

USER TRAINING MANUAL
MASTER DATA
PRODUCTION PLANNING AND CONTROL
TEMPLATE

PBCL PROJECT
SAP ERP IMPLEMENTATION ECC 6.0



SIEMENS PAKISTAN ENGINEERING COMPANY LIMITED

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1. AGREEMENT

Signing this document records your agreement to the contents of this Manual.

Name	Company	Position	Date	Signature

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2. MASTER DATA

Master data is the information that remains the same over a long period of time.
Master data contains information that is needed often and in the same form.

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3. LEGEND

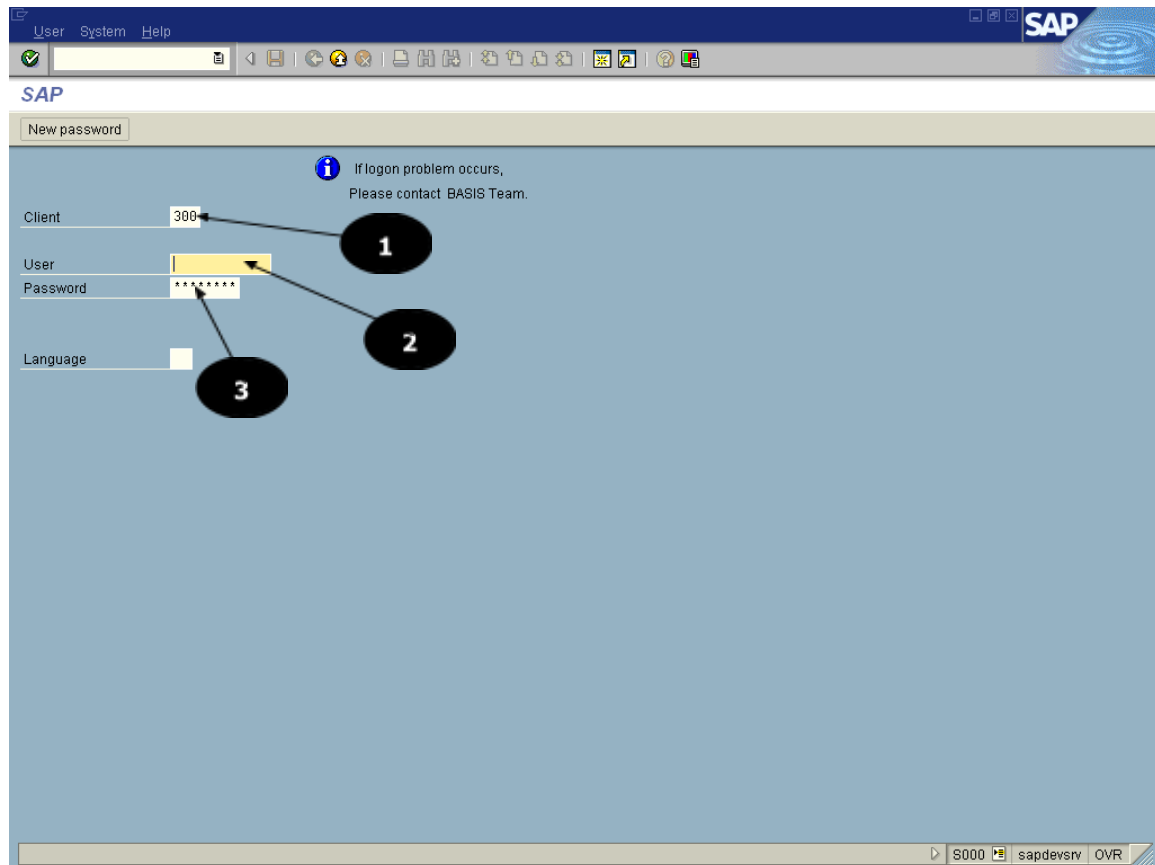
ICONS	EXPLANATION
	Create (F5)
	Change (F6)
	Display (F7)
	Copy (Shift+F9)
	Delimit (Shift+F1)
	Delete (Shift+F2)
	Overview (Shift+F8)
	Cancel (F12)
	Save (Ctrl+S)
	Back (F3)
	Exit (Shift+F3)
	Cancel screen (F12)
EXAMPLES	EXPLANATION
Base unit of measure 	The field is mandatory - it must be filled in order to proceed
Old material number 	The field is not mandatory (to be filled as per requirement)

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4. SAP initial screen

Required Data:

Step	Field name	R/O	User action and values	Comments
1	Client	R	Enter the Client You Want to Access	
2	User	R	Enter Your User ID	
3	Password	R	Enter Your Password	



The screenshot shows the SAP initial login screen. At the top, there is a menu bar with 'User', 'System', and 'Help'. Below it is a toolbar with various icons. The main area has a 'New password' button. A message box states: 'If login problem occurs, Please contact BASIS Team.' The login fields are: 'Client' (with the value '300'), 'User' (with a yellow highlight), 'Password' (with asterisks), and 'Language' (with a dropdown arrow). Three black circles with white numbers are overlaid on the screen: '1' points to the 'Client' field, '2' points to the 'User' field, and '3' points to the 'Password' field. The bottom status bar shows 'S000', 'sapdevsrv', and 'OVR'.

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MASTER DATA

5. Material Master

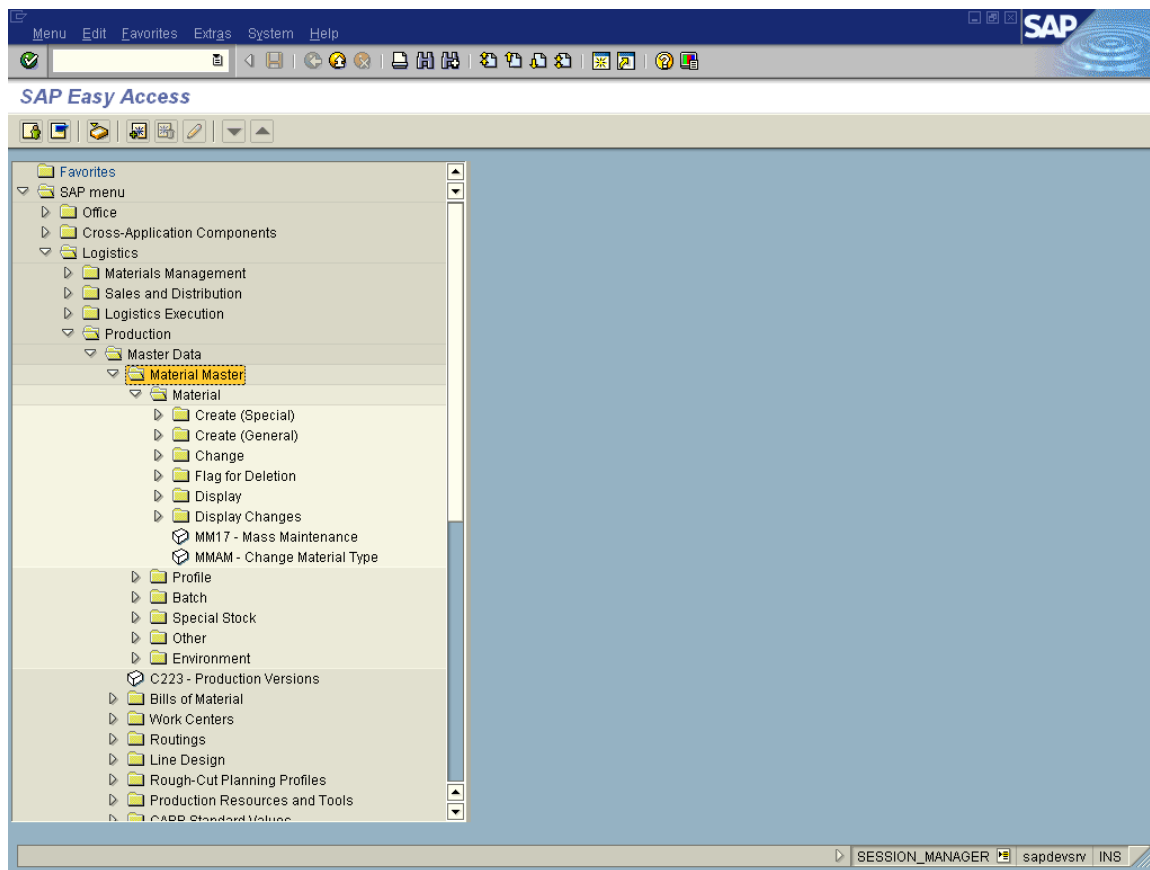
The material master contains information on the materials that a company constructs, procures, manufactures, stores, and sells.

The information is stored in a database that is a central source of data on materials.

The material master integrates data from different areas of a company.



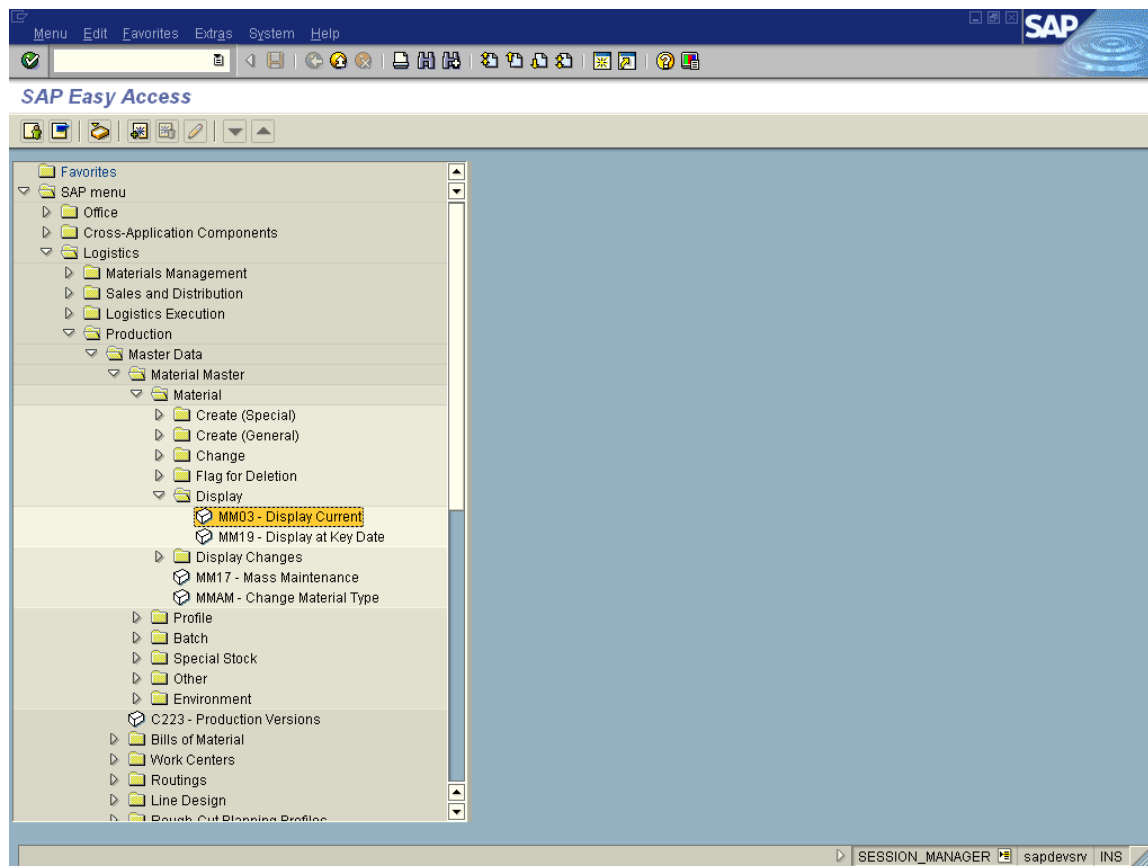
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5.1 Display Material

Menu Path	SAP Menu/ Logistics/ Production/ Master Data/ Material/ Display
Transaction Code	MM03 – Display Current

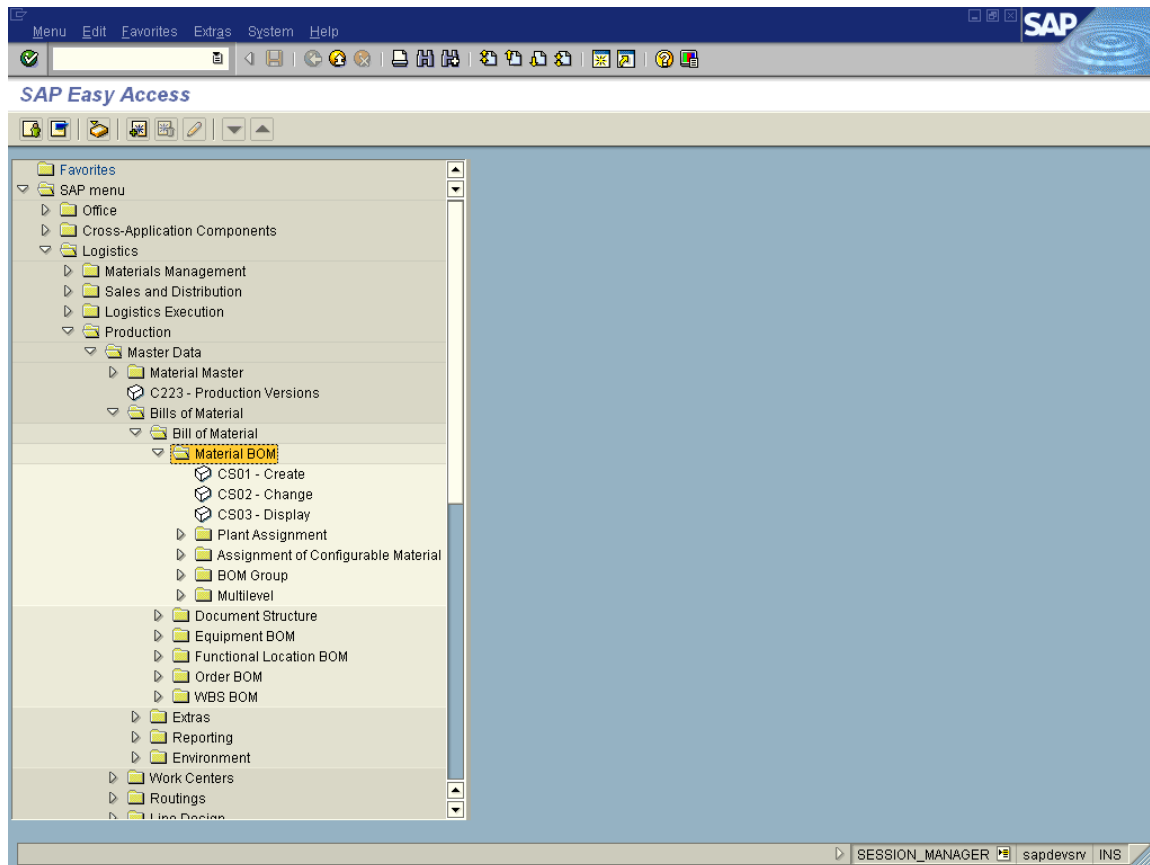


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6. Bill of Material (BOM)

A BOM is a formally structured list of the components that make up a product or assembly. The list contains the object number of each component, together with the quantity and unit of measure.

BOMs are used in their different forms in various situations where a finished/semi-finished product is manufactured from several component parts or materials.



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6.1 Create BOM

Menu Path	SAP Menu/ Logistics/ Production/ Master Data/ Bills of Material/ Bill of Material/ Material BOM/ CS01- Create
Transaction Code	CS01 - Create

Required Data:

Field name	R/O	User action and values	Comments
Material Type	R	Enter the material type either FERT or HALB, for which you want to create the Bill of Material. HALB	
Material	R	Enter the material code	
Plant	R	AG01	
BOM Usage	R	1	
Valid From	R	Date you want BOM to be valid from	

Click Enter. The system would display the BOM Item Overview screen as shown below:

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Data Required:

Field name	R/O	User action and values	Comments
Item Category	R	Enter "L", for stock item.	
Component	R	Enter Material code of the component.	
Quantity	R	Enter Quantity of component required	
Unit	R	Enter Unit of Measure	

Select each line item of the General Item overview as shown below:

Create material BOM: General Item Overview

Material: 30000100 test finishfor BATCH
 Plant: AGP AGP
 Alternative BOM: 2

Material | Document | General

Item	ICt	Component	Component description	Quantity	Un	As	SIs	Valid From	Valid to
0010	L	10000248	test active material for Active Ing mgmt	10	KG	☐	☐	05.09.2006	31.12.9999
0020	L	20000073	test semi-finished product 4 scheduling	20	EA	☒	☐	05.09.2006	31.12.9999
0030						☐	☐		

Select on the item tab as shown above. The system would display the following screen:

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Create material BOM: Item: All data

Reference items

Subitems

Long Text

Material test finishfor BATCH
Plant AGP
Alternative BOM

Basic Data
Status/Lng Text
Administr.
Document Assgmt

BOM Item
Item Number
Component test active material for Active Ing mgmt
Item Category Stock item
Item ID

Item Text
Line 1
Line 2

Item Status
☐ Engineering/design
☒ Production relevant
☐ Plant maintenance
Spare part indicator
Relevant to sales
Costing Relevancy

Further Data
Mat. Provision Ind.
☐ Bulk Material
☐ Bulk Mat.Ind.Mat.Mst
Prod. stor. location
Supply Area

Following Data is required on this screen:

Field name	R/O	User action and values	Comments
Costing relevancy	R	Select "X" i.e. 100% relevant to costing.	
Production Storage location	R	Enter the storage location from where the component is issued for production.	

After making the desired entries for all the selected components, click on the BOM header tab  as shown below:

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Material BOM Edit Goto Extras Environment Settings System Help

Material: 30000100 test finishfor BATCH

Plant: A6P AGP

Alternative BOM: 2

Material Document General

Item	ICt	Component	Component description	Quantity	Un	As	Sl	Valid From	Valid to
0010	L	10000248	test active material for Active Ing mgmt	10	KG	☐	☐	05.09.2006	31.12.9999
0020	L	20000073	test semi-finished product 4 scheduling	20	EA	☒	☐	05.09.2006	31.12.9999
0030						☐	☐		

The system would display the BOM header screen as shown below:

Create material BOM: Header Overview

Item Alternative Long Text BOM Long Text

Material: 30000100 test finishfor BATCH

Plant: A6P AGP

BOM: INTERNAL

Alternative BOM: 2

BOM Usage: 1 Production

Technical type: M Multiple BOM

BOM group:

Quants/long txt Further data Admin. data Doc. assignment

BOM and alternative text

BOM text:

Alt Text:

Quantity data

Base quantity: 1 PAC

From Lot Size: To: PAC

Validity

Change Number:

Valid From: 04.09.2006

BOM status: 1

Authorization group:

☐ Deletion Indicator ☐ Deletion Flag

Following Data is required on this screen:

Field name	R/O	User action and values	Comments
BOM text	O	Short text that defines the whole BOM.	
Alt. text	O	This text field describes an alternative BOM.	

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Base Quantity	R	It is the quantity to which all the components in a BOM relate to.	
From Lot Size	R	Lower limit of the lot-size range. The lot size comprises the quantity of a sort or series that is manufactured continuously without switching or interrupting the production process.	
To	R	Upper limit of the lot size.	
BOM status	R	Key which describes the current processing status of the BOM. This indicator controls subsequent processing of the BOM in various other organizational areas (for example, engineering, costing, MRP). BOM active status means that This BOM can be exploded in MRP and released for planned orders.	

Enter Save 
System would save the BOM.

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6.2 Change BOM

Menu Path	SAP Menu/ Logistics/ Production/ Master Data/ Bills of Material/ Bill of Material/ Material BOM/ CS02- Change
Transaction Code	CS02 – Change

Required Data:

Field name	R/O	User action and values	Comments
Material	R	Enter the material code	
Plant	R	AG01	
BOM Usage	R	1	
Alternative	R	1 (Enter the Alternative BOM # that you want to change).	
Valid From	R	Date you want BOM to be valid from	

Change material BOM: Initial Screen

Material: 30000030
 Plant: AGP
 BOM Usage: 1
 Alternative BOM: 1

Effectivity
 Change Number:
 Valid From: 01.01.2006

Click Enter. The system would display the BOM Item Overview screen as shown below:

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Material BOM Edit Goto Extras Environment Settings System Help

Change material BOM: General Item Overview

Subitems New entries Header Validity

Material: 30000033 test finished for DSAFETYS
 Plant: A601 AGP
 Alternative BOM: 1

Material Document General

Item	ICt	Component	Component description	Quantity	Un	As	Sl	Valid From	Valid to
0010	L	10000011	test ROH for DSAFETYS	1	KG	☐	☐	20.07.2006	31.12.9999
0020	L	20000020	OSNATE TABLETS FILM C200		EA	☒	☐	02.08.2006	31.12.9999
0030						☐	☐		

System displays the component overview. You can add a new component/line item or delete one or change the quantities that you had entered earlier. You can make following changes on this screen:

Field name	R/O	User action and values	Comments
Component	R	Enter Material code of the component.	
Quantity	R	Enter Quantity of component required	
Unit	R	Enter Unit of Measure	

Select each line item of the General Item overview as shown below:

Material BOM Edit Goto Extras Environment Settings System Help

Change material BOM: General Item Overview

Subitems New entries Header Validity

Material: 30000095 test finishfor standard production order
 Plant: A6P AGP
 Alternative BOM: 1

Material Document General

Item	ICt	Component	Component description	Quantity	Un	As	Sl	Valid From	Valid to	Change No.
0010	L	20000073	test semi-finished product	12,000	EA	☒	☐	01.01.2006	31.12.9999	
0020	L	50000102	Cartons Anafortan Plus Ta1		EA	☐	☐	01.01.2006	31.12.9999	

Select on the item tab  as shown above. The system would display the following screen:

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Change material BOM: Item: All data

Reference items
 Subitems
 Long Text

Material test finishfor standard production order
 Plant AGP
 Alternative BOM

Basic Data
 Status/Lng Text
 Administr.
 Document Assgmt

BOM Item
 Item Number
 Component test semi-finished product 4 scheduling
 Item Category Stock item
 Item ID

Item Text
 Line 1
 Line 2

Item Status
☐ Engineering/design
☒ Production relevant
☐ Plant maintenance
 Spare part indicator
 Relevant to sales
 Costing Relevancy

Further Data
 Mat. Provision Ind.
☐ Bulk Material
☐ Bulk Mat.Ind. Mat. Mst
 Prod. stor. location
 Supply Area

Following Data is required on this screen:

Field name	R/O	User action and values	Comments
Costing relevancy	R	Select "X" i.e. 100% relevant to costing.	
Production Storage location	R	Enter the storage location from where the component is issued for production.	

After making the desired entries, click on the BOM header tab as shown below:

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Change material BOM: Item: All data





Material: 30000095 test finishfor standard production order
 Plant: AGP AGP
 Alternative BOM: 1

Basic Data
 Status/Lng Text
 Administr.
 Document Assgmt

BOM Item

Item Number: 0010
 Component: 20000073 test semi-finished product 4 scheduling
 Item Category: L Stock item
 Item ID: 00000001

Item Text

Line 1:
 Line 2:

Item Status

☐ Engineering/design
☒ Production relevant
☐ Plant maintenance
 Spare part indicator: ☐
 Relevant to sales: ☐
 Costing Relevancy: X

Further Data

Mat. Provision Ind.: ☐
☐ Bulk Material
☐ Bulk Mat.Ind. Mat. Mst
 Prod. stor. location: SFN
 Supply Area:

The system would display the BOM header screen as shown below:

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Change material BOM: Header Overview

Item Summ.BOM Alternative Long Text BOM Long Text

Material	30000033	test finished for DSAFETY
Plant	A601	AGP
BOM	00000001	
Alternative BOM	1	
BOM Usage	1	Production
Technical type	M	Multiple BOM
BOM group		

Quants/long txt Further data Admin. data Doc. assignment

BOM and alternative text

BOM text	Test finished for DSAFETY	
Alt Text	Alternative 1 using Flourexline as Activ	

Quantity data

Base quantity	1	PAC
From Lot Size	1	To 99,999,999 PAC

Validity

Change Number		BOM status	1
Valid From	20.07.2006	Authorization group	
☐ Deletion Indicator		☐ Deletion Flag	

You can make following data changes on the header screen:

Field name	R/O	User action and values	Comments
BOM text	O	Short text that defines the whole BOM.	
Alt. text	O	This text field describes an alternative BOM.	
Base Quantity	R	It is the quantity to which all the components in a BOM relate to.	
From Lot Size	R	Lower limit of the lot-size range. The lot size comprises the quantity of a sort or series that is manufactured continuously without switching or interrupting the production process.	
To	R	Upper limit of the lot size.	
BOM status	R	Key which describes the current processing status of the BOM. This indicator controls subsequent processing of the BOM in various other organizational areas (for example, engineering, costing, MRP).	

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		BOM active status means that This BOM can be exploded in MRP and released for planned orders.	
--	--	---	--

Enter Save.



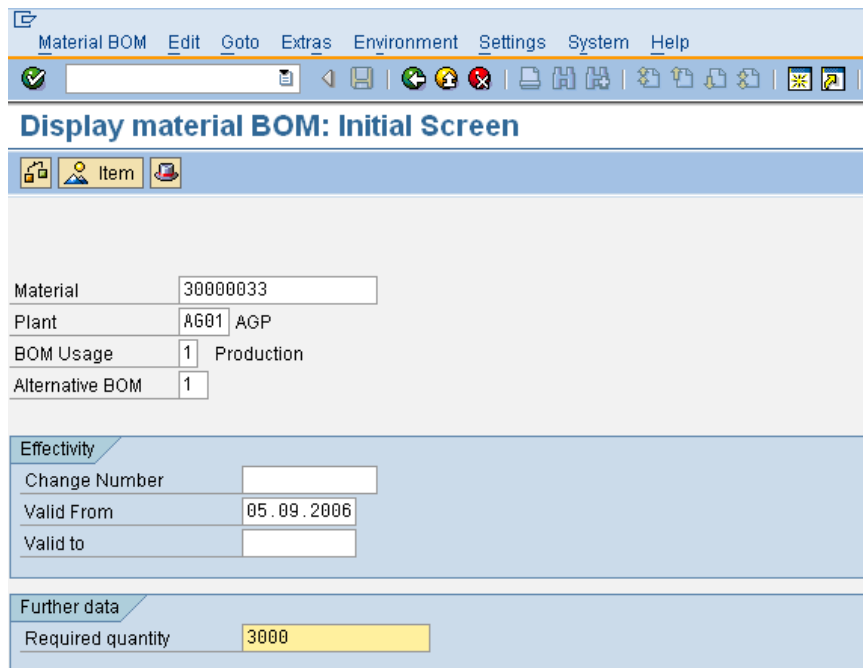
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6.3 Display BOM

Menu Path	SAP Menu/ Logistics/ Production/ Master Data/ Bills of Material/ Bill of Material/ Material BOM/ CS03- Display
Transaction Code	CS03 – Display

Required Data:

Field name	R/O	User action and values	Comments
Material	R	Enter the material code	
Plant	R	AG01	
BOM Usage	R	1	
Alternative	R	1 (Enter the Alternative BOM # that you want to change).	
Valid From	R	Date you want BOM to be valid from	
Required Quantity	O	Quantity to which the individual component quantities refer in display functions. If you do not enter a required quantity, the required quantity is set to the base quantity.	



The screenshot shows the 'Display material BOM: Initial Screen' in SAP. The interface includes a menu bar (Material BOM, Edit, Goto, Extras, Environment, Settings, System, Help) and a toolbar. The main area contains several input fields: Material (30000033), Plant (AG01), BOM Usage (1), Alternative BOM (1), Effectivity (Change Number, Valid From: 05.09.2006, Valid to), and Further data (Required quantity: 3000).

Click Enter. The system would display the BOM Item Overview screen as shown below:

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Material BOM Edit Goto Extras Environment Settings System Help

Display material BOM: General Item Overview

Subitems New entries Header Validity

Material: 30000033 test finished for DSAFETYS
 Plant: A601 AGP
 Alternative BOM: 1 Alternative 1 using Flourexline as Activ

Material Document General

Item	ICt	Component	Component description	Quantity	Un	As	Sl	Valid From	Valid to
0010	L	10000011	test ROH for DSAFETYS	3,000	KG	☐	☐	20.07.2006	31.12.9999
0020	L	20000020	OSNATE TABLETS FILM C	600,000	EA	☒	☐	02.08.2006	31.12.9999

Click on the BOM header tab  as shown below:

The system would display the BOM header screen as shown below:

Display material BOM: Header Overview

Item Summ.BOM Alternative Long Text BOM Long Text

Material: 30000033 test finished for DSAFETYS
 Plant: A601 AGP
 BOM: 00000001
 Alternative BOM: 1
 BOM Usage: 1 Production
 Technical type: M Multiple BOM
 BOM group:

Quants/long txt Further data Admin. data Doc. assignment

BOM and alternative text

BOM text: Test finished for DSAFETY
 Alt Text: Alternative 1 using Flourexline as Activ

Quantity data

Base quantity: 1 PAC
 From Lot Size: 1 To: 99,999,999 PAC

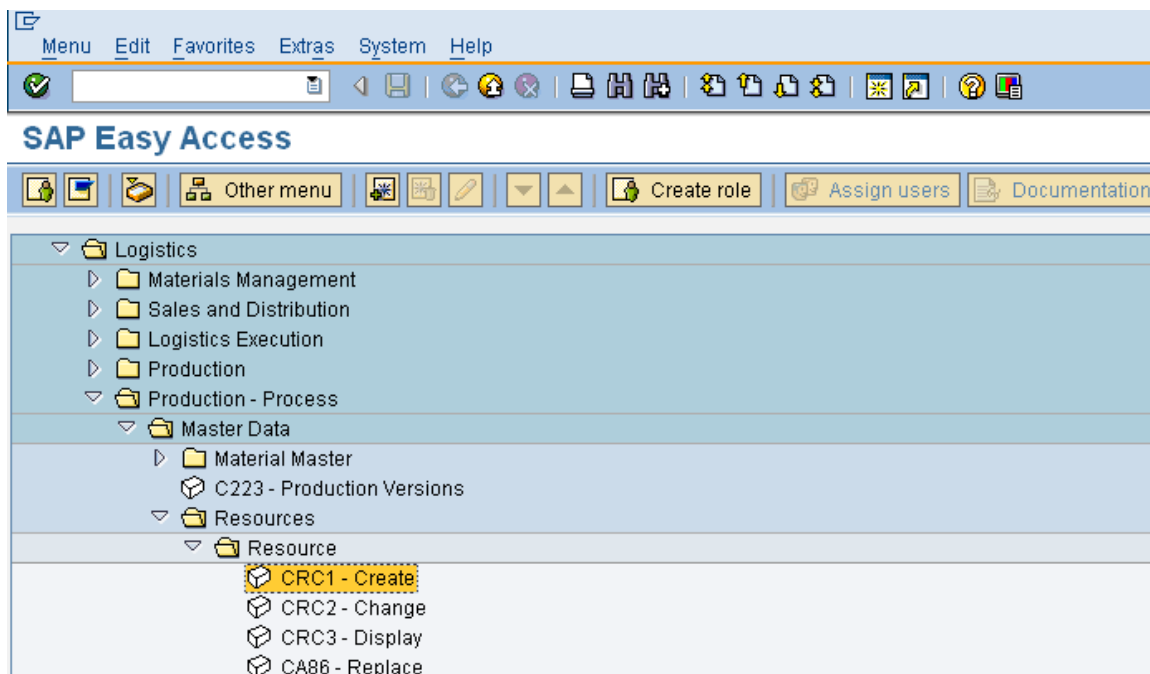
Validity

Change Number: Valid From: 20.07.2006
 BOM status: 1
 Authorization group:
☐ Deletion Indicator ☐ Deletion Flag

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7. Resources

Resources are means of production (machines, processing unit) and persons involved in a production process that have capacities assigned to them.



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7.1 Create Resource

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/ Resources/ Resource/ CRC1>Create
Transaction Code	CRC1 - Create

System would display the following screen:

The screenshot shows the SAP 'Create Resource: Initial Screen'. At the top is a menu bar with 'Resource', 'Edit', 'Goto', 'Extras', 'System', and 'Help'. Below the menu bar is a toolbar with various icons. The main title is 'Create Resource: Initial Screen'. There are two tabs: 'Basic data' (selected) and another tab. The 'Basic data' tab contains the following fields: 'Plant' with the value 'ag01', 'Resource' with the value 'test1234', and 'Resource category' with the value '0008' and a dropdown arrow.

You are supposed to enter the following data:

Field name	R/O	User action and values	Comments
Plant	R	Enter your Plant AG01.	
Resource	R	Enter Name of Resource that you want to create	
Resource Category	R	Enter Resource category e.g., Machine	

Press enter.

7.1.1 Basic Data

System would take you to the basic data screen. System displays the following information:

Plant AG01
Resource ID TEST1234
Resource Category 0008 (Processing Unit)

System asks you to enter the following details as shown in the screenshot below:

Field name	R/O	User action and values	Comments
Resource Description	R	Enter complete/detailed resource name/description	
Person Responsible	R	Select person responsible, a person responsible for managing the resource.	

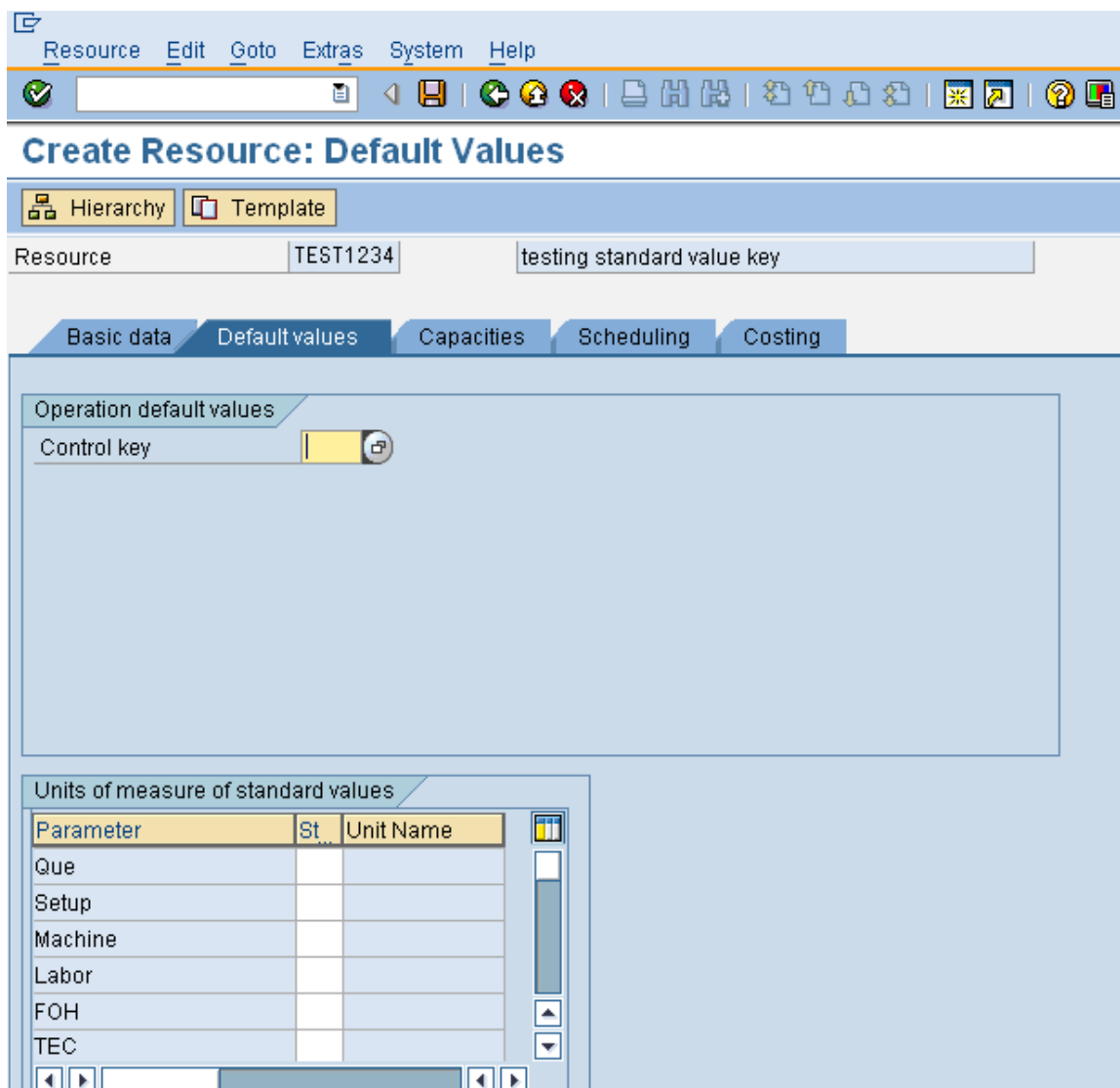
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Usage	R	Enter 009	
Standard Value Key	R	Enter ZPBCL	

You enter the required values and select the Default values tab. The system displays the Default values screen:

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7.1.2 Default Values



Parameter	St	Unit Name
Que		
Setup		
Machine		
Labor		
FOH		
TEC		

You are supposed to enter the following information on the screen shown above:

Field name	R/O	User action and values	Comments
Control Key	R	Enter "PI01"	
Standard Value Unit	R	Enter unit of measure for each parameter of Standard Value Key.	

You enter the required information and click on the CAPACITY tab.

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7.1.3 Capacities

System displays the following screen once you click on the capacity tab.

You are supposed to enter the following information on the capacity screen as shown below:

Field name	R/O	User action and values	Comments
Capacity Category	R	Enter capacity category	
Setup formula	R	Enter setup formula	
Processing Formula	R	Enter Processing Formula	

Create Resource: Capacity Overview

Hierarchy
 Template

Plant: AGP
 AGP

Resource: TEST1234
 testing standard value key

Basic data
 Default values
 Capacities
 Scheduling
 Costing

Overview

Capacity category

Setup formula

Processing formula

Capacity category

Setup formula

Processing formula

Capacity
 Form.
 Formu
 Formula constnts
 ActCapReqmnts

Click on the Capacity header tab. The system would display the following screen:

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Create Resource capacity: Header

Intervals and Shifts		Intervals		Available Capacity Profile		Reference Available Capacity	
Plant	AG01	AGP					
Resource	TEST1234	testing standard value key					
Capacity category	001						
General data							
Capacity planner grp	☒						
☐ Pooled capacity		Grouping	☐				
Available capacity							
Factory calendar ID	☐						
Active version	1	Normal available capacity					
Base unit of meas.	HR	Hours					
Standard available capacity							
Start	08:00:00					Capacity utilization	100
Finish	17:00:00					No. of indiv. cap.	1
Length of breaks	01:00:00					Capacity	8.00 HR
Operating time	8.00						
Planning details							
☒ Relevant to finite scheduling		Overload	☐	%			
☒ Can be used by several operations		☒ Long-term planning					

You need to enter the following data on the Capacity header screen;

Field name	R/O	User action and values	Comments
Description of Capacity Category	R	Enter Description	
Capacity Planner Group	R	Enter Capacity Planner Group	
Factory Calendar	R	Select Factory Calendar	
Base Unit of Measure	R	Enter Base Unit of Measure	
Standard Available Capacity	R	Enter Start and Finish Time and Length of Breaks	
Capacity Utilization	R	Enter Utilization of Capacity	
No. of Individual Capacities	R	Enter No. of Individual Capacities	
Finite Scheduling indicator	R	Please check this indicator.	

Click on the back icon. The system displays the Resource Capacity screen. Select the scheduling tab.

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7.1.4 Scheduling

Create Resource: Scheduling

Hierarchy
Template

Plant: AGP
Resource:

Basic data | Default values | Capacities | **Scheduling** | Costing

Scheduling basis
Capacity category:
Capacity:

Execution time
Setup formula:
Processing formula:
Other formula:

Std. queue time:

Field name	R/O	User action and values	Comments
Capacity Category	R	Enter Capacity Category	
Setup Formula	R	Enter Setup Formula	
Processing Formula	R	Enter Processing Formula	
Other Formula	R	Enter Other Formula	
Standard Queue time	R	Enter Standard Queue time	
Unit for Std Queue time	R	Enter unit for Std Queue time	

Make the required entries and select Costing tab. System would display the following screen:

7.1.5 Costing

You are supposed to enter the following information as shown on the screenshot below:

Field name	R/O	User action and values	Comments
Start Date	R	Enter the validity of Resource	
Cost Centre	R	Enter Cost Centre assigned to the Resource	

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Activity Type	R	Enter Activity Type of the Resource	
Pref. Unit	R	Enter Unit of Measure for activity type	
Formula Key	R	Enter Formula Key for costing purposes	

Resource Edit Goto Extras System Help

Create Resource: Cost Center Assignment

Hierarchy Template

Plant AG01 AGP
Resource TEST1234 testing standard value key

Basic data Default values Capacities Scheduling Costing

Validity
Start date 05.09.2006 End Date 31.12.9999

Link to cost center/activity types
Controlling Area AG01 AGP (Pvt.) Limited
Cost Center

Activities Overview

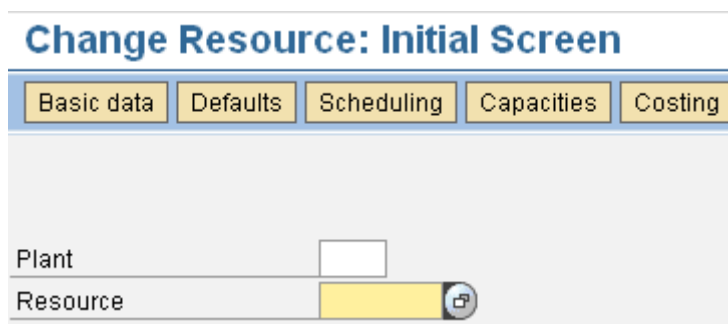
Alt. activity descr.	Activity Type	Activity Unit	R	Formu	Formula description
Que			☐		
Setup			☐		
Machine			☐		
Labor			☐		
FOH			☐		
TEC			☐		

You enter the required values and press save. System would save the resource.

7.2 Change Resource

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/ Resources/ Resource/ CRC2-Change
Transaction Code	CRC2 - Change

System would display the following screen:



Change Resource: Initial Screen

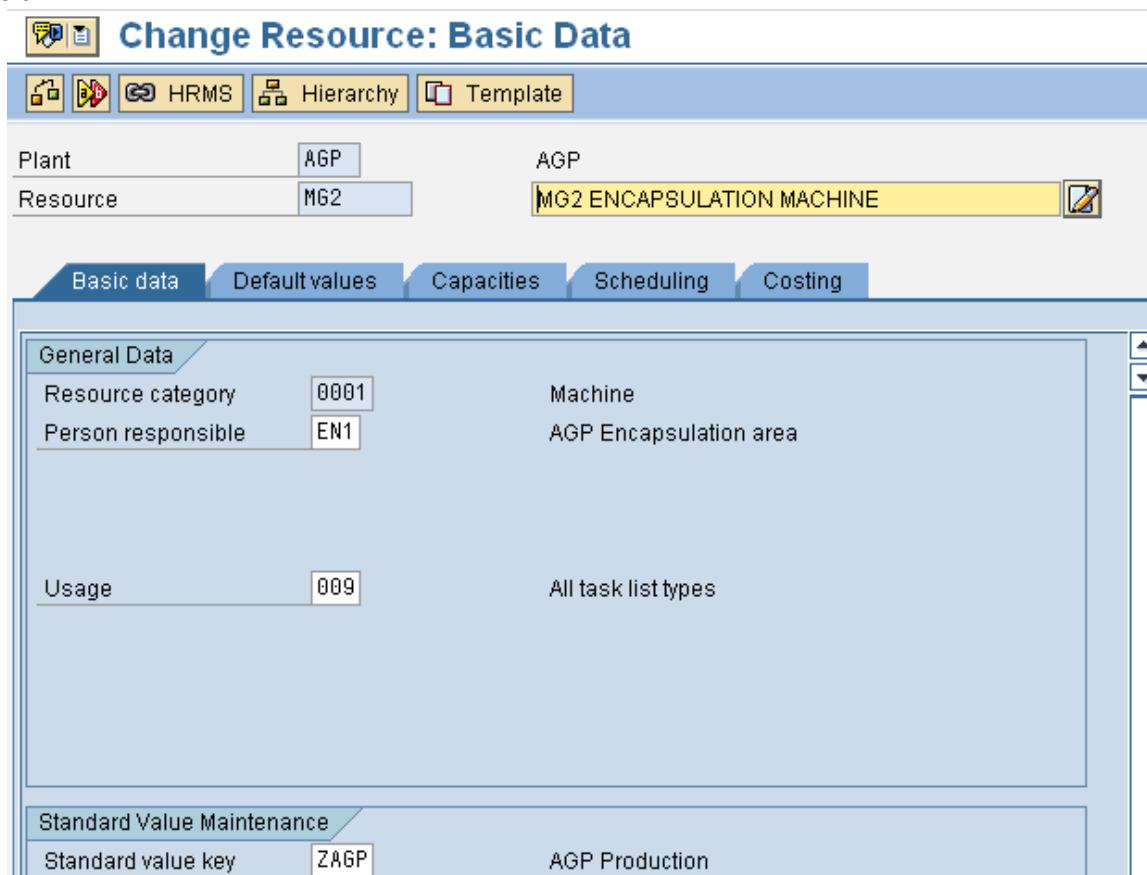
Basic data Defaults Scheduling Capacities Costing

Plant

Resource

7.2.1 Basic data:

Enter the Plant and enter Resource ID. Press enter. System displays the basic data screen as shown below:



Change Resource: Basic Data

Plant AGP AGP

Resource M62 MG2 ENCAPSULATION MACHINE

Basic data Default values Capacities Scheduling Costing

General Data

Resource category 0001 Machine

Person responsible EN1 AGP Encapsulation area

Usage 009 All task list types

Standard Value Maintenance

Standard value key ZAGP AGP Production

You can make changes in any of the following data:

31

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Field name	R/O	User action and values	Comments
Work Centre Description	R	Change if required.	
Person Responsible	R	Reselect if required	
Usage	R	Reselect if required (do not change)	
Standard Value Key	R	Change if required.	

Select the Default Values tab. System displays the following screen:

7.2.2 Default Values

You can either change the Control Key or the units of parameters used in the Standard Value Key. Make the desired changes. Select the Capacities tab. System displays the following screen:

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7.2.3 Capacities

System displays the following screen once you click on the capacity tab.

You can make changes in any of the following data:

Field name	R/O	User action and values	Comments
Capacity Category	R	Change if required	
Setup formula	R	Change if required	
Processing Formula	R	Change if required	

Click on the Capacity header tab. The system would display the following screen:

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Intervals and Shifts | Intervals | Available Capacity Profile | Reference Available Capacity | Short Texts

Plant	AGP	AGP
Resource	UNIMIX	UNIMIX
Capacity category	001	UNIMIX

General data

Capacity planner grp	NST	CapPl. NonSterile
☐ Pooled capacity		Grouping ☐

Available capacity

Factory calendar ID	01	Germany (Standard)
Active version	1	Normal available capacity
Base unit of meas.	HR	Hours

Standard available capacity

Start	08:00:00	
Finish	17:00:00	Capacity utilization 75
Length of breaks	01:00:00	No. of indiv. cap. 1
Operating time	6.00	Capacity 6.00 HR

Planning details

☒ Relevant to finite scheduling	Overload ☐ %	
☐ Can be used by several operations	☐ Long-term planning	

You may edit any of the following data on the Capacity header screen;

Field name	R/O	User action and values	Comments
Description of Capacity Category	R	Enter Description	
Capacity Planner Group	R	Enter Capacity Planner Group	
Factory Calendar	R	Select Factory Calendar	
Base Unit of Measure	R	Enter Base Unit of Measure	
Standard Available Capacity	R	Enter Start and Finish Time and Length of Breaks	
Capacity Utilization	R	Enter Utilization of Capacity	
No. of Individual Capacities	R	Enter No. of Individual Capacities	
Finite Scheduling indicator	R	Please check this indicator.	

Click on the back icon. The system displays the Resource Capacity screen. Select the scheduling tab.

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7.2.4 Scheduling

Change Resource: Scheduling

HRMS
 Hierarchy
 Template

Plant AGP
 Resource

Basic data Default values Capacities **Scheduling** Costing

Scheduling basis
 Capacity category Machine
 Capacity UNIMIX

Execution time
 Setup formula Prod.: Setup time
 Processing formula Prod.: Machine time
 Teardown formula
 Other formula Prod.: Setup time

Field name	R/O	User action and values	Comments
Capacity Category	R	Change if required.	
Setup Formula	R	Change if required.	
Processing Formula	R	Change if required.	
Other Formula	R	Change if required.	
Standard Queue time	R	Change if required.	
Unit for Std Queue time	R	Change if required.	

Make the required changes and select Costing tab. System would display the following screen:

7.2.5 Costing

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Change Resource: Cost Center Assignment

HRMS
 Hierarchy
 Template

Plant AGP
 Resource

Basic data Default values Capacities Scheduling **Costing**

Validity
 Start date End Date

Link to cost center/activity types
 Controlling Area AGP (Pvt.) Limited
 Cost Center Granulation

Activities Overview

Alt. activity descr.	Activity Type	Activity Unit	R...	Formu...	Formula description
Que	QUE	HR	☐	ZAGP01	AGP Queue time
Setup	SETUP	HR	☐	SAP005	Prod: Setup rqmts
Machine	MCH	HR	☐	SAP006	Prod.: Machine rqmts
Labor	LBH	HR	☐	SAP007	Prod.: Labor rqmts
FOH	FACOH	HR	☐	ZAGFOH	AGP Fac. overhead
TEC	TEC	HR	☐	ZAGTEC	AGP Technical Cost

You can make any desired changes:

Field name	R/O	User action and values	Comments
Start Date	R	Change if required.	
Cost Centre	R	Change if required.	
Activity Type	R	Change if required.	
Pref. Unit	R	Change if required.	
Formula Key	R	Change if required.	

After making the necessary changes, you can press SAVE.

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7.3 Display Resource

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/ Resources/ Resource/ CRC3-Display
Transaction Code	CRC3 - Display

Display Resource: Initial Screen

Basic data
Defaults
Scheduling
Capacities
Costing

Plant

WGP

Resource

UNIMIX

Enter the Plant and enter Resource ID. Press enter. System displays the basic data screen as shown below:

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Display Resource: Basic Data

HRMS
 Hierarchy

Plant: AGP
 Resource: UNIMIX

Basic data | Default values | Capacities | Scheduling | Costing

General Data
 Resource category Machine
 Person responsible AGP Semi-solids Ointments

 Usage All task list types

Standard Value Maintenance
 Standard value key AGP Production
Standard Values Overview

Key Word	Rule for Maint.	Description
Que	no checking	
Setup	no checking	
Machine	no checking	
Labor	no checking	
FOH	no checking	
TEC	no checking	

Select the Default Values tab. System displays the following screen:

Display Resource: Default Values

HRMS Hierarchy

Plant: AGP AGP
Resource: UNIMIX UNIMIX

Basic data **Default values** Capacities Scheduling Costing

Operation default values

Control key: PI01 Process manufacturing

Units of measure of standard values

Parameter	St	Unit Name
Que	HR	Hours
Setup	HR	Hours
Machine	HR	Hours
Labor	HR	Hours
FOH	HR	Hours
TEC	HR	Hours

Select the Capacities tab.

Display Resource: Capacity Overview

HRMS Hierarchy

Plant: AGP AGP
Resource: UNIMIX UNIMIX

Basic data Default values **Capacities** Scheduling Costing

Overview

Capacity category: 001 Machine
UNIMIX

Setup formula: SAP005 Prod: Setup rqmts
Processing formula: SAP006 Prod.: Machine rqmts
Other formula:

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Select the scheduling tab.

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Display Resource: Scheduling

 HRMS
  Hierarchy

Plant: AGP
 Resource:

Basic data | Default values | Capacities | **Scheduling** | Costing

Scheduling basis
 Capacity category: Machine
 Capacity: UNIMIX

Execution time

Setup formula	SAP001		Prod.: Setup time
Processing formula	SAP002		Prod.: Machine time
Teardown formula			
Other formula	SAP001		Prod.: Setup time

Select Costing tab. System would display the following screen:

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HRMS

Hierarchy

Plant:

Relationships (Shift+F9)

AGP

Resource

UNIMIX

UNIMIX

Basic data

Default values

Capacities

Scheduling

Costing

Validity

Start date

01.01.2006

End Date

31.12.9999

Link to cost center/activity types

Controlling Area

AGP

AGP (Pvt.) Limited

Cost Center

51301

Granulation

Activities Overview

Alt. activity descr.	Activity Type	Activity Unit	R...	Formu...	Formula description
Que	QUE	HR	☐	ZAGP01	AGP Queue time
Setup	SETUP	HR	☐	SAP005	Prod: Setup rqmts
Machine	MCH	HR	☐	SAP006	Prod.: Machine rqmts
Labor	LBH	HR	☐	SAP007	Prod.: Labor rqmts
FOH	FACOH	HR	☐	ZAGFOH	AGP Fac. overhead
TEC	TEC	HR	☐	ZAGTEC	AGP Technical Cost

8. Master Recipe

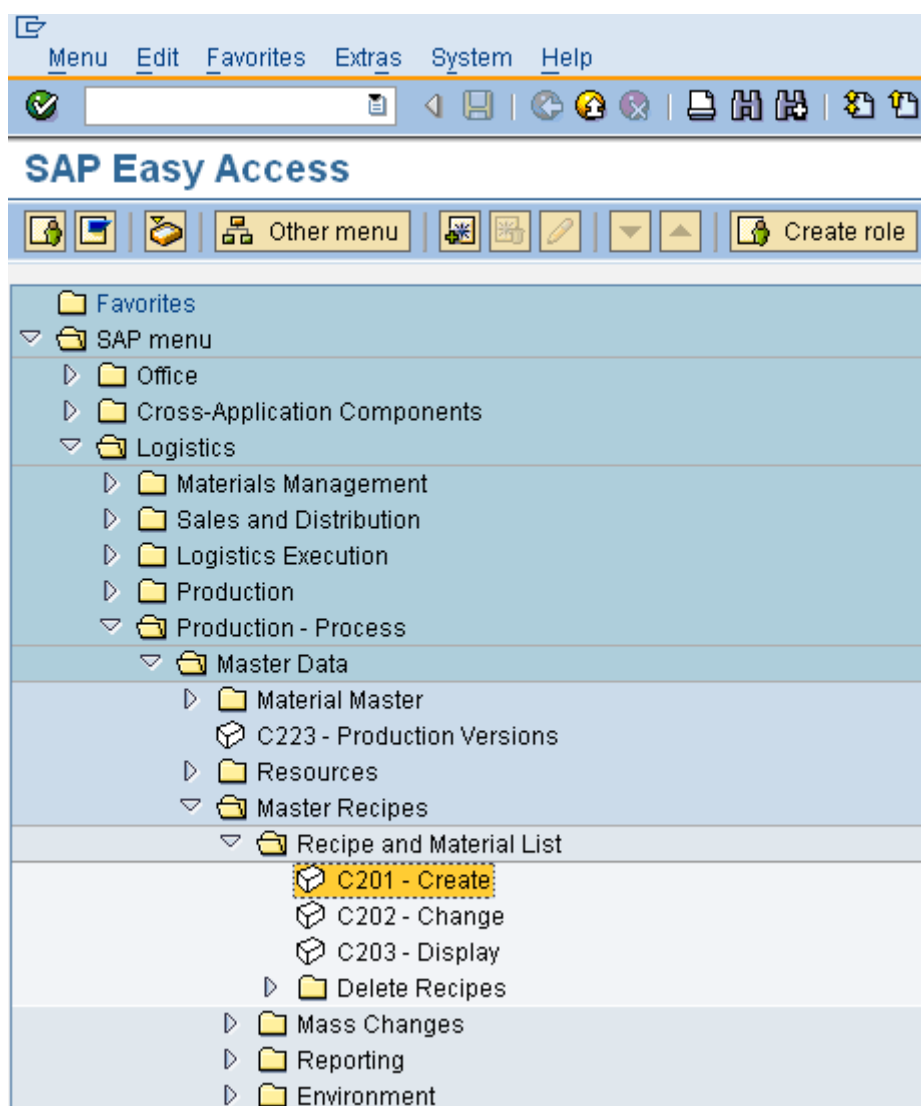
A recipe describes an enterprise-specific process in the process industry that does not relate to a specific order.

The master recipe is used for producing materials.

8.1 Create Master Recipe

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/ Master Recipes/ Recipe and Material list/ C201-Create
Transaction Code	C201 - Create

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The system displays the following screen:

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Create Master Recipe: Initial Screen

Recipe header
Operations
Materials
Recipe
Materials

Recipe Group
Recipe

or

Material
Plant
Prod. Version

Profile

Validity

Key date

Change Number

You have to enter the following information:

Field name	R/O	User action and values	Comments
Material	R	Enter the material code of material for which you want to generate the recipe.	
Plant	R	Enter your plant	
Production version	R	Enter Key identifying a production version for the BOM header material in the recipe. Production versions describe the different production methods by which a material can be produced.	
Profile	R	Enter PI01.	
Key Date	R	Enter the key date from which the recipe would be valid.	

You enter the required information and press “ENTER”. System displays the Recipe Header screen:

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Create Master Recipe: Recipe

⏪ ⏩ ⏴ ⏵

📁 🔍 📄

Recipe Group:

Recipe:

Plant:

☐ Deletion Flag
☐ Long Text Exists

test finishfor BATCH

Recipe header

Operations

Materials

Administrative data

Assignment

Status ☒

Usage ☒

Planner group

Resource netwrk

Network Plant

Classification

Quality Management

➔ Material Assignments

Charge Quantity Range

From

to

Un

Default Values for Operations, Phases, and Secondary Resources

Base Quantity

Un

Charge Quantity

Equal to

Operation Qty

System displays the Recipe group counter, Material description and plant. You are supposed to make the following data inputs (as also marked on the screenshot):

Field name	R/O	User action and values	Comments
Status	R	Enter "4", Released general, you can use "1" as well if you want to block recipe for production.	
Usage	R	Enter "1" for production.	
Planner group	R	Enter "QA1".	
Key Date	R	Enter the key date from which the recipe would be valid.	
Charge quantity range from	R	Enter Lower limit of the charge quantity range for which the recipe is valid.	
Charge quantity range to	R	Enter Upper limit of the charge quantity range for which the recipe is valid.	

Base Quantity	R	Enter Quantity of the material to be produced to which the standard values of the operation refer.	
Unit of Base Quantity	R	Enter unit of base quantity.	

After making the desired inputs, you press “ENTER”.
System displays the Operations screen for the Master Recipe.

Create Master Recipe: Recipe

You can create as many as operations and phases as there are in the recipe. In the first step, you have to define the first operation.

You enter the following data for the operation:

Field name	R/O	User action and values	Comments
Operation #	R	First operation could be say 0010.	
Resource	R	Enter resource to be used by operation.	
Control Key	R	Enter “PI01”.	
Description	R	Enter the description for the operation.	

In the second step, you enter data for the phases those are there in the operation. You are required to enter the following data for the phase:

Field name	R/O	User action and values	Comments
Phase #	R	You set first phase # as say 0020.	
Phase Indicator	R	You have to check the phase indicator.	
Destination	R	Enter “01”.	

Once you have entered the above mentioned data, the operation screen would look like as shown below:

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Create Master Recipe: Recipe



Recipe Group ☐ Deletion Flag ☐ Long Text Exists
 Recipe
 Plant

Recipe header Operations Materials Administrative data

Ops															
Opera	Ph	Sup	De	Resource	Co	Lo	Standar	Description	Lan	Rel	Cla	Obj	Base Qty	Act/	
0010	☐			UNIMIX	PI01	☐		Mixing			☐	☐		1 PAC	
0020	☒	0010	01	UNIMIX	PI01	☐				X	☐	☐		1 PAC	
0030	☐				PI01	☐				X	☐	☐		1 PAC	
0040	☐				PI01	☐				X	☐	☐		1 PAC	
0050	☐				PI01	☐				X	☐	☐		1 PAC	
0060	☐				PI01	☐				X	☐	☐		1 PAC	
0070	☐				PI01	☐				X	☐	☐		1 PAC	
0080	☐				PI01	☐				X	☐	☐		1 PAC	
0090	☐				PI01	☐				X	☐	☐		1 PAC	

On the operation screen shown above, 0010 is the first operation in the recipe and 0020 is the first phase in the operation. UNIMIX is the resource being used by operation and phases, a resource used by an operation would also be used by all the phases in that particular operation. You would double click on the phase 0020. System would display the following screen:

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Create Master Recipe: Operation

Recipe group

50000021

test finishfor BATCH

Recipe

2

Plant

AGP AGP

Oper./Act.

0020

☒ Ph

Sup. operation

0010

☐ LongText

Standard text key

General data

Standard values

User fields

Process instructions

Relationships

Control key

PI01

Process manufacturing

Base Quantity

1

PAC

Charge Quantity

1

PAC

Equals

Operation Qty

1

PAC

Resource

UNIMIX

UNIMIX

Plant

AGP

	Duration	Un	Activity Type
Que		HR	QUE
Setup		HR	SETUP
Machine		HR	MCH
Labor		HR	LBH
FOH		HR	FACOH
TEC		HR	TEC

☐ Flex. duration

You are required to make the following inputs for the phase as also shown on the screenshot:

Field name	R/O	User action and values	Comments
Description	R	You enter the description for the phase.	
Duration for the activity types	R	You have to enter the duration for each activity type.	

You make the required entries for the phase and go back to the operations main screen by clicking on the back button as shown:

Business Process	User Manual – Production Planning & Control Master Data – PBCL	Created on: Created by:	09092006
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Create Master Recipe: Operation

Recipe group:
Recipe:
Oper./Act.: ☒ Ph
Sup. operation:

Plant: AGP
 ☒ Ph
☐ LongText Standard text key:

General data
Standard values
User fields
Process instructions
Relationships

Control key:

Base Quantity: PAC
Charge Quantity: PAC Equals Operation Qty: PAC

Resource: UNIMIX
Plant:

Process manufacturing

	Duration	Un	Activity Type
Que	1.0	HR	QUE
Setup	1.0	HR	SETUP
Machine	1.0	HR	MCH
Labor	1.0	HR	LBH
FOH	1.0	HR	FACOH
TEC	1.0	HR	TEC

System would display the Operations screen. You can repeat the same process for the remaining phases in the operation. And similarly you can also create other operations (if any) with their phases.

In the next step, you are required to create the relationship between the phases. You would select the phases between which you want to establish a relationship and click on the tab as shown below:

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Create Master Recipe: Recipe

Recipe Group: 50000021 ☐ Deletion Flag ☐ Long Text Exists
Recipe: 2 test finishfor BATCH
Plant: AGP AGP

Recipe header | **Operations** | Materials | Administrative data

Ops									
Opera	Ph	Sup.	De	Resource	Co	Lo	Standar	Description	
0010	☐			UNIMIX	PI01	☐		Granulation	
0020	☒	0010	01	UNIMIX	PI01	☐		Mixing	
0030	☒	0010	01	UNIMIX	PI01	☐		Kneading	
0040	☐				PI01	☐			
0050	☐				PI01	☐			
0060	☐				PI01	☐			
0070	☐				PI01	☐			
0080	☐				PI01	☐			
0090	☐				PI01	☐			
0100	☐				PI01	☐			
0110	☐				PI01	☐			
0120	☐				PI01	☐			
0130	☐				PI01	☐			
0140	☐				PI01	☐			
0150	☐				PI01	☐			

1 / 3

System would display the following screen:

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Create Master Recipe: Recipe

Recipe Group: 50000021 ☐ Deletion Flag ☐ Long Text Exists

Recipe: 2 test finishfor BATCH

Plant: AGP AGP

Recipe header Operations Materials Administrative data

Ops	Opera	Ph	Sup	De	Resource	Co	Lo	Standar	Description
	0010	☐			UNIMIX	PI01	☐		Granulation
	0020	☒	0010	01	UNIMIX	PI01	☐		Mixing
	0030	☒	0010	01	UNIMIX	PI01	☐		Kneading
	0040	☐				PI01	☐		
	0050	☐				PI01	☐		
	0060	☐				PI01	☐		
	0070	☐				PI01	☐		
	0080	☐				PI01	☐		
	0090	☐				PI01	☐		
	0100	☐				PI01	☐		
	0110	☐				PI01	☐		
	0120	☐				PI01	☐		
	0130	☐				PI01	☐		
	0140	☐				PI01	☐		

Generate relationships

Phase selection

☐ Selected phases

☒ All phases

Relation. view selection

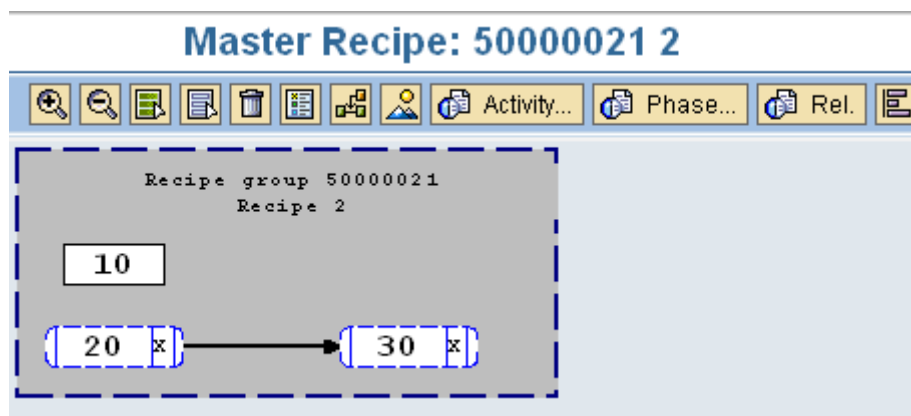
☒ Successors

☐ Predecessr

Relat. type FS

☒ ☐

When you would press “ENTER” a **FS (Finish-Start)** relationship would be established between the phases. Click on Operations Graphics icon and system would display the relationship between the phases as shown below:



Clicking on the back tab, you would come back to Operations main screen. Click. System would save the recipe.

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8.2 Create Master Recipe via production version

Production Version

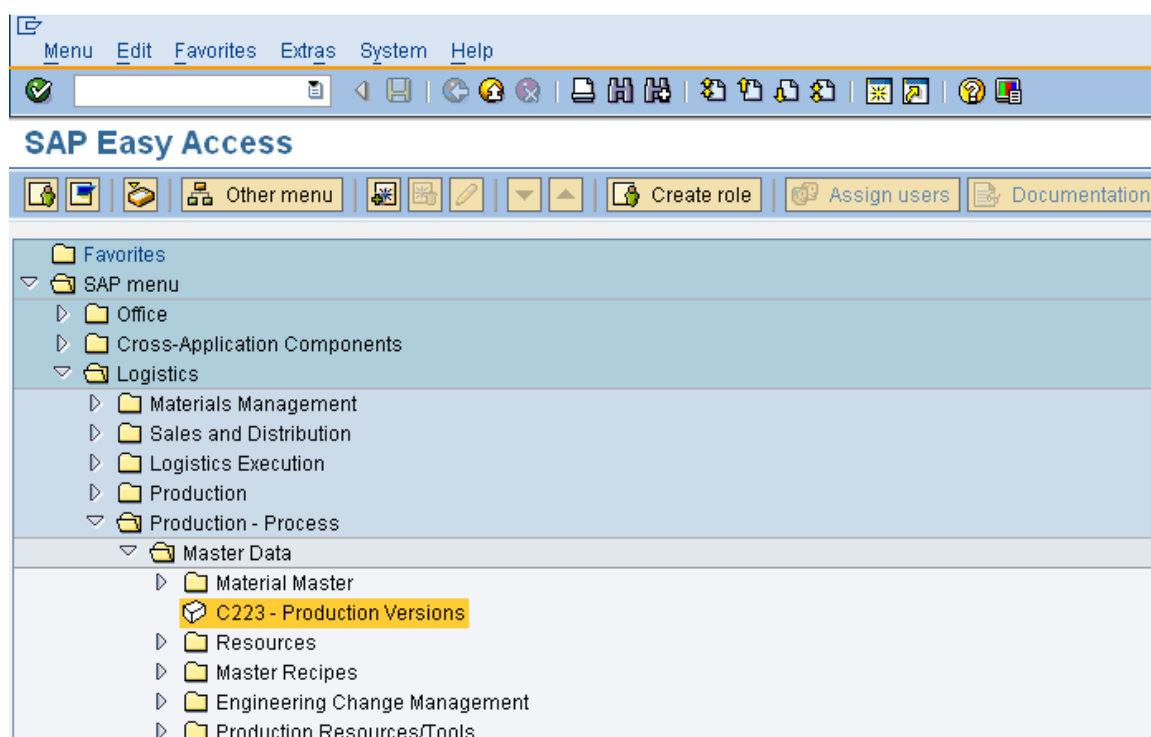
The production version determines production techniques that can be used to produce a material.

It specifies:

- BOM alternative for a BOM explosion
- Task list type, task list group, and group counter for allocation to task lists

Lot-size restrictions and area of validity

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/
Transaction Code	C223- Production Version



The system displays the following screen:

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Production Versions Edit Goto Environment System Help

Production Version: Mass Processing

Selection Conditions

Plant AGP

Material

MRP Controller

Key date

Production line

Task List Type Group

Detailed plng

Rate-based plng

Rough-Cut Plng

Production versions

Plant	Material	Pro...	Text	Lock	M	P	C	Tes	Check date	Valid from	Valid to	From lot size	To lot size	Unit	Alte	B

System asks you to enter the plant and press "ENTER".
System would ask you to enter the following data as shown on the screenshot below:

Production Versions Edit Goto Environment System Help

Production Version: Mass Processing

Selection Conditions

Plant AGP

Material

MRP Controller

Key date

Production line

Task List Type Group

Detailed plng

Rate-based plng

Rough-Cut Plng

Production versions

Plant	Material	Pro...	Text	Lo...	M	P	C	Tes	Check date	Valid from	Valid to	From lot size	To lot size	Unit	Alte	B	A	Detailed	G
AGP				Nc															
AGP				Nc															
AGP				Nc															
AGP				Nc															

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Field name	R/O	User action and values	Comments
Material	R	Enter the Material code for which you want to create a production version.	
Production version key	R	Enter Production Version Key, enter 0001 for the first version and so on and so forth.	
Production version text	R	Enter description for the production version.	
Valid from date	R	Enter the key date from which the production version would be valid.	
Valid to date	R	Enter the key date from which the production version would be valid.	
From lot size	R	Enter Lower limit of the lot size for which the production version is valid.	
To lot size	R	Enter Upper limit of the lot size for which the production version is valid.	
Alternative BOM #	R	Enter the Alternative BOM #.	
BOM Usage	R	Enter "1" for Production.	
Task list type	R	Select "Master Recipe" for the task list type.	

Enter the required data and select the line item and press.  .
System would display the following screen:

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Production Version: Mass Processing			
Consistency Check of Production Versions			
Version 06.09.2006/10:39:45			
Material	30000100	Plant	AGP AGP
Production version	0002	Lock	Not locked
Valid from	01.01.2006	Valid to	31.12.9999
Frm lot size	1	To lot size	99,999,999
		Base UoM	PAC
Detailed plnng	TL Type	2 Task LstGrp	50000021 Alternative 1
From period Frm lot size	To period To lot size	E W Error/warning description	
01.01.2006 1	31.12.9999 99,999,999	Task list exists PAC	
BOM	Alternative 1	Application 1	
From period Frm lot size	To period To lot size	E W Error/warning description	
01.01.2006	31.12.9999 999999999.999	BOM exists PAC	

Clicking on the back tab, you would come back to Production Version main screen. Click. System would save the Production version.



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8.3 Editing Master Recipe via Production Version and Handling Material Quantity Calculations

Menu Path	SAP Menu/ Logistics/ Production-Process/ Master Data/ C223-Production Version
Transaction Code	C223- Production Version

The system displays the following screen:

You have to enter the following information:

Field name	R/O	User action and values	Comments
Plant	R	Enter your plant	
Material	R	Enter Material Code whose Recipe you want to edit, and for which you have to enter the formulae for Material Quantity Calculation.	
Key Date	R	Enter the key date from which the production version was valid.	

You enter the required information and press “ENTER”. System displays the Production Version for the selected material as shown below:

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Production Version: Mass Processing

Selection Conditions
Plant: AGP AGP
Material: 30000100

MRP Controller: Detailed plng:
Key date: 01.01.2006 Rate-based plng:
Production line: Rough-Cut Plng:

Production versions

Plant	Material	Pro	Text	Lock	M	P	C	Tes	C	Valid from	Valid to	From lot size	To lot size	Unit	Alte	B	A	Detailed	G	Type
AGP	3000100	0001	TEST B	Not 1						30.01.01.2006	31.12.9999	1.000	99,999,999.000	PAC	1	1		50000021	1	Master
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																

1 / 1

C223

You select the Production version whose Master Recipe you want to edit and click on the **Recipe** tab. System would display the following screen:

Selection Conditions
Plant: AGP AGP
Material: 30000100

MRP Controller: Detailed plng:
Key date: 01.01.2006 Rate-based plng:
Production line: Rough-Cut Plng:

Production versions

Plant	Material	Pro	Text	Lock	M	P	C	Tes	C	Valid fr	Valid to	From lot size	To lot size	Unit	Alte	B	A	Detailed	G	Type
AGP	30000100	0001	TEST B	Not 1						30.01.01										1 Master
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																
AGP				Not 1																

Parameters for recipe maintenance
Production Version: From 01.01.2006 To 31.12.9999
Key date: 01.01.2006
Specify key date for change status
Change Number:
☐ Use template when creating

You press "ENTER". System displays the Operations screen for the Master Recipe:

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Change Master Recipe: Recipe

Recipe Group: 50000021 ☐ Deletion Flag ☐ Long Text Exists

Recipe: 1 test finishfor BATCH

Plant: AGP AGP

Recipe header Operations Materials Administrative data

Ops	Opera	Ph	Sup	De	Resource	Co	Lo	Standar	Description	Lan	Rel	Clas	Obj	Base Qty	Act/
	0010				SCHEDLT1	P101			Pack 1 blister in preprinted carton					200,000	PAC
	0020		0010	01	SCHEDLT1	P101			BLISTER		X			200,000	PAC
	0030					P101					X			200,000	PAC
	0040					P101					X			200,000	PAC

You can edit any operation or phase those are there in the recipe.

You can change the following data for the operation:

Field name	R/O	User action and values	Comments
Resource	R	Change resource to be used by operation if required.	
Description	R	Change the description for the operation if required.	
Base Quantity	R	Change if required.	

Similarly, you can edit the following data for the phase by double clicking the phase # as shown on the screenshot below:

Field name	R/O	User action and values	Comments
Description	R	You may change the description for the phase if req.	
Duration for the activity types	R	You may change the duration for each activity type.	

You make the required changes for the phases and operations. You can also add or delete operations

and phases, if required. You can click on **Materials** tab if you desire to make any changes in either the material list or component assignment or material quantity calculations. System displays the following screen.

Change Master Recipe: Recipe

Recipe group: 50000017 ☐ Deletion Flag ☐ Long Text Exists

Recipe: 1 test SEMI FINISHED 4 ACTIVE ING MGMT

Plant: AGP AGP

Recipe header Operations Materials Administrative data

Material: 20000075 Plant: AGP

Prod. Version: 0001 AIM

Base quantity: 240,000 EA

BOM

Material Component Assignments																
Material	Op	P	Sup	Operation Desc.	Quantity	C	B	Item Text	Item Nu	Item C	Fix	Bu	C	O	Ph	Level
10000248	0020		0010	Mixing and Kneading	80 KG			test active material for Active Ing mgmt	0010	L						0
10000249	0020		0010	Mixing and Kneading	20 KG			test EXCEPIENT FOR ACTIVE ING MGMNT	0020	L						0

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You click on the  icon.

Change Master Recipe: Recipe

Recipe group	50000017	☐ Deletion Flag	☐ Long Text Exists
Recipe	1	test SEMI FINISHED 4 ACTIVE ING MGMT	
Plant	AGP	AGP	

Recipe header
Operations
Materials
Administrative data

Material	20000075	Plant	AGP		BOM
Prod. Version	0001 AIM				
Base quantity	240,000 EA				

Material Component Assignments

Material	Op.	P.	Sup.	Operation Desc.	Quantity	C.	B	Item Text	Item Nu.	Item C.	Fix	Bu.	C.	O	Ph	Level
10000248	0020	☒	0010	Mixing and Kneading	80 KG		☐	test active material for Active Ing mgmt	0010	L	☐	☐	☐	☐	☐	0
10000249	0020	☒	0010	Mixing and Kneading	20 KG		☐	test EXCEPIENT FOR ACTIVE ING MGMNT	0020	L	☐	☐	☐	☐	☐	0

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System displays the following screen:

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Change Master Recipe: Recipe

Recipe group: 50000017 ☐ Deletion Flag ☐ Long Text Exists
 Recipe: 1 test SEMI FINISHED 4 ACTIVE ING MGMT
 Plant: AGP AGP

Recipe header Operations Materials Administrative data

Material: 20000075 Plant: AGP
 Prod. Version: 0001 AIM
 Base quantity: 240,000 EA

Material	Op.	P.	Sup.	Operation Desc.	Quantity
10000248	0020	☒	0010	Mixing and Kneading	80
10000249	0020	☒	0010	Mixing and Kneading	20

Reassign

Item 0010 10000248

Reassign
 From Op./Phase 0020
 To Op./Phase

☒ Oper./act. list

You make the desired changes and go to the material quantity calculations icon.

System would display the following screen:

Material Quantity Calculation

Select formula Calculate Product Qty

Formula Definition
 240000.000
 001,001 20000075:Quantity

L...	Object description	T...	Item	F...	S	1:Quantity	U...	2:Potency	U...	3:Factor	U...	4:Phase
1	20000075	MT	0000		-	240000....	EA					
2	Granulation	OP	0010			240000....	EA					
3	...Mixing and Kneading	OP	0020			240000....	EA					
4	10000248	MT	0010			80.000	KG	100.000		1.000		
5	10000249	MT	0020			20.000	KG					

Select the cell where you want to insert the formula. Click on Select formula . Then click on Insert in formula tab. You enter the calculation formula and press “ENTER” key. System displays the formula icon highlighting that the formula has been generated as shown below:

Material Quantity Calculation

Formula Definition

L...	Object description	T...	Item	F...	S	1:Quantity	U...	2:Potency	U...	3:Factor	U...	4:Phase ..
1	20000075	MT	0000		-	240000....	EA					
2	Granulation	OP	0010			240000....	EA					
3	..Mixing and Kneading	OP	0020			240000....	EA					
4	10000248	MT	0010			80.000	KG	100.000		1.000		
5	10000249	MT	0020			20.000	KG					

You can define or edit any other formula in the similar fashion. You click on

System would bring you back on the following screen:

[Recipe](#)
[Edit](#)
[Goto](#)
[Extras](#)
[System](#)
[Help](#)

Change Master Recipe: Recipe

Recipe group
☐ Deletion Flag
 ☐ Long Text Exists
Recipe

Plant

Recipe header
Operations
Materials
Administrative data

Material
Plant

Prod. Version

Base quantity

Material Component Assignments

Material	Op	P	Sup	Operation Desc.	Quantity	C	B	Item Text	Item Nu	Item C
10000248	0020	☒	0010	Mixing and Kneading	80	KG	☐	test active material for Active Ing mgmt	0010	L
10000249	0020	☒	0010	Mixing and Kneading	20	KG	☐	test EXCEPIENT FOR ACTIVE ING MGMNT	0020	L

Click.  System would save the Production version saving all your changes in the recipe.



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