category	T	Tax classification
DE	Germany	MWST	Output Tax	0	No tax

Entry 1 of 1

Set item category grp as '0002'

Sales: sales org. 1 | Sales: sales org. 2 | Sales: General/Plant | Forei...

Material: CAR | Car
Sales Org.: 1000 | Germany Frankfurt
Distr. Chl: 10 | Final customer sales

Grouping terms

Matl statistics grp: ☐ | Material pricing grp: ☐
Volume rebate group: ☐ | Acct assignment grp: ☐
Gen. item cat. grp: ☐ | Item category group: 0002 Configuration
Pricing Ref. Matl:
Product hierarchy:
Commission group: ☐

Material groups

Material group 1: ☐ | Material group 2: ☐ | Material group 3: ☐
Material group 4: ☐ | Material group 5: ☐

Product attributes

☐ Product attribute 1 | ☐ Product attribute 2 | ☐ Product attribute 3
☐ Product attribute 4 | ☐ Product attribute 5 | ☐ Product attribute 6
☐ Product attribute 7 | ☐ Product attribute 8 | ☐ Product attribute 9
☐ Product attribute 10

Sales text				MRP 1	MRP 2	MRP 3	MRP 4	Work sched...
Material	CAR	Car						
Plant	1000	Werk Hamburg						
General Data								
Base Unit of Measure	EA	Each	MRP group	0031				
Purchasing Group			ABC Indicator					
Plant-sp.matl status			Valid from					
MRP procedure								
MRP Type	PD	MRP						
Reorder Point			Planning time fence					
Planning cycle			MRP Controller	001				
Lot size data								
Lot size	EX	Lot-for-lot order quantity						
Minimum Lot Size		Maximum Lot Size						

Material	CAR	Car					
Plant	1000	Werk Hamburg					
Procurement							
Procurement type	E	Batch entry					
Special procurement		Prod. stor. location					
Quota arr. usage		Default supply area					
Backflush	1	Storage loc. for EP					
JIT delivery sched.		Stock det. grp					
☐ Co-product		Joint production					
☐ Bulk Material							
Scheduling							
In-house production		days	Planned Deliv. Time		days		
GR Processing Time		days	Planning calendar				
SchedMargin key	000						
Net requirements calculation							
Safety Stock		Service level (%)					
Min safety stock		Coverage profile					
Safety time ind.		Safety time/act.cov.		days			
STime period profile							

Set Strategy Group as '25' Make to Order for configurable material

Set Availability Check to '02' Individual Requirements

MRP 2 MRP 3 MRP 4 Work scheduling Accounting 1

Material: CAR Car
Plant: 1000 Werk Hamburg

Forecast Requirements
Period Indicator: M Fiscal Year Variant: Splitting Indicator:

Planning
Strategy group: 25 Make-to-order for configurable material
Consumption mode: Bwd consumption per.:
Fwd consumption per.: Mixed MRP:
Planning material: Planning plant:
Plng conv. factor: Planning matl BUnit:

Availability check
Availability check: 02 Tot. repl. lead time: days
Cross-project:

Plant-specific configuration

Set BOM explosion/dependent requirements to '1'

MRP 3 MRP 4 Work scheduling Accounting 1 Accounting 2

Material: CAR Car
Plant: 1000 Werk Hamburg
Stor. Loc.: 0001 Materiallager

BOM explosion/dependent requirements
Selection method: 1 Component scrap (%):
Individual coll.: Requirements group:
Version Indicator: ProdVersions MRP dep.requirements:

Discontinued parts
Discontin. ind.: Eff-out: Follow-up matl:

Repetitive manufacturing / assembly / deployment strategy
Repetitive mfg: REM profile: Action control:
Fair share rule: Push distribution: Deployment horizon:

Average plant stock: Material memo: Material memo exists:

Storage location MRP
SLoc MRP indicator: Spec. proc. type: SLoc:
Reorder point: Replenishment qty:

MRP 4 Work scheduling Accounting 1 Accounting 2 Costing 1

Material: CAR Car
Plant: 1000 Werk Hamburg

General Data

Base Unit of Measure	EA	Each	Unit of issue	
Production unit			P-S matl status	Valid from
Prodn Supervisor			Prod.stor.loc.	
Prod.Sched.Profile			Mat. Grouping	
Serial no. profile	AM01	SerLevel	Overall profile	
☐ Insp.stock	☐ Critical Part	☐ Version Indicator	☒ ProdVersions	
☐ OB Management	☐ Batch rec. req.	☐ Batch entry	☐ BatchManagement	
		OB ref. material		

Tolerance data

Underdely tol. percent Overdely tol. percent ☐ Unlimited

In-house production time in days

Lot size dependent Lot size independent

Setup time Interoperation InhseProdTime

Processing time Base quantity

Work scheduling Accounting 1 Accounting 2 Costing 1 Costing 2

Material: CAR Car
Plant: 1000 Werk Hamburg

General data

Base Unit of Measure	EA	Each	Valuation Category	
Currency	EUR		Current period	02 2012
Division			Price determ.	☐ ML act

Current valuation

Valuation Class	7925	Proj. stk val. class	
VC: Sales order stk		Price Unit	1
Price control	S	Standard price	110.00
Moving price		Total Value	0.00
Total Stock	0	☐ Valuated Un	
Future price		Valid from	

Previous period/year Std cost estimate

Material with Class Type 200

Class Type is assigned directly to raw materials with mentioning the variant parameters in the material master and this class will be used as selection condition

The screenshot displays the SAP Material Master configuration interface for a material with Class Type 200. The interface is organized into several tabs: Basic data 1, Basic data 2, Classification, Purchasing, and Foreign tr... The 'Basic data 2' tab is currently active. The material number is 'Z80-100Y' and the description is 'Light Bulb 220/235V 80 watt clear'. The 'Other Data' section includes fields for 'Ind. Std Desc.' and a 'CAD Indicator' checkbox. The 'Environment' section contains fields for 'DG indicator profile', 'DG Packaging Status', and 'Packaging Code', along with checkboxes for 'Environmentally rht', 'In bulk/liquid', and 'Highly viscous'. The 'Design documents assigned' section has a 'No link' checkbox. The 'Design Drawing' section includes fields for 'Document', 'Page number', 'Doc.ch.no.', 'Document type', 'Page format', 'Doc.vers.', and 'No. sheets'. The 'Client-specific configuration' section features a 'Cross-plant CM' field, a 'Material is configurable' checkbox, and a 'Configure variant' button. A 'Variant' checkbox is also present.

Tab	Field	Value
Basic data 1	Material	Z80-100Y
	Description	Light Bulb 220/235V 80 watt clear
Basic data 2	Ind. Std Desc.	
	CAD Indicator	☐
	Basic material	
	DG indicator profile	
	DG Packaging Status	
	Packaging Code	
	Environmentally rht	☐
	In bulk/liquid	☐
	Highly viscous	☐
	No link	☒
Design Drawing	Document	
	Page number	
	Doc.ch.no.	
	Document type	
	Page format	
	No. sheets	
Client-specific configuration	Cross-plant CM	
	Material is configurable	☐
	Configure variant	Configure variant

Classification

Object

Material: Z80-100Y Light Bulb 220/235V 80 watt clear

Class Type: 200 Material (configurable objects)

Assignments

Class	Description	Sta	S	Icon	Item
BULB_COLOR	Bulb Variants items	☐	1	☒	10

Entry 1 / 1

Values for Class BULB_COLOR - Object Z80-100Y

General

Characteristic	Description	Value
Bulb Color	Yellow Color	

Inconsistent

MRP 2 MRP 3 MRP 4 Accounting 1 Accounting 2 Co...

Material: Z80-100Y Light Bulb 220/235V 80 watt clear

Plant: 1000 Werk Hamburg

Forecast Requirements

Period Indicator: M Fiscal Year Variant: Splitting Indicator:

Planning

Strategy group: 25 Make-to-order for configurable material

Consumption mode: Bwd consumption per.:

Fwd consumption per.:

Planning material: Planning plant:

Plng conv. factor: Planning matl BUnit:

Availability check

Availability check: 02 Tot. repl. lead time: days

Cross-project:

Plant-specific configuration

ConfigurableMaterial:

Variant: Configure variant

Planning variant: Configure planning variant

Create a Super BOM

Create a BOM with all possible materials present in variant materials

Change material BOM: General Item Overview

SAP



Change material BOM: General Item Overview

Subitems New entries Header Validity

Material: CAR Car
Plant: 1000 Werk Hamburg
Alternative BOM: 1

Material Document Class General

Item	ICt	Component	Component description	Quantity	Un	OD	As	Sl	Valid From	Valid to	Change No.	Ph	SortStrng	Item ID
0010	L	ENGINE1800	Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999		☐		000000
0020	L	ENGINE2000	Engine 2000 CC	2	EA	☒	☐	☐	13.02.2012	31.12.9999		☐		000000
0030	L	ENGINE3000	Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999		☐		000000
0040	L	ENGINE3500V	Engine 3500 CC V cylinder	1	EA	☒	☐	☐	13.02.2012	31.12.9999		☐		000000
0060	L	SEATS	Seat Assembly	1	PAC	☐	☒	☐	13.02.2012	31.12.9999		☐		000000
0070	K		Bulb Variants items	1	PC	☐	☐	☐	13.02.2012	31.12.9999		☐		000000
0080	L					☐	☐	☐				☐		
0090	L					☐	☐	☐				☐		
0100	L					☐	☐	☐				☐		
0110	L					☐	☐	☐				☐		

Material: SEATS Seat Assembly
Plant: 1000 Werk Hamburg
Alternative BOM: 1

Material Document Class General

Item	ICt	Component	Component description	Quantity	Un	OD	As	Sl	Valid From	Valid to
0010	L	ZAM2-830-F	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99
0020	L	ZAM2-830-H	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99
0030	L	ZAM2-820-H	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99
0040	L	ZAM2-820-F	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99
0050	L	ZAM2-840-F	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99
0060	L	ZAM2-840-H	BACK-SEAT VELOUR BEK	1	PC	☒	☐	☐	13.02.2012	31.12.99

Assign Class Type 200 for selection of variant materials

Change material BOM: General Item Overview

Material: CAR Car
Plant: 1000 Werk Hamburg
Alternative BOM: 1

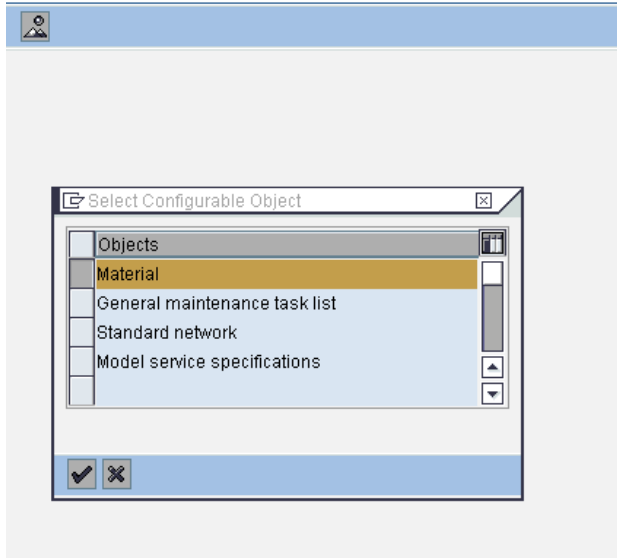
Material Document Class General

Item	ICt	R	Ty	Class	Component description	Quantity	Un	OD	As	Sls	Valid From	Valid to	Item ID
0010	L				Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999	0000000
0020	L				Engine 2000 CC	2	EA	☒	☐	☐	13.02.2012	31.12.9999	0000000
0030	L				Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999	0000000
0040	L				Engine 3500 CC V cylinder	1	EA	☒	☐	☐	13.02.2012	31.12.9999	0000000
0060	L				Seat Assembly	1	PAC	☐	☒	☐	13.02.2012	31.12.9999	0000000
0070	K	L	200	BULB_COLOR	Bulb Variants items	1	PC	☐	☐	☐	13.02.2012	31.12.9999	0000000

Create Configuration Profile

Create configuration profile for the materials using CU41 Transaction

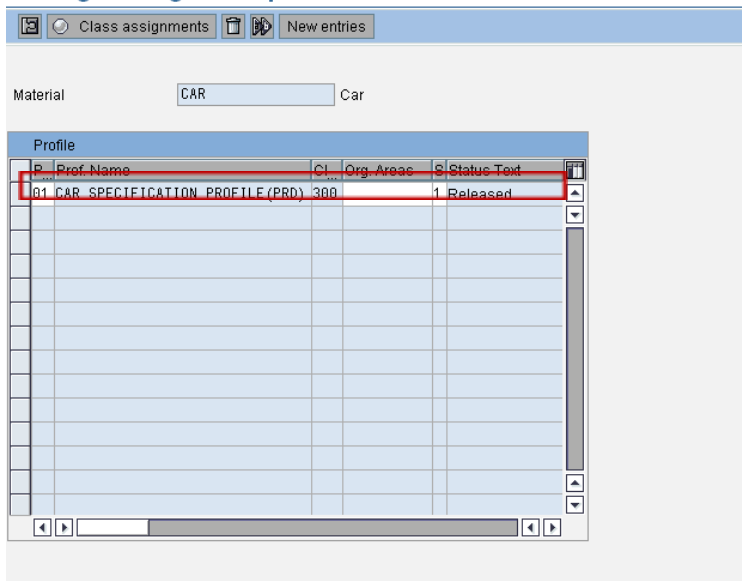
Change Configuration Profile: Initial Screen



Enter Profile Priority, Profile name and class type 300 and set to 'released' status

Double click on Profile for detailed data entry

Change Configuration profile for material: Profile Overview



Change Configuration profile for material: Detail Screen

Administrative data...

Material: CAR Car
Profile name: CAR SPECIFICATION PROFILE (PRD)

Basic data | **Confign initial screen**

Class Type: 300 Variants ☐ Class Assignment
Org. Area:
Status: 1 Released
Valid From:
☒ Start Logo

Go to Confign initial screen

Set Configuration Parameters to **Plnd/Prod Order** BOM Explosion to **Multilevel**

Application to **PP01 Production General**

Change Configuration profile for material: Detail Screen

Administrative data...

Material: CAR Car
Profile name: CAR SPECIFICATION PROFILE (PRD)

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

Parameters for BOM Explosion

Application: PP01 Production - general

Order Functions

- ☒ Component Availability

Level of Detail

- ☒ Only Configurable Assemblies

Similarly a configuration profile for material seats is created

Change Configuration Profile for Material: Initial Screen

Change configurable obj.

Material: seats

Effectivity

Change number:

Valid from: 17.02.2012

Change Configuration profile for material: Profile Overview

Material: SEATS Seat Assembly

Profile

P	Prof. Name	Cl.	Org. Areas	S	Status Text
01	PROFILE FOR SEATS	300		1	Released

Change Configuration profile for material: Detail Screen

Administrative data...

Material: SEATS Seat Assembly

Profile name: PROFILE FOR SEATS

Basic data | Confign initial screen

Class Type: 300 Variants: ☐ Class Assignment

Org. Area:

Status: 1 Released

Valid From:

☒ Start Logo

Change Configuration profile for material: Detail Screen

Administrative data...

Material: SEATS Seat Assembly

Profile name: PROFILE FOR SEATS

Basic data | Confign initial screen

Config Parameters | UserInterf

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

Assign Object Dependencies to the items in the Super BOM

Select the material and Click on dependency indicator

Change material BOM: General Item Overview

Material: SEATS Seat Assembly
Plant: 1000 Werk Hamburg
Alternative BOM: 1

Material Document Class General

Item	ICt	Component	Component description	Quantity	Un	OD	As	Sls	Valid From	Valid to
0010	L	ZAM2-830-F	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0020	L	ZAM2-830-H	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0030	L	ZAM2-820-H	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0040	L	ZAM2-820-F	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0050	L	ZAM2-840-F	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0060	L	ZAM2-840-H	BACK-SEAT VELOUR BEI1		PC	☒	☐	☐	13.02.2012	31.12.99
0070	L					☐	☐	☐		
0080	L					☐	☐	☐		
0090	L					☐	☐	☐		
0100	L					☐	☐	☐		

Maintain Dependency: Assignments to Objects

Dependency editor Basic data

BOM: SEATS
Item: 0010 M ZAM2-830-F L
BACK-SEAT VELOUR BEIGE

Assignments

Sort	Dep	Description	S. Dep. Type
	BEIGE	Seats beige	1 Sel. cond

Enter the dependency characteristic value

Here the characteristic is SEAT_COLOR with value BE and \$PARENT refers final parent material of multilevel BOM in general but not material specific.

Relationship
Edit
Goto
System
Help

Display Dependency

Sel. condition
BEIGE
Seats beige

BOM
SEATS

Item
0010
M
ZAM2-830-F
L

BACK-SEAT VELOUR BEIGE

.....+.....1.....+.....2.....+.....3.....+.....4.....+.....5.....+.....6.....+.....7...

Source Code

000010 \$PARENT.SEAT_COLOR = 'BE'

Select the parent material BOM and select the items and assign the object dependencies

Change material BOM: General Item Overview

✓ ◀ 📁 ↶ 👤 ✕ 📄 H H 🔄 📄 📄 📄 🔍 🖨 ? 📄

Change material BOM: General Item Overview

📄 📄 📄 📄 👤 Subitems New entries 🗑 🔄 📄 Header 🔍 Validity

Material Car
 Plant Werk Hamburg
 Alternative BOM

Material Document Class General

Item	ICt	Component	Component description	Quantity	Un	OD	As	Sls	Valid From	Valid to
0010	L	ENGINE1800	Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999
0020	L	ENGINE2000	Engine 2000 CC	2	EA	☒	☐	☐	13.02.2012	31.12.9999
0030	L	ENGINE3000	Engine 1800 CC	1	EA	☒	☐	☐	13.02.2012	31.12.9999
0040	L	ENGINE3500V	Engine 3500 CC V cylinder	1	EA	☒	☐	☐	13.02.2012	31.12.9999
0060	L	SEATS	Seat Assembly	1	PAC	☐	☒	☐	13.02.2012	31.12.9999
0070	K		Bulb Variants items	1	PC	☐	☐	☐	13.02.2012	31.12.9999
0080	L					☐	☐	☐		
0090	L					☐	☐	☐		
0100	L					☐	☐	☐		
0110	L					☐	☐	☐		
0120	L					☐	☐	☐		

Maintain Dependency: Assignments to Objects

Dependency editor Basic data  

BOM CAR

Item 0010 M ENGINE1800 L
Engine 1800 CC

Assignments

Sort	Dep.	Description	S. Dep. Type
	S1800	Dependencies for Engine 1800	1 Sel. conc

The condition for object dependency for the engine selection requires two conditions

Edit Dependency

Edit Dependency

     Continue Replace Concatenate Split

Sel. condition S1800 Dependencies for Engine 1800

BOM CAR

Item 0010 M ENGINE1800 L
Engine 1800 CC

.....1.....2.....3.....4.....5.....6.....7..

Source Code

```
000010 CAR = 'STANDARD' AND ENGINE = '1800'
```

Material BOM Edit Goto Extras Environment Settings System Help

Change material BOM: General Item Overview

Subitems New entries Header Validity

Material: CAR Car
Plant: 1000 Werk Hamburg
Alternative BOM: 1

Material Document Class General

Item	ICt	Component	Component description	Quantity	Un	C
0010	L	ENGINE1800	Engine 1800 CC	1	EA	
0020	L	ENGINE2000	Engine 2000 CC	2	EA	
0030	L	ENGINE3000	Engine 1800 CC	1	EA	
0040	L	ENGINE3500V	Engine 3500 CC V cylinder	1	EA	
0060	L	SEATS	Seat Assembly	1	PAC	
0070	K		Bulb Variants items	1	PC	

Relationship Edit Goto System Help

Edit Dependency

Continue Replace Concatenate Split

Sel. condition: S3500 Dependencies for Engine 3500
BOM: CAR
Item: 0040 M ENGINE3500V L
Engine 3500 CC V cylinder

Source Code

000010 CAR = 'SPORTS'

The Characteristic ENGINE has to be displayed only when the CAR model is selected to STANDARD to give options for choosing 1800CC or 2000CC displacement capacity.

The 2000CC displacement capacity engine has to be chosen only when the STANDARD model color is BLACK

Select the object dependency indicator in the Basic Data Tab

Change Characteristic

Characteristic: ENGINE
Change Number:
Valid From: 17.02.2012
Validity

Basic data | Descriptions | Values | Addnl data | Restrictions

Basic data

Description: Engine Displacement
Chars Group: BIKE bike
Status: 1 Released
Auth.Group:

Format

Data Type: CHAR Character Format
Number of Chars: 20
☐ Case Sensitive
Template:

Value Assignment

☒ Single Value
☐ Multiple Values
☐ Restrictable
☐ Entry Required

Create Precondition and Selection Condition dependencies

Maintain Dependency: Assignments to Objects

Dependency editor Basic data

Characteristic: ENGINE Engine Displacement

Sort	Dep	Description	St Den Type
	CHAR DI FOR MODEL1	Characteristic Display for Eng	1 Precond
	CHAR DI FOR MODEL1	Characteristic Display for Eng	1 Sel. cont

For precondition dependency select PRECONDITION option and the Status is initially set to **2 'In Preparation'**

Click **Dependency Editor**.

Change Dependency: Basic Data

Dependency editor Descriptions

Characteristic: ENGINE Engine Displacement

Dependency: CHAR DI FOR MODEL ☐ SCE Format

General Data

Description: Characteristic Display for Eng ☐ Documentation

Status: 1 Released

Dependency Group:

Maintenance Auth.:

Dependency Type

☒ Precondition ☐ Action ☐ Constraint

☐ Selection condition ☐ Procedure ☐ Rule

Administrative Data

Created By: IDS_PPFUNC01 Created On: 10.02.2012

Changed By: IDS_PPFUNC01 Changed On: 10.02.2012

Enter Dependency condition

Edit Dependency

Precondition: CHAR DI FOR MODEL Characteristic Display for Eng

Characteristic: ENGINE Engine Displacement

Source Code

000010 CAR = 'STANDARD'

Go to Basic Data for and set the status to **1 Released**

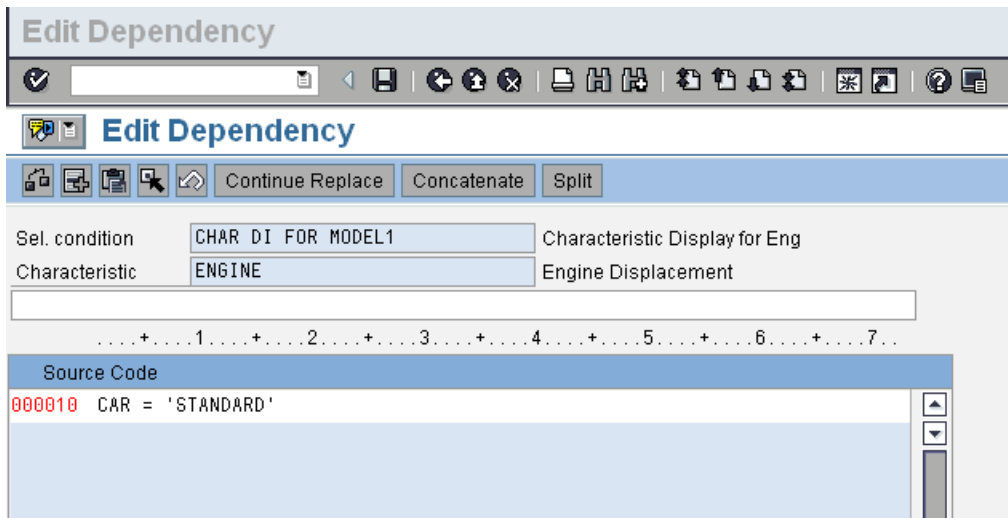
Create selection condition dependency

Maintain Dependency: Assignments to Objects

Characteristic: ENGINE Engine Displacement

Sort	Dep.	Description	S Dep. Type
	CHAR DI FOR MODEL	Characteristic Display for Eng	1 Precond
	CHAR DI FOR MODEL 1	Characteristic Display for Eng	1 Sel cond

Go to Basic Data and choose **Selection Condition** option and assign dependency values



Assigning Preconditions to ENGINE characteristic values to display the values based on the model and color characteristics

Select a value

Change Characteristic

Characteristic: ENGINE
Change Number:
Valid From: 20.02.2012 Validity

Basic data | Descriptions | **Values** | Addnl data | Restrictions

☐ Additional Values Other Value Check

Char. Value	Description	D	C	S
1800	1800 CC	☐	☒	☐
2000	2000 CC	☐	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Entry 1 of 2

Maintain Precondition dependency for the characteristic value 1800CC

Maintain Dependency: Assignments to Objects

Dependency editor | Basic data

Characteristic: ENGINE Engine Displacement
Char. Value: 1800 1800 CC

Sort	Dep.	Description	S	Dep. Type
	ENGINE1800	Dependencies for Engine 1800	1	Precond.

```
000010 CAR = 'STANDARD'
```

☐ Additional Values[illegible]

In order to display the characteristic value 2000CC the user must select first STANDARD model and COLOR as Black

Edit Dependency

Continue Replace Concatenate Split

Precondition	ENGINE2000	Dependencies for Engine 2000
Characteristic	ENGINE	Engine Displacement
Char. Value	2000	2000 CC

Source Code

```
000010 CAR = 'STANDARD' AND CAR_COLOR = 'B'
```

Super Routing

All the operations required for making different possible configurations and object dependencies for appropriate operation is entered

Change Routing: Operation Overview SAP

Material: CAR, Car, Grp.Count1
Sequence: 0

Operation Overview

Op	SOp	Work ce	PInt	Co	Standard	Description	Is	P	Q	S	Pe	C	Su	Base Quantity	U	Setup	Unit	Activ
0010	MVAR1	1000	PP01			Operation 1 Luxury	☐	☐	☐	☒	☐	☐	☐	1	EA	2	MIN	142
0020	MVAR1	1000	PP01			Operation 1 Standard	☐	☐	☐	☒	☐	☐	☐	1	EA	3	MIN	142
0030	MVAR1	1000	PP01			Operation 1 Sports	☐	☐	☐	☒	☐	☐	☐	1	EA	2	MIN	142
0040							☐	☐	☐	☐	☐	☐	☐	1	EA			

Change Routing: Operation Overview SAP

Material: CAR, Car, Grp.Count1
Sequence: 0

Operation Overview

Op	SOp	Work ce	PInt	Co	Standard	Description	Is	P	Q	S	Pe	C	Su	Base Quantity	U	Setup	Unit	Activ
0010	MVAR1	1000	PP01			Operation 1 Luxury	☐	☐	☐	☒	☐	☐	☐	1	EA	2	MIN	142
0020	MVAR1	1000	PP01			Operation 1 Standard	☐	☐	☐	☒	☐	☐	☐	1	EA	3	MIN	142
0030	MVAR1	1000	PP01			Operation 1 Sports	☐	☐	☐	☒	☐	☐	☐	1	EA	2	MIN	142
0040							☐	☐	☐	☐	☐	☐	☐	1	EA			
0050							☐	☐	☐	☐	☐	☐	☐	1	EA			
0060							☐	☐	☐	☐	☐	☐	☐	1	EA			

Edit Dependency

Edit Dependency

Continue Replace Concatenate Split

Sel. condition	LUXURY	Dependencies for Luxury Cars
----------------	--------	------------------------------

Material	CAR	Car	Grp. Count
----------	-----	-----	------------

Oper./Act.	0010	/		Operation 1	Sequence	0
------------	------	---	--	-------------	----------	---

.....+.....1.....+.....2.....+.....3.....+.....4.....+.....5.....+.....6.....+.....7.....

```
000010 CAR = 'LUYUHV'
```

000010 CAR - LOUORI

Routing Change: Material Component Overview

Routing Change: Material Component Overview

Material	CAR	1000	Car
----------	-----	------	-----

Group	50001316	Sequence	0	Card
-------	----------	----------	---	------

BOM 00003152 Alt.BOM 1

Item Overview												
P	Le	Path	Item	Component	Quantity	Sort String	U	It	R	Order	Seq	CM
☐	0	0	0010	ENGINE1800	1		EA	L	☒	0020	0	En
☐	0	0	0020	ENGINE2000	2		EA	L	☒	0020	0	En
☐	0	0	0030	ENGINE3000	1		EA	L	☒	0010	0	En
☐	0	0	0040	ENGINE3500V	1		EA	L	☒	0030	0	En
☐	0	0	0060	SEATS	1		PAC	L				Se
☐	1	1	0070	BULB_COLOR	1		PC	K				BlBu

Object Dependencies for the super routing for sub-item configurable material

Change Routing: Operation Overview SAP

Change Routing: Operation Overview

Material SEATS Seat Assembly Grp.Count1
Sequence 0

Op	SOp	Work ce	Plnt	Cp	Standard	Description	In	P	Cl	O	Pa	C	Su	Base Quantity	U	Setup	Unit/Activ
0010	MVAR2	1000	PP01			Operation 1 Black	☐	☐	☒	☐			☐	1		PAC3	MIN 142
0020	MVAR2	1000	PP01			Operation 2 Beige	☐	☐	☒	☐			☐	1		PAC2	MIN 142
0030	MVAR2	1000	PP01			Operation 3 Gray	☐	☐	☒	☐			☐	1		PAC2	MIN 142
0040		1000					☐	☐	☐	☐			☐	1		PAC	
0050		1000					☐	☐	☐	☐			☐	1		PAC	
0060		1000					☐	☐	☐	☐			☐	1		PAC	

Display Dependency

Display Dependency

Sel. condition BLACK SEATS

Material Seat Assembly
 Oper./Act. / Sequence

.....+.....1.....+.....2.....+.....3.....+.....4.....+.....5.....+.....6.....+.....7.....

Source Code

Assign components to various operations

Routing Change: Material Component Overview **SAP**

✓

Routing Change: Material Component Overview

New Assignment **Reassign** **BOM** **Task list** **Operation**

Material Seat Assembly
 Group Sequence Seat Assembly
 BOM Alt.BOM

Item Overview

P...	Le...	Path	It...	Component	Quantity	Sort String	U...	It...	B...	Oper...	Seq...	C...	Ma...
☐	0	0	0010	ZAM2-830-F	1		PC	L	☒	0030	0	BA	▲
☐	0	0	0020	ZAM2-830-H	1		PC	L	☒	0030	0	BA	▼
☐	0	0	0030	ZAM2-820-H	1		PC	L	☒	0020	0	BA	
☐	0	0	0040	ZAM2-820-F	1		PC	L	☒	0020	0	BA	
☐	0	0	0050	ZAM2-840-F	1		PC	L	☒	0010	0	BA	
☐	0	0	0060	ZAM2-840-H	1		PC	L	☒	0010	0	BA	

Configuration Test T-Code: CU50

The screenshot shows the SAP Configuration: Initial Screen (T-Code CU50). The interface includes a menu bar with options: Configuration, Edit, Goto, View, Extras, Environment, and a search field. Below the menu bar is a toolbar with icons for save, undo, redo, and other functions. The main area is titled "Configuration: Initial Screen" and contains several input fields and sections. The "Material" field is set to "CAR" and is highlighted with a red box. The "Plant" field is set to "1000" and "Werk Hamburg". The "Basic data" section includes "Quantity" set to "1.000" and "Date" set to "20.02.2012". The "Configuration" section has two radio buttons: "Sales/distribution" (selected and highlighted with a red box) and "Engineering". The "Configuration result" section has two radio buttons: "BOM" (selected and highlighted with a red box) and "Task list".

Configuration Edit Goto View Extras Environment S

Configuration: Initial Screen

Material CAR

Plant 1000 Werk Hamburg

Basic data

Quantity 1.000

Date 20.02.2012

Configuration

☒ Sales/distribution

☐ Engineering

Configuration result

☒ BOM

☐ Task list

Enter the Characteristic values for Car and Seats and click on 

Configuration: Characteristic Value Assignment SAP

Configuration Structure: **CAR** (Status: OO) **SEATS** (Status: OO)

Material: **CAR** Car Date: **20.02.2012** Quantity: **1.000**

Char. description	Char. Value	Inf.
Car Model Type	Sport Model	
Color	Black	
Bulb Color	Clear Bulb	

Configuration: Characteristic Value Assignment SAP

Configuration Structure: **CAR** (Status: OO) **SEATS** (Status: OO)

Material: **SEATS** Seat Assembly Date: **20.02.2012**

Char. description	Char. value	Inf.
Seat Colors	Beige	

Appropriate materials for the configured materials are been selected in all the BOM levels

Configuration : Result **SAP**

Configuration : Result

Struct.

- ▼ **CAR** ✓
- ▼ **SEATS** ✓
- ▼ **Z80-100C** ✓

Material CAR **Car**

Date 20.02.2012 **Quantity** 1.000

Result

Lv	Item	Component number	Qty	Un	ICat	AGrp	ObDp	
Description								
☐	0	0000 CAR						Car
☐	1	0040 ENGINE3500V	1.000	EA	L		X	Engine 3500 CC V cylinder
☐	1	0060 SEATS	1.000	PAC	L	X		Seat Assembly
☐	1	0070 Z80-100C	1.000	PC	L			Light Bulb 220/235V 80 watt clear
☐	1	0000 SEATS						Seat Assembly
☐	2	0010 ZAM2-830-F	1.000	PC	L		X	BACK-SEAT VELOUR BEIGE
☐	2	0020 ZAM2-830-H	1.000	PC	L		X	BACK-SEAT VELOUR BEIGE

Business Process

Sales Order

Create standard sales order

The screenshot shows the 'Create Sales Order: Initial Screen' dialog box in SAP. The title bar reads 'Create Sales Order: Initial Screen'. Below the title bar is a toolbar with various icons. The main area has a tabbed interface with four tabs: 'Create with Reference', 'Sales', 'Item overview', and 'Ordering party'. The 'Sales' tab is currently selected. In the 'Sales' tab, there is a field for 'Order Type' with the value 'OR' and the text 'Standard Order' next to it. Below this is a section titled 'Organizational Data' which contains several fields: 'Sales Organization' (1000), 'Distribution Channel' (10), 'Division' (00), 'Sales Office' (empty), and 'Sales Group' (empty). To the right of these fields, the corresponding organizational data is displayed: 'Germany Frankfurt' for Sales Organization, 'Final customer sales' for Distribution Channel, and 'Cross-division' for Division.

Organizational Data		
Sales Organization	1000	Germany Frankfurt
Distribution Channel	10	Final customer sales
Division	00	Cross-division
Sales Office		
Sales Group		

Enter the item number and quantity to enter the variant configuration

Create Standard Order: Overview SAP

Create Standard Order: Overview

Standard Order: Net value: 0.00 EUR

Sold-To Party: 1454 General Distributors GmbH / Hannover Stasse 34 / D-28207 Brer

Ship-To Party: 149 Cuban Automotive Supply SA / 789 Calle Obispo / 1111 Havana

PO Number: 14911 PO date:

Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection

Req. deliv. date: D 29.02.2012 Deliver Plant: 1000 Werk Hamburg

☐ Complete div. Total Weight: 0.000

Delivery block: Volume: 0.000

Billing block: Pricing date: 20.02.2012

Payment card: Exp. date:

Card Verif. Code:

Payment terms: ZB01 14 Days 3%, 30/2%, - Incoterms: CIF Bremen

Order reason:

All items

Item	Material	Order Quantity	Un	Description	S	Customer Material Numb	ItCa	D/GI/PL Itm	D First date	Print	Batch
	car	1			☐				D 29.02.2012	1000	
					☐				D 29.02.2012		
					☐				D 29.02.2012		
					☐				D 29.02.2012		
					☐				D 29.02.2012		

Enter the parameters for the CAR variant

Create Standard Order: Characteristic Value Assignment

Car Model Type

Car Model Type

S...	Char. Value	Description	Condition
☐		No Entry	
☒	STANDARD	Standard Model	
☐	SPORTS	Sport Model	
☐	LUXURY	Luxury Model	

At the bottom of the dialog are four icons: a checkmark, a printer, a speech bubble, and a close button.

Engine Displacement Parameter is displayed but only option available is 1800CC

Engine Displacement

Char. Value	Description	Condition
☒	No Entry	
☐ 1800	1800 CC	

Case 2:

Car Model Type entered is STANDARD and Color is BLACK, the engine displacement option shows two values 1800CC and 2000CC

Create Standard Order: Characteristic Value Assignment

Sold-to party: 1454 General Distributors GmbH
Material: CAR Car
Quantity: 1 EA Item: 10
Req. deliv. date: 29.02.2012

Char. description	Char. Value	Inf.
Car Model Type	STANDARD	
Color	S	
Bulb Color		
Engine Displacement		

Color

S	Char. Value	Description	Condition
☐		No Entry	
☒	B	Black	
☐	S	Silver	
☐	R	Red	
☐	Y	Yellow	

Create Standard Order: Characteristic Value Assignment

Sold-to party: 1454 General Distributors GmbH
Material: CAR Car
Quantity: 1 EA Item: 10
Req. deliv. date: 29.02.2012

Char. description	Char. Value	Inf.
Car Model Type	STANDARD	
Color	B	
Bulb Color	RED	
Engine Displacement		

Engine Displacement

S	Char. Value	Description	Condition
☒		No Entry	
☐	1800	1800 CC	
☐	2000	2000 CC	

Display Standard Order 13331: Display Characteristic Values

Configuration Structure

Configuration Structure	Stat...
CAR	○○○
SEATS	○○○

Sold-to party 1454 **General Distributors GmbH**

Material CAR **Car**

Quantity 1 **EA** **Item** 10

Req. deliv. date 22.03.2012

Characteristic Value Assignment

Char. description	Char. Value	Inf...
Car Model Type	Sport Model	ⓘ
Color	Black	ⓘ
Bulb Color	Clear Bulb	ⓘ

After entering the seat parameters click on the  button to check for availability on the required delivery date. If the delivery date is too early then the configuration doesn't explode and select the materials

Create Standard Order: Characteristic Value Assignment

SAP

Configuration Structure

Configuration Structure	Stat...
CAR	○○○
SEATS	○○○

Material SEATS **Seat Assembly**

Date 27.02.2012

Characteristic Value Assignment

Char. description	Char. Value	Inf...
Seat Colors		ⓘ

Display Standard Order 13331: Display Characteristic Values

Display Standard Order 13331: Display Characteristic Values



Configuration Structure	Stat...
CAR	
SEATS	

Material	SEATS	Seat Assembly
----------	-------	---------------

Date 20.03.2012

Characteristic Value Assignment

[illegible]

Create Standard Order: Overview

[illegible]

Create Standard Order: Overview



Standard Order		Netvalue	0.00	EUR
Sold-To Party	1454	General Distributors GmbH / Hannover Stasse 34 / D-28207 Bremen		
Ship-To Party	149	Cuban Automotive Supply SA / 789 Calle Obispo / 1111 Havana		
PO Number	14911	PO date	13.02.2012	

Sales | Item overview | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Req. deliv.date	D 29.02.2012	Deliver Plant	1000 Werk Hamburg
☐ Complete dlv.		Total Weight	0 KG
Delivery block		Volume	0.000
Billing block		Pricing date	20.02.2012
Payment card		Exp.date	
Card Verif.Code			
Payment terms	ZB01 14 Days 3%, 30/2%, - Incoterms	CIF	Bremen
Order reason			

All Items												
Item	Material	Order Quantity	Un	Description	S	Customer Material Numb	ItCa	DGIP	HL trn	D First date	Plnt	Batch
	10 CAR		1 EA	Car	☒		TAC			00 29. 02. 2012	1000	
					☐					0 29. 02. 2012		
					☐					0 29. 02. 2012		
					☐					0 29. 02. 2012		
					☐					0 29. 02. 2012		

✓ Standard Order 13331 has been saved

MRP Run

Perform Single Item, Multi level MRP run

Single-Item, Multi-Level



Single-Item, Multi-Level

Material	CAR
MRP Area	
Plant	1000

Scope of planning

☐ Product group

MRP control parameters

Processing key	NETCH	Net change for total horizon
Create purchase req.	2	Purchase requisitions in opening period
Delivery schedules	3	Schedule lines
Create MRP list	1	MRP list
Planning mode	3	Adapt planning data (normal mode)
Scheduling	1	Basic dates will be determined for plann

Process control parameters

☒ Also plan unchanged components

☐ Display results before they are saved

☒ Display material list

☐ Simulation mode

Stock/Requirements List as of 10:42 hrs

Show Overview Tree

Material: CAR Car
MRP area: 1000 Hamburg
Plant: 1000 MRP type: PD Material Type: FERT Unit: EA

A	Date	MRP e	MRP element data	Rescheduli	E	Receipt/Reqmt	Available Qty
	20.02.2012	Stock					0
	20.02.2012	Order	0000013328/000010				0
	21.02.2012	PlOrd.	0000038319/Ord.*			10	10
	21.02.2012	Order	0000013328/000010/000			10-	0
	20.02.2012	Order	0000013329/000010				10
	22.02.2012	Order	0000013329/000010/000			10-	0
	20.02.2012	Order	0000013331/000010				0
	27.02.2012	PlOrd.	0000038459/Ord.			1	1
	27.02.2012	Order	0000013331/000010/000			1-	0

Converting all the planned orders into respective Purchase Orders and Production Orders

Stock/Requirements List as of 10:53 hrs

Hide Overview Tree

Plan order	Description	Require	Requir	Reqmt Ele	R	Rec./reqd qty	B	Receipt D	Rece	Receipt	R	Key	Error m
0000038467													
CAR	Car			PIOrd.		38467		1 EA 20.03.2012	PIOrd.			38467	
ENGINE350	Engine 3500 CC V cylinder	20.03.2012	DepReq	70871	1			1- EA 20.03.2012	PIOrd.			38468	
SEATS	Seat Assembly	20.03.2012	DepReq	70871	2			1.000- P... 20.03.2012	PIOrd.			38470	
ZAM2-83	BACK-SEAT VELOUR BEIGE	20.03.2012	DepReq	70872	1			1.000- P... 20.03.2012	PIOrd.			38472	
ZAM2-83	BACK-SEAT VELOUR BEIGE	20.03.2012	DepReq	70872	2			1.000- P... 20.03.2012	PIOrd.			38473	
Z80-100C	Light Bulb 220/235V 80 watt clear	20.03.2012	DepReq	70871	3			1.000- P... 20.03.2012	PIOrd.			38471	

Additional Data for MRP Element

Plnd order	0000038467	Make-to-order	Order finish	20.03.2012	GR ProcTime	0
Order qty	1	EA	Order start	20.03.2012	Proc. type	E
Scrap	0		Planned opening	20.03.2012	Order type	KD

-> Prod.ord -> PartConvProdOrder -> Proc.ord. -> SubProcOrd -> Pur.req.

Production Order with reference to sales order is generated for material number SEATS

Production order Create: Header									
Production order Create: Header									
Material Capacity Production Inventory Sales Purchase Transfer Scrap Info									
Order	%000000000001				Type	PP01			
Material	SEATS		Seat Assembly		Plnt	1000			
Status	CRTD MANC SETC								
General Assignment Goods Receipt Control Dates/Qties Master Data Long Text Administ									
Quantities									
Total Qty	1		PAC	Scrap portion			0.00 %		
Delivered	0		ExpectYieldVar	0					
Dates									
	BasicDates		Scheduled		Confirmd				
Finish	20.03.2012 24:00		20.03.2012 17:00						
Start	20.03.2012 00:00		20.03.2012 11:18				00:00		
Release			20.03.2012						
Sales Order									
Sales Order	13331		10	0	G.DelDate	22.03.2012		1.del.dat	22.03.2012
Ordering prty	1454		General Distributors GmbH			Bremen			
Scheduling					Floats				
Type	2 Backwards				Scheduling margin	000			
Reduction	No reduction carried out				Float bef. prod				
Note	No scheduling note				Float after pro.				
					Release period				

A Variant BOM with seat components with color BIEGE is selected and assigned to the production order

Production Order Create: Component Overview SAP

Order: %000000000001 Type: PP01
Material: SEATS Seat Assembly Plant: 1000

Filter: NO_FIL No Filter Sorting: ST_STA Standard Sort

Component Overview

Item	Component	Description	Reqmt Qty	U	It	Op	Seq	Plant	Stor	Batch	A	Bu	Ba	S	D	D	C	Ph	D	B	Tex
0010	ZAM2-830-F	BACK-SEAT VELOUR BEIGE		1	PC	L	0020 0	1000	0001												
0020	ZAM2-830-H	BACK-SEAT VELOUR BEIGE		1	PC	L	0020 0	1000	0001												
0030																					
0040																					

Appropriate Operation from super routing is assigned to the Production order

Production Order Create: Operation Overview SAP

Order: %000000000001 Type: PP01
Material: SEATS Seat Assembly Plant: 1000
Sequence: 0 0 Standard

Operation Overview

Op	SOp	Start	Start	Work Ce	Plant	Co	StdText	Operation short text	Text	SysStatus	User Stat	CO	PRT	TP	D	End	Operation Qty
0020		20.03.2012	16:55:30	MYAR2	1000	PP01		Operation 2 Beige		CRTD						20.03.2012	
0030			00:00:00		1000												

Confirming the Production order for the material SEATS

Confirmation of Production Order Enter : Actual Data

Goods Movements

Order Status: REL PRC MANC SETC
Material Number Seat Assembly

Confirmation Type
☐ Partial Confirm. ☒ Final Confirm. ☐ Aut. Final Conf. ☐ Clear Reservation

Actual Data

	Current to Confirm	Unit	Confirmed to Date	Planned t/b Conf.	Unit
Yield to conf.	1	PAC	0		1 PAC
Confirmed scrap			0		0
Rework			0		
Reason for Var.					
Personnel no.					

	To Be Confirmed	Confirmed to Date	Planned t/b Conf.
Execution start	20.02.2012 11:18:04		20.03.2012
Finish Execut.	20.02.2012 11:18:04		20.03.2012
Posting date	20.02.2012		

Production Order for the material CAR

Production order Create: Header

Order: 000000000001 Type: PP01
Material: CAR Car Pint: 1000
Status: REL MANC SETC
User Status: RLAL

General Assignment Goods Receipt Control Dates/Qties Master Data Long Text Admin

Quantities

Total Qty: 1 EA Scrap portion: 0.00 %
Delivered: 0 ExpectYieldVar: 0

Dates

	BasicDates		Scheduled		Confirmed	
Finish	20.03.2012	24:00	20.03.2012	17:00		
Start	20.03.2012	00:00	20.03.2012	11:16		00:00
Release			20.03.2012		20.02.2012	

Sales Order

Sales Order: 13331 10 0 G.DelDate: 22.03.2012 1.del.dat: 22.03.2012
Ordering prty: 1454 General Distributors GmbH Bremen

Scheduling

Type: 2 Backwards
Reduction: No reduction carried out
Note: No scheduling note

Floats

Scheduling margin: 000
Float bef. prod: Workdays
Float after pro.: Workdays
Release period: Workdays

Components for Variant Specific Production Order

Production Order Create: Component Overview



Production Order Create: Component Overview

Order: *000000000001 Type: PP01
Material: CAR Car Plant: 1000

Filter: NO_FIL No Filter Sorting: ST_STA Standard Sort

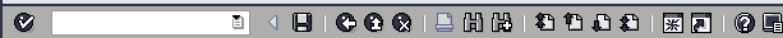
Component Overview

Item	Component	Description	Reqmt Qty	U	It	Op	Seq	Plant	Stor	Batch	A	Bu	Ba	S	D
0040	ENGINE3500V	Engine 3500 CC V cylinder	1	EA	L	0030	0	1000	0001		☐	☐	☒	1	
0060	SEATS	Seat Assembly	1	PAC	L	0030	0	1000	0001		☐	☐	☒	1	
0070	Z80-100C	Light Bulb 220/235V 80 watt clea	1	PC	L	0030	0	1000	0001		☐	☐	☒		

Variant specific operation for the CAR assigned to Production Order

Production Order Create: Operation Overview

SAP



Production Order Create: Operation Overview

Order: *000000000001 Type: PP01
Material: CAR Car Plant: 1000
Sequence: 0 0 Standard

Operation Overview

Op	SOp	Start	Start	Work Ce	Plant	Co	StdText	Operation short text	Text	SysStatus	User Stat	CO	PRT	TP	D	End	Operation C
0030		20.03.2012	16:54:23	MYAR1	1000	PP01		Operation 1 Sports		REL	BDE	☒	☐	☐	☒	20.03.2012	
0040			00:00:00		1000							☐	☐	☐	☐		
0050			00:00:00		1000							☐	☐	☐	☐		
0060			00:00:00		1000							☐	☐	☐	☐		
0070			00:00:00		1000							☐	☐	☐	☐		

After confirming all the production orders the Stock specific to sales order is available for delivery

Stock/Requirements List as of 11:50 hrs



Stock/Requirements List as of 11:50 hrs

Show Overview Tree



Material Car

MRP area Hamburg

Plant MRP type Material Type Unit

A...	Date	MRP e...	MRP element data	Rescheduli...	E...	Receipt/Reqmt	Available Qty
	20.02.2012	Stock					0
	20.02.2012	Order	0000013328/000010				0
	21.02.2012	PlOrd.	0000038319/Ord. *			10	10
	21.02.2012	Order	0000013328/000010/000			10-	0
	20.02.2012	Order	0000013329/000010				10
	22.02.2012	Order	0000013329/000010/000			10-	0
	20.02.2012	Order	0000013331/000010				1
	20.03.2012	Order	0000013331/000010/000			1-	0

Creating Outbound Delivery

Create Outbound Delivery with Order Reference

✓ [Search Icon] [Back Icon] [Forward Icon] [Refresh Icon] [Print Icon] [Help Icon] [Exit Icon]

Create Outbound Delivery with Order Reference

[With Order Reference] [W/o Order Reference] [Person Icon] [Warehouse Icon] [Delivery Icon] [Post Goods Issue]

Shipping point [1000]

Sales order data

Selection date [23.03.2012]

Order [13331]

From item []

To item []

Predefine delivery type

Delivery Type []

Creating Transfer Order for Delivery to pick the material

Create Transfer Order for Delivery Note: Initial Screen

✓ [Search Icon] [Back Icon] [Forward Icon] [Refresh Icon] [Print Icon] [Help Icon] [Exit Icon]

Create Transfer Order for Delivery Note: Initial Screen

Warehouse Number [010]

Plant [1000]

Delivery [80016232] []

Group []

Control

☒ Activate Item

Foreground/Backgmd [System-Guided] [Dropdown Icon]

Adopt Pick Quantity []

Adopt putaway qty []

Putaway TO proc. []

Create TO for Delivery: Overview Deliveries SAP

Generate TO Item

Warehouse Number Delivery Priority
 Delivery Picking Date
 Shipping Point Loading Date

Active Worklist Inactive Items Processed Items

Delivery	Item	Material	Description	SLoc	Plant	Batch	Picking quantity	Sa	2	T	Shi	D	Picki
80016232	10	CAR	Car	0001	1000		1	EA				0	

Post Goods Issue for the delivery and save the document

Delivery 80016232 Change: Overview SAP

Post Goods Issue

Outbound deliv. Document Date
 Ship-to party Cuban Automotive Supply SA / 789 Calle Obispo / 1111 Havana

Item Overview Picking Loading Transport Status Overview Goods Movement Data

Pick Date/Time OvrllPickStatus Fully picked
 Warehouse No. Lean warehouse Hamb OverallIVVMStatus WM trsf ord confirmd

Item	Material	Plant	SLoc	Deliv. Qty	Un	Picked Qty	Un	Batch	B...	P	W	Stag. Date	Matl...	Val. Type	Description
10	CAR	1000	0001	1	EA	1	EA					20.03.2012	00:00		Car

☒ Delivery 80016232 has been saved

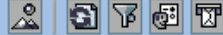
Stock Requirements List After Delivery

Stock/Requirements List as of 11:56 hrs



Stock/Requirements List as of 11:56 hrs

Show Overview Tree



Material Car
 MRP area Hamburg
 Plant MRP type Material Type Unit

A...	Date	MRP e...	MRP element data	Rescheduli...	E...	Receipt/Reqmt	Available Qty
	20.02.2012	Stock					0
	20.02.2012	Order	0000013328/000010				0
	21.02.2012	PlOrd.	0000038319/Ord.*			10	10
	21.02.2012	Order	0000013328/000010/000			10-	0
	20.02.2012	Order	0000013329/000010				10
	22.02.2012	Order	0000013329/000010/000			10-	0