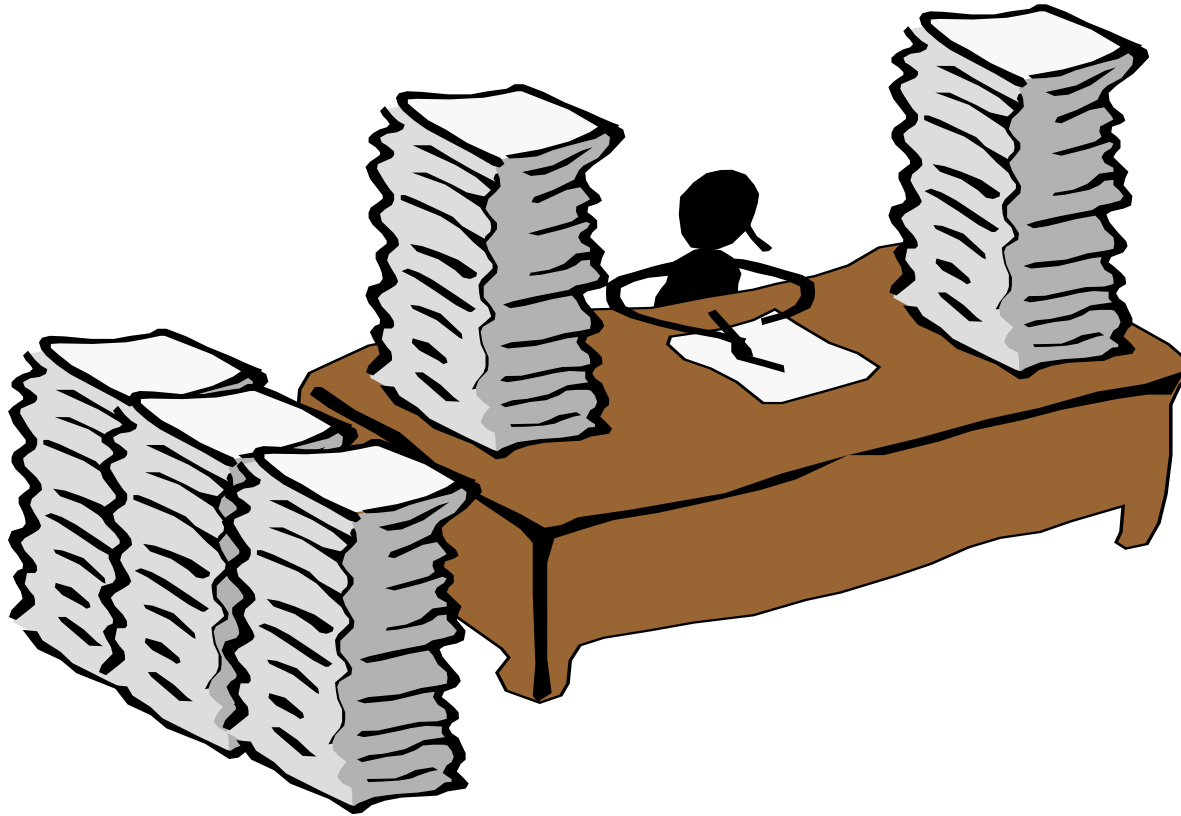


Batch Management



Course ID :PP1013_Batch_management

Lesson Objectives

- Objectives -On successful completion of this training module, you should have:
 - Understood the basics of SAP Batch Management
 - Process flow in Batch management
 - Batch level features
 - Batch search strategy



Training Agenda

- What is Batch Management
- What is the use of Batch Management
- What are the challenges in Batch management
- Process flow in Batch management
- Batch level features



Training Agenda

- Batch Number assignment
- Batch specifications
- Batch master records
- Batch Status management
- Batch determination
- Batch determination Process flow

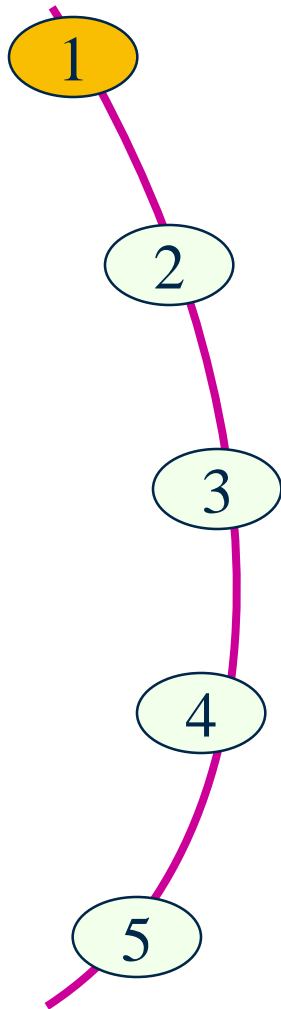
Training Agenda

- Batch search strategy
- Batch determination- inventory& Warehouse management
- Batch determination – Transfer Order
- Batch Specific material units of measure
- Material master Setting
- Creation of Batch

Training Agenda

- Inventory Management
- Warehouse management
- Batch determination for goods issue
- Customizing Data for Batch Management
- Define Batch Creation for Goods Movements
- Define Initial Creation of Data for Batch Master Transactions
- Activate Batch-Specific Material Unit of Measure

Batch Management



PrepareMe

TellMe

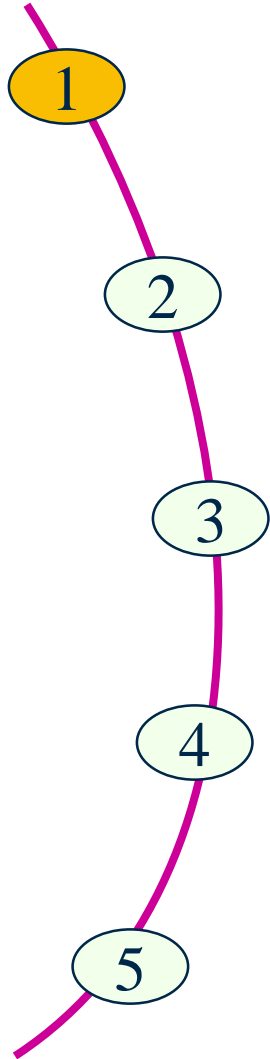
ShowMe

LetMe

HelpMe



Batch Management



PrepareMe

TellMe

ShowMe

LetMe

HelpMe



Batch Management



Batch is defined as the quantity of a certain material or product which is produced or procured according to the same specifications and this represents one homogenous, non- reproducible unit with unique specifications.

Use:



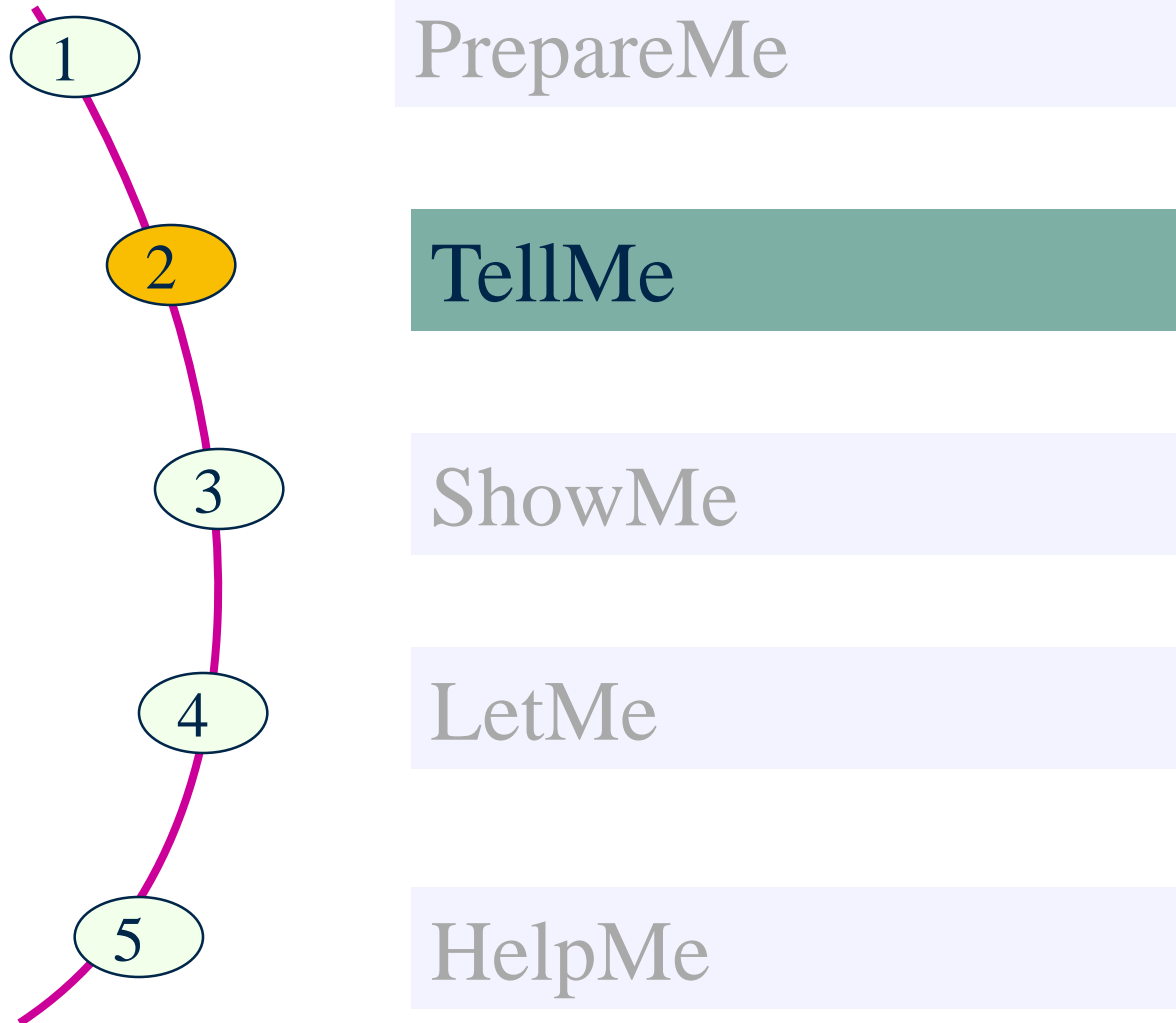
- Legal requirements (for example, the guidelines set out by GMP (Good Manufacturing Practice) or regulations on hazardous material)
- Defect tracing, callback activities, and regression requirement
- The need for differentiated quantity-and value-based Inventory Management
- Differences in usage and the monitoring thereof in materials planning in SD and Production.
- Production or procedural requirements (for example, settlement of material quantities on the basis of different batch specifications)

Challenges

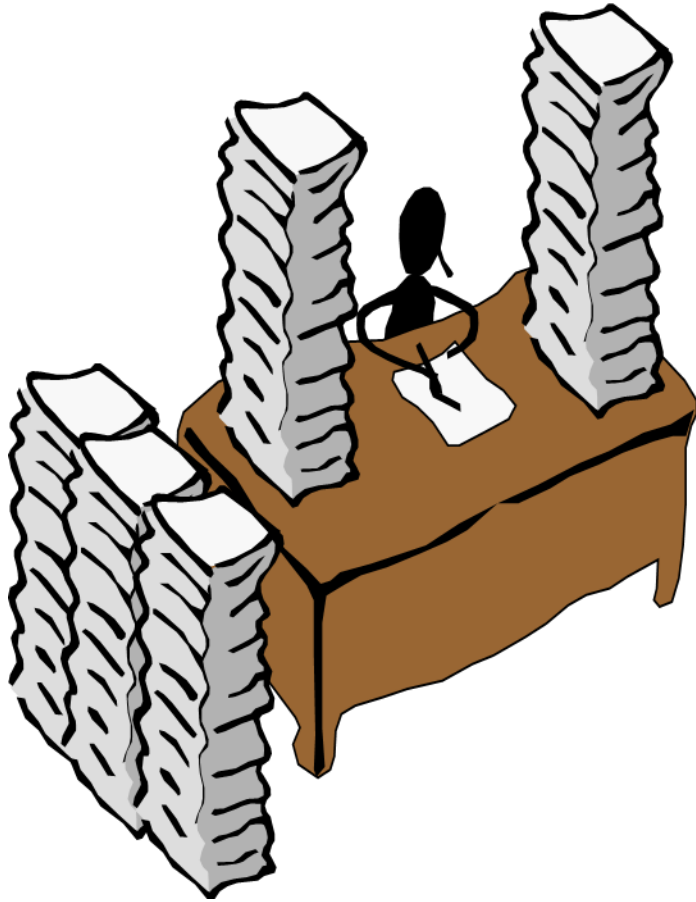


- 1. For which Process batch Management will be used ?
- 2. How to use Batch Management?
- 3. What is Batch search Strategy ?
- 4. How to determine Batch for Inventory & Warehouse Management.?

Batch Management



Batch



- The batch object contains the following key fields
 - Material
 - Batch
 - Plant

 - Batches
 - Always assigned to a material
 - Can only be used for materials that are to be handled in batches.

Batch Management – Process Flow

Sales & Distribution

- A sales order for a material subject to handling in batches is posted.
Run a batch determination, as well as a batch availability and usability check. The system determines that the sales order cannot be met with the present stock.
- A requirement is transferred to production

Production

- A production order is created for the material to be handled in batches due to the posted sales order.
- A batch number can be assigned for the quantity of material to be produced.
- As raw materials with certain specifications are required for the manufacture of this material, batch determination is triggered.
- If a sufficient quantity of raw material is available, the selected batches are reserved for the production or process order

Batch Management – Process Flow

Quality Management

- The batch produced is subject to a quality inspection for final release.
- The inspection results are recorded.
- A usage decision is made

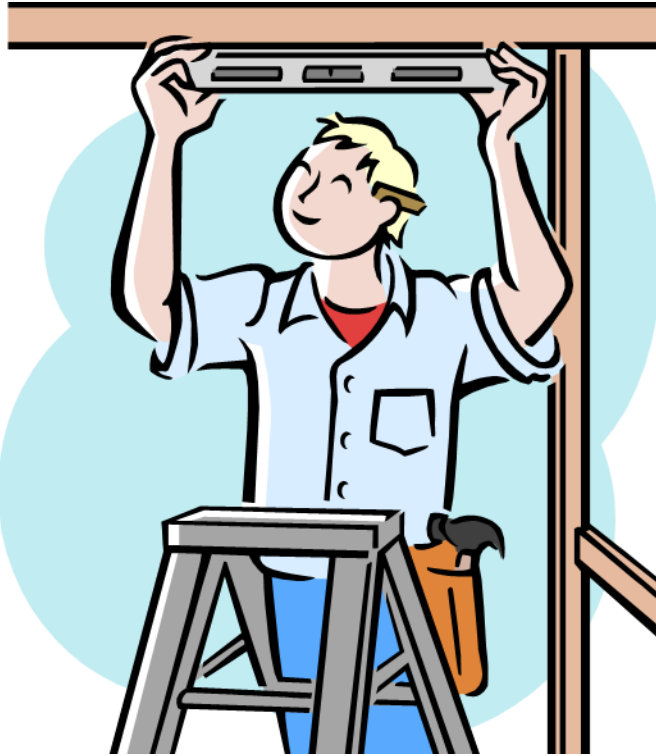
Inventory management

- The batch produced is posted to the stock in quality inspection.
- An inspection lot is created.
- The batch produced is posted to unrestricted-use stock.
- The goods issue for the batch of raw material required by production is posted.

Warehouse Management

- Using the transport requirement, the batch of raw materials is provided at the correct time and date

Batch Level - Features



Material level:

The batch number is unique in all plants in connection with the material.

Client level:

The batch number is unique in the whole client.

Batch Number Assignment



Batch is defined by a Batch Number

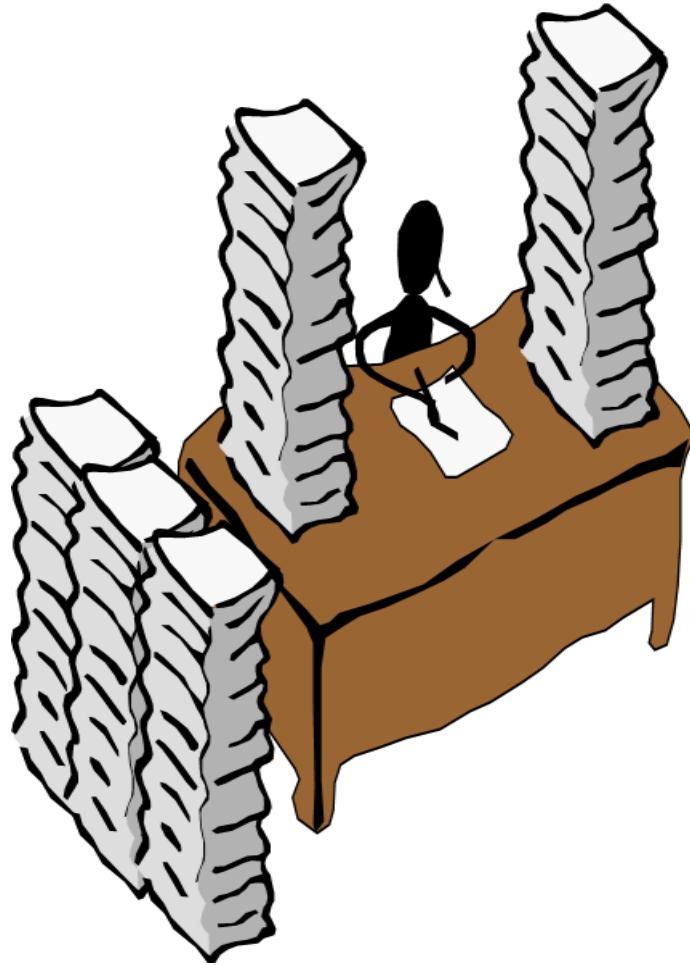
Batch number can be assigned during

- Manual creation of a batch
- When carrying out goods movements, for example, goods receipt or transfer posting
- Creation of a production order
- When a usage decision is made in quality management
- Quality analysis
- Creating a purchase order

Can assign the batch number either:

- Manually or
- Automatically using the Internal Batch Number Assignment function

Batch Specifications



- Batch specifications describe the technical, physical and/or chemical properties of a batch.
- Can store batch specifications, such as batch status or active ingredient potency, as characteristics in the Classification System
- The classification system is used to assign the material specifications to the material of a batch. These material specifications are assigned to the same class as the batches of the materials. Thus one can store the target values of a batch with the respective tolerance range. These target values are, for instance, used in quality inspection or during the goods receipt transaction, if it is necessary to immediately classify a batch. The values are also employed for the usability check.

Batch Master Record



- Can only create batches and batch master records for a material if the material is to be handled in batches.
- Set the Batch management indicator in the material master record.
- Batch Master Record can be created
 - Manually
 - In background

Batch Master Record

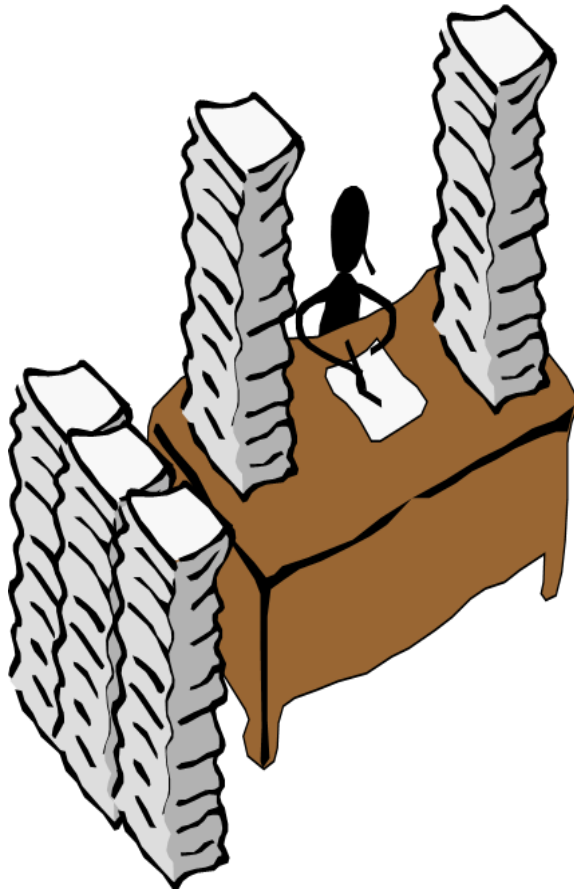


- The system creates a batch master record in the background in the following procedures:
 - The first time goods are received for a batch
 - During creation of a production order
 - When a usage decision is made in quality management
 - During a recurring inspection
 - For transfer postings (when you want to split a batch, for example)
 - When creating a purchase order

Batch Status Management

- Batch Status is used
 - To indicate whether a batch is usable or not
 - To prevent goods movements for batches that are not usable, as well as their delivery to customers and their use in Production
- Batch Status
 - Status unrestricted = the batch can be used
 - Status restricted = the batch cannot be used
- Stock Types
 - Unrestricted stock
 - Restricted stock
- Stock Update
- Transfer Postings
- Batch Status and Availability Check

Batch Determination

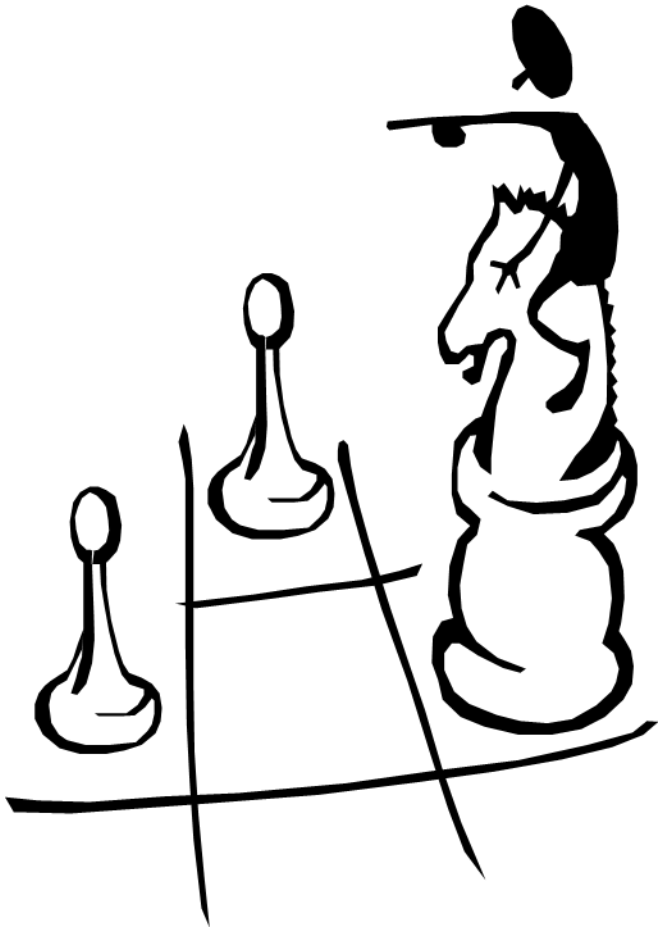


- Batch determination is used for all types of goods movements from the warehouse
- Batch Determination is carried out in
 - Inventory Management
 - Production
 - Sales & Distribution
 - Warehouse Management
- Prerequisites
 - Assign a search procedure to the business transaction
 - Batch search strategy must exist for one of the strategy type
 - The selection class must contain at least one of the characteristics with which the batch was classified

Batch Determination Process Flow

- Start batch determination manually, or the system starts automatic batch determination.
- The system then carries out the following steps in succession:
 - it looks for a search procedure for the business transaction
 - it searches through the strategy types listed in the search procedure for a search strategy. The first valid search strategy is adopted and all other search strategies are ignored.
 - it then uses the characteristics from the selection class of the search strategy to look for batches with suitable specifications
 - it checks whether the batches are available
 - it sorts the batches that were found and are available according to the sort rule from the search strategy
 - the system selects a proposed quantity in accordance with the proposed quantity from the search strategy.
 - the system proposes that batch determination is to run online, providing that the search strategy contains the information

Batch Search Strategy



- Batch search Strategy is used to define rules for batch determination in particular business transactions. Specify:
 - The conditions under which batch determination is to be triggered
 - The search criteria that are to be used

Batch Determination-Inventory & Ware house Management



- Inventory Management
 - Used only for goods issues
 - Withdrawal for production
 - Internal material provision
 - Return delivery to supplier
 - Scrapping/sampling
 - Transfer posting
- Warehouse Management :
 - If optimum stock removal strategy takes precedence over other factors such as customer specifications

Batch Determination- Transfer Order

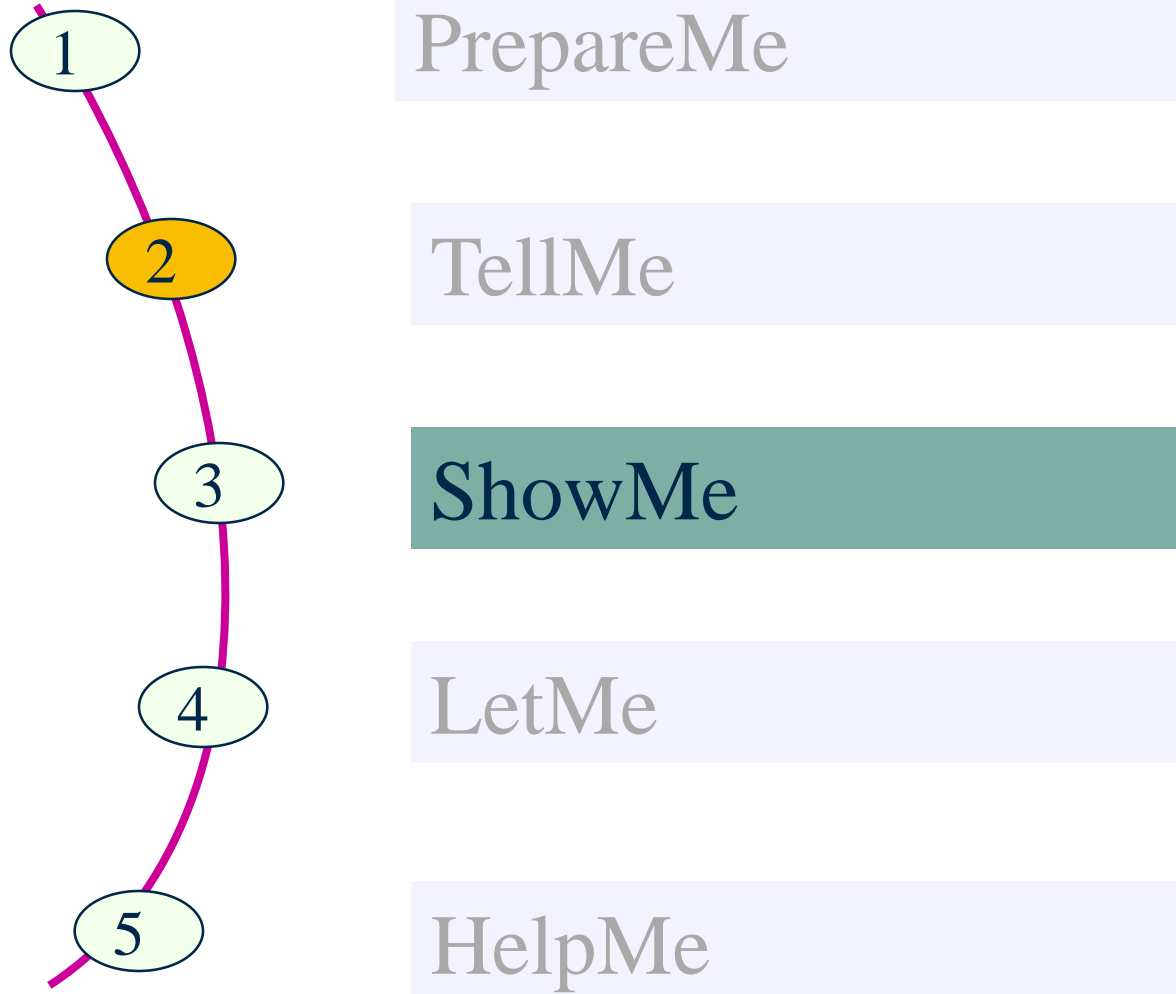


- Batch determination is always carried out
 - automatically
 - background
- Batch Determination Without Reference Documents
- Batch Determination with Reference Documents
 - Deliver
 - Production Order

Batch-Specific Material Units of Measure

- Alternative units of a material for which the conversion ratio to the base unit of measure can be defined on a batch-specific basis.
- Batch-specific material units of measure are:
 - Proportion units
 - Units of measure in which you can enter proportions of the base unit of a material. The total quantity or physical quantity may be made up of several proportions
 - Product units
 - Unit of measure that describes the total quantity of a material as an alternative to the base unit of measure

Batch Management



Material Master Setting-MM01

SAP

Material Edit Goto Environment System Help

Display Material A01 (Semifinished products)

Additional data Organizational levels

Basic data 2 Purchasing Foreign trade import Purchase order text M

Material: A01 FORGING HALF WHEEL
Plant: 1000 MB - FAL

General Data

Base Unit of Measure	ST	items	Order Unit		Var. OUn
Purchasing Group	121		Material Group	HHZ	
Plant-sp.matl status			Valid from		
Tax ind. f. material			Qual.f.FreeGoodsDis.		
Material freight grp					

☒ Batch management

Purchasing values

Purchasing value key	4	Shipping Instr.	
1st Rem./Exped.	10	days	Underdel. Tolerance 5.0 percent
2nd Reminder/Exped.	20	days	Overdeliv. Tolerance 5.0 percent
3rd Reminder/Exped.	30	days	Min. Del. Qty in % 0.0 percent
StdValueDelivDateVar	0	days	<input type="checkbox"/> Unltd Overdelivery <input type="checkbox"/> Acknowledgment Reqd

Other data / manufacturer data

QR Processing Time	0	days	<input type="checkbox"/> Post to insp. stock <input type="checkbox"/> Critical Part
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Tick the Batch Management in Material Master in Purchasing view and Plant data Stor. 1 Views

SAP

Material Edit Goto Environment System Help

Display Material A01 (Semifinished products)

Additional data Organizational levels

Basic data 2 Purchasing Foreign trade import Purchase order text M

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Plant-sp.matl status			Valid from		
Tax ind. f. material			Qual.f.FreeGoodsDis.		
Material freight grp					

☒ Batch management

Purchasing values

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1st Rem./Exped.	10	days	Underdel. Tolerance 5.0 percent
2nd Reminder/Exped.	20	days	Overdeliv. Tolerance 5.0 percent
3rd Reminder/Exped.	30	days	Min. Del. Qty in % 0.0 percent
StdValueDelivDateVar	0	days	<input type="checkbox"/> Unltd Overdelivery <input type="checkbox"/> Acknowledgment Reqd

Other data / manufacturer data

QR Processing Time	0	days	<input type="checkbox"/> Post to insp. stock <input type="checkbox"/> Critical Part
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Creation of Batch-MSC1N

SAP

Batch Edit Goto Environment System Help

Create Batch

Material A01 Ref. material

Plant 1000 Reference plant

Batch 200 Reference batch

Stor. Location

Basic data 1 Basic data 2 Classification Material data

SAP

Batch Edit Goto Environment System Help

Create Batch

Material A01 FORGING HALF WHEEL

Plant 1000 MB - FAL

Batch 200

Basic data 1 Basic data 2 Classification Material data

Expiration Date

Production Date

Shelf Life Exp. Date

Available From

Period Indicator 0

Miscellaneous

Next Inspection

Trading Data

Vendor Ctry of origin

Vendor Batch Reg. of origin

Last Goods Receipt Exclimp group

MBC1

SAP

Batch search strat. Edit Goto Environment System Help

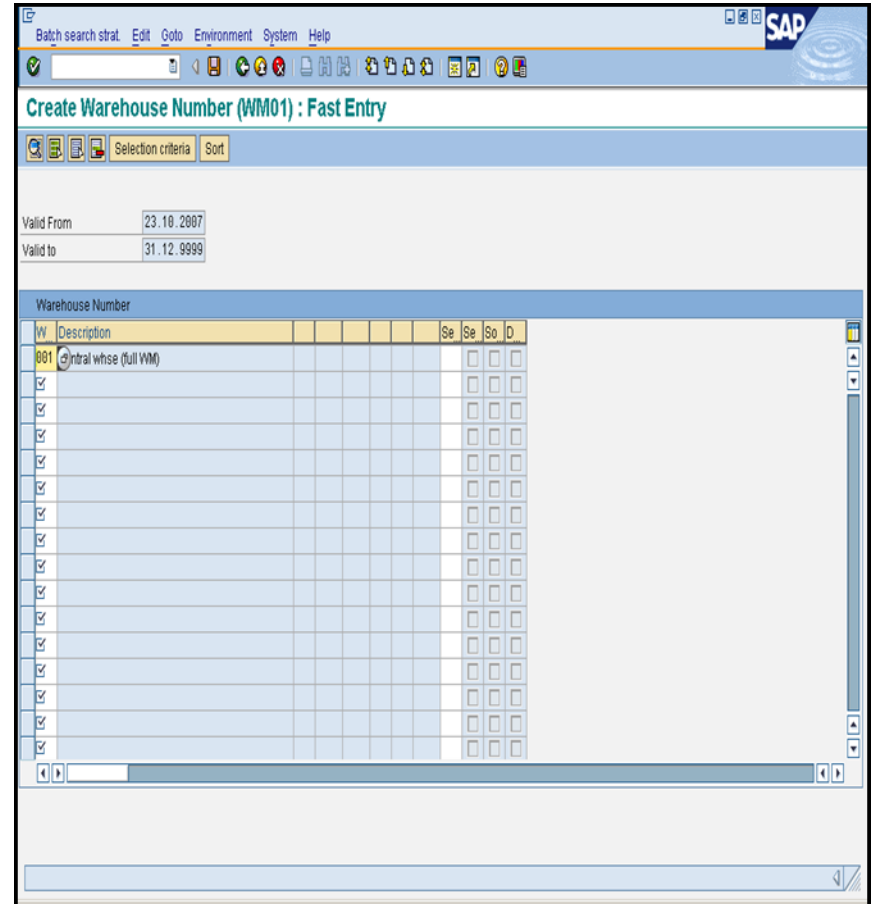
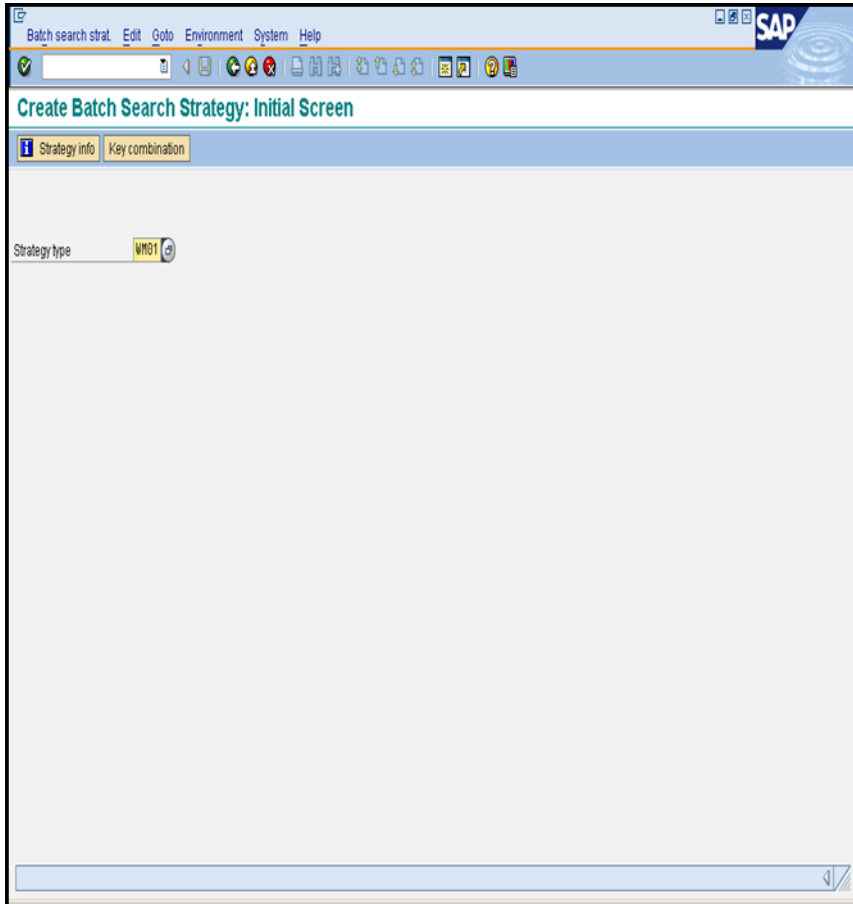
Create Plant (ME02) : Fast Entry

Selection criteria Sort

Valid From 23.10.2007
Valid to 31.12.9999

Plant											
	Plant	Description	N	Ch	Dial	DI	Q	Ove	Se	So	D
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Batch Search Strategy - Warehouse Management - LS51



Batch Determination for Goods Issues -MIGO

Goods Receipt Settings System Help

SAP

Goods Issue Other - Vinay THAKUR

Show Overview Hold Check Post Help

A07 Goods Issue R10 Other GI scrapping 551

General

Document Date 23.10.2007 Material Slip
Posting Date 23.10.2007 Doc.Header Text
3 Collective Slip GR/GI Slip No.

Line	Mat. Short Text	WOK	Qty in UnE	E...	S	SLoc	Cost Center	Bus...	Profit Center	G/L Account	Batch
1	FORGING HALF WHEEL	<input type="checkbox"/>	<input checked="" type="checkbox"/> 1	ST		Mag reception					

Delete Contents

Material Quantity Where Batch Account Assignment

Batch 200

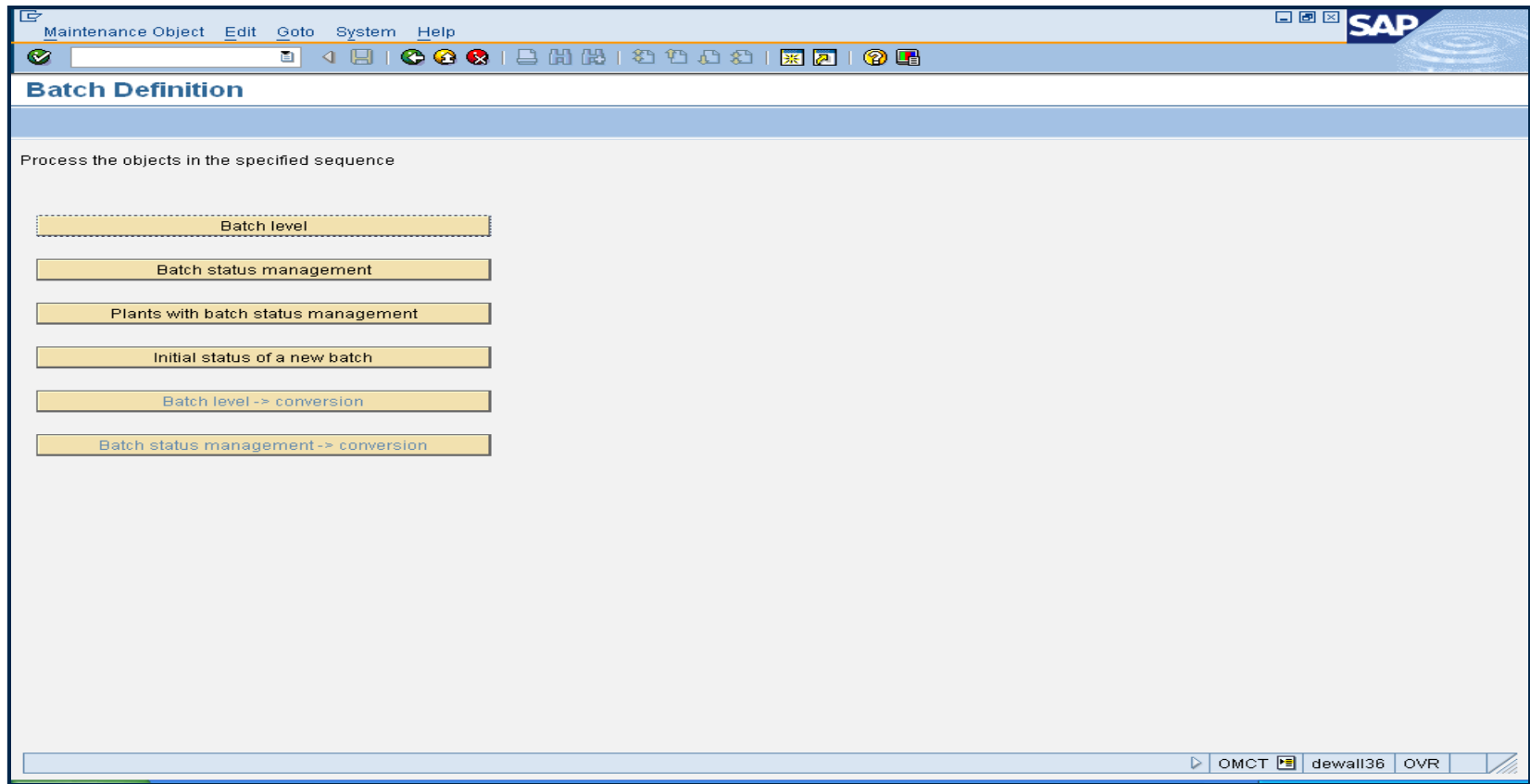
☐ SU Batch

Customizing Data for Batch Management



Configuration Data

Batch Level



Define Batch Creation for Goods Movements

The screenshot shows the SAP 'Change View' for 'Definition of initial data creation for batch per mvmnt t'. The interface includes a menu bar (Table View, Edit, Goto, Selection, Utilities(M), System, Help) and a toolbar. The main area displays a table with columns 'Mv...' and 'New Batch'. A legend box is open, showing options A through G, with 'Automatic / manual without check' selected. The table lists various movement types (101-109, 132, 141, 142, 161, 162, 201) and their corresponding batch creation settings. The status bar at the bottom indicates 'Entry 1 of 262' and 'SPRO dewall36 INS'.

Mv...	New Batch
101	Automatic / manual without check
102	Automatic / manual without check
103	Automatic / manual without check
104	Automatic / manual without check
105	Automatic / manual without check
106	Automatic / manual without check
107	Automatic / manual without check
108	Automatic / manual without check
109	Automatic / manual without check
132	Automatic / manual without check
141	Automatic / manual without check
142	Automatic / manual without check
161	Automatic / manual without check
162	Automatic / manual without check
201	Automatic / manual without check

Legend:

- A Automatic / manual and check against external number range
- B Automatic / manual and check in USER EXIT
- C Automatic / no manual creation
- D Manual without check
- E Manual and check against external number range
- F Manual and check in USER EXIT
- G No creation
- Automatic / manual without check**

Define Initial Creation of Data for Batch Master Transactions

Table View Edit Goto Selection Utilities(M) System Help

SAP

Change View "Definition of Initial Batch Data Creation in Batch Master"

Definition of Initial Batch Data Creation in Batch

Matl.	New batch
ABF	Automatic / manual without c...
CH00	Automatic / manual without c...
CONT	Automatic / manual without c...
COUP	Automatic / manual without c...
DIEN	Automatic / manual without c...
EPA	Automatic / manual without c...
ERSA	Automatic / manual without c...
FERT	Automatic / manual without c...
FFFC	Automatic / manual without c...
FGTR	Automatic / manual without c...
FHMI	Automatic / manual without c...
FOOD	Automatic / manual without c...
FRIP	Automatic / manual without c...
GBRA	Automatic / manual without c...
HALB	Automatic / manual without c...
HAWA	Automatic / manual without c...
HERB	Automatic / manual without c...
HERS	Automatic / manual without c...
HIBE	Automatic / manual without c...

Position...

Entry 1 of 60

Activate Batch Status Checking in Warehouse Management

Table View Edit Goto Selection Utilities(M) System Help

Change View "Movement Type Control in WM: View Batch Control": Overview

VV	MTy	Description	Search	Status
001	91	GR Shipping Unit		<input checked="" type="checkbox"/>
001	92	GI Shipping Unit		<input type="checkbox"/>
001	93	Putaway HU		<input type="checkbox"/>
001	94	Pick HU		<input type="checkbox"/>
001	99	Repack		<input type="checkbox"/>
001	101	Goods Receipt for Pur.Or.		<input type="checkbox"/>
001	102	Cancel GR for Pur. Order		<input type="checkbox"/>
001	103	GR Production Order		<input type="checkbox"/>
001	104	Cancel GR Production Ord.		<input type="checkbox"/>
001	201	GI to Cost Center	ZWM001	<input type="checkbox"/>
001	202	Cancel GI to Cost Center		<input type="checkbox"/>
001	231	GI to Sales Order		<input type="checkbox"/>
001	232	Cancel GI to Sales Order		<input type="checkbox"/>
001	241	GI to Fixed Assets		<input type="checkbox"/>
001	242	Cancel GI to Fixed Assets		<input type="checkbox"/>
001	255	GI General		<input type="checkbox"/>
001	256	Cancel GI General		<input type="checkbox"/>

Position... Entry 1 of 7.349

SPRO dewall36 INS

Batch Strategy Types- Inventory Management

SAP

Table View Edit Goto Selection Utilities(M) System Help

Change View "Strategy Types (&1 &2)": Overview

New Entries

Application ME Inventory Management

SType	Description
CPJ1	Strategy type for CP
ME01	MovType/PlntMatlNo.
ME02	Plant
P178	Condition type 178
Z001	MovType/MatLRAD.GDe
ZMM1	MovType/PlantMat.N

Position... Entry 1 of 6

SPRO dewall36 INS

SAP

Table View Edit Goto Selection Utilities(M) System Help

Change View "Strategy Types (&1 &2)": Details

New Entries

Application ME Inventory Management

Condit. type ME01 MovType/PlntMatlNo. Access seq. ME01 MovType/PlantMateria

Selection

Class Type 023 Batch

Class DIMENSIONS Maint.

Selection type

Sorting

Sort sequence Maint.

Batch split

No. of splits 5 ☒ Changes allowed ☐ OverDel allowed

Quantity proposal

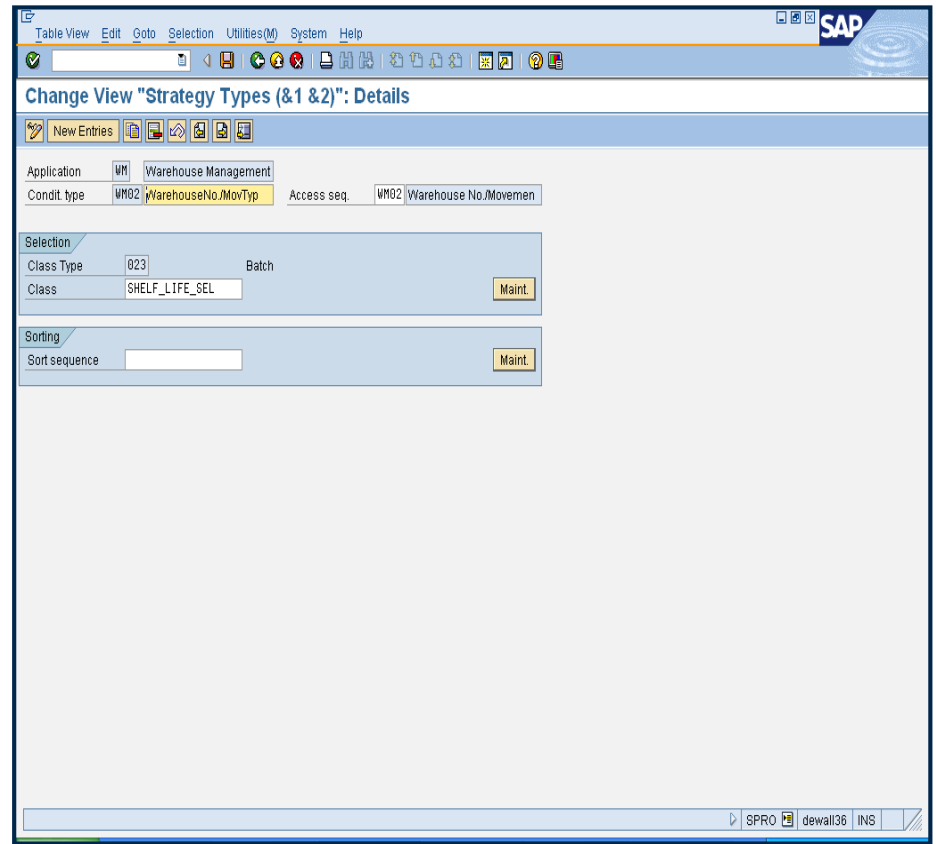
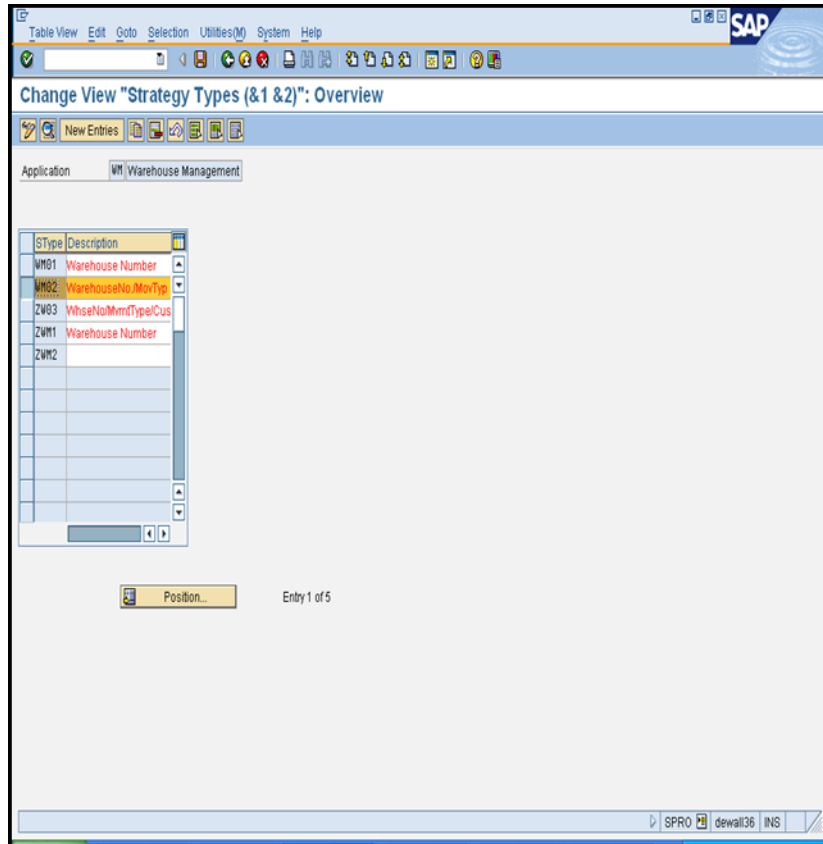
Display UoM 8 ☒ Dialog batch determin. Qty proposal 1 Maint.

Presentation

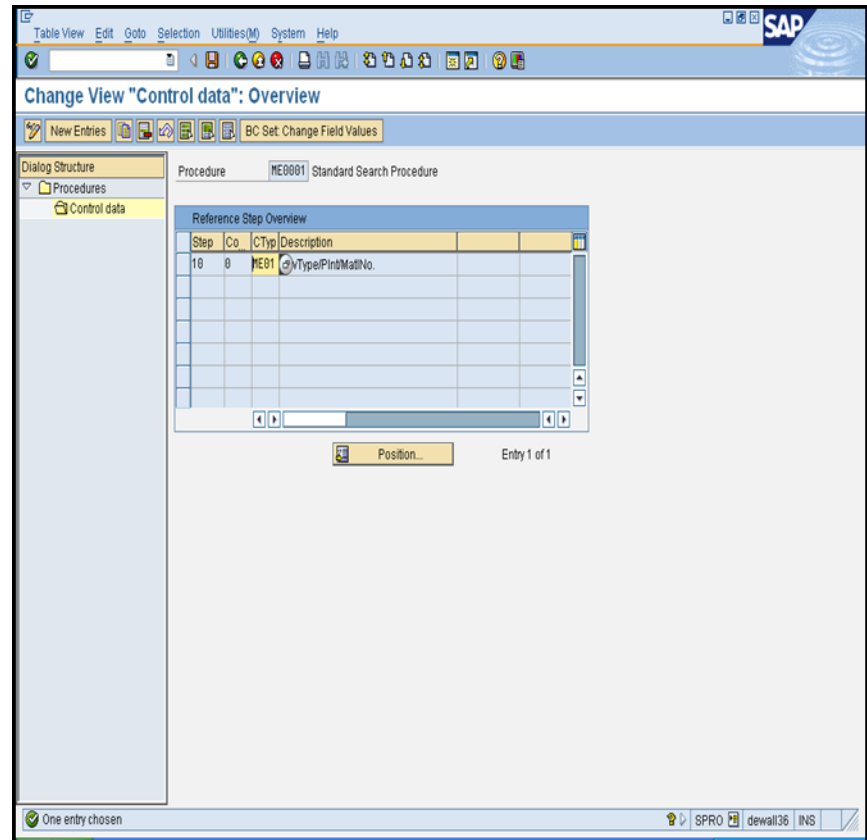
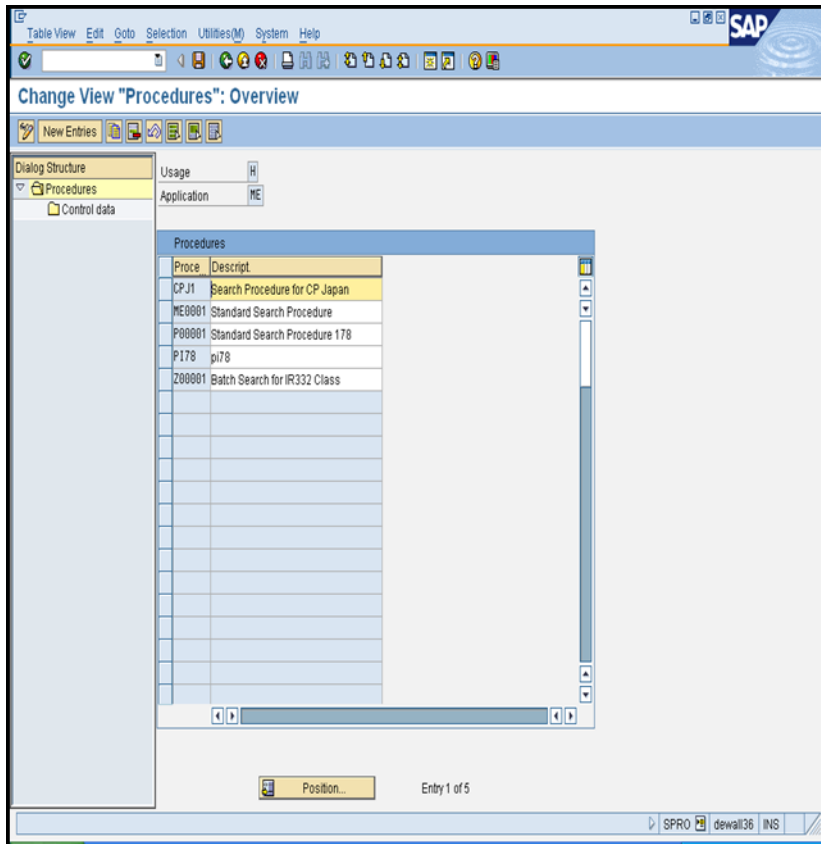
Screen number 2000 Status CUA_ME

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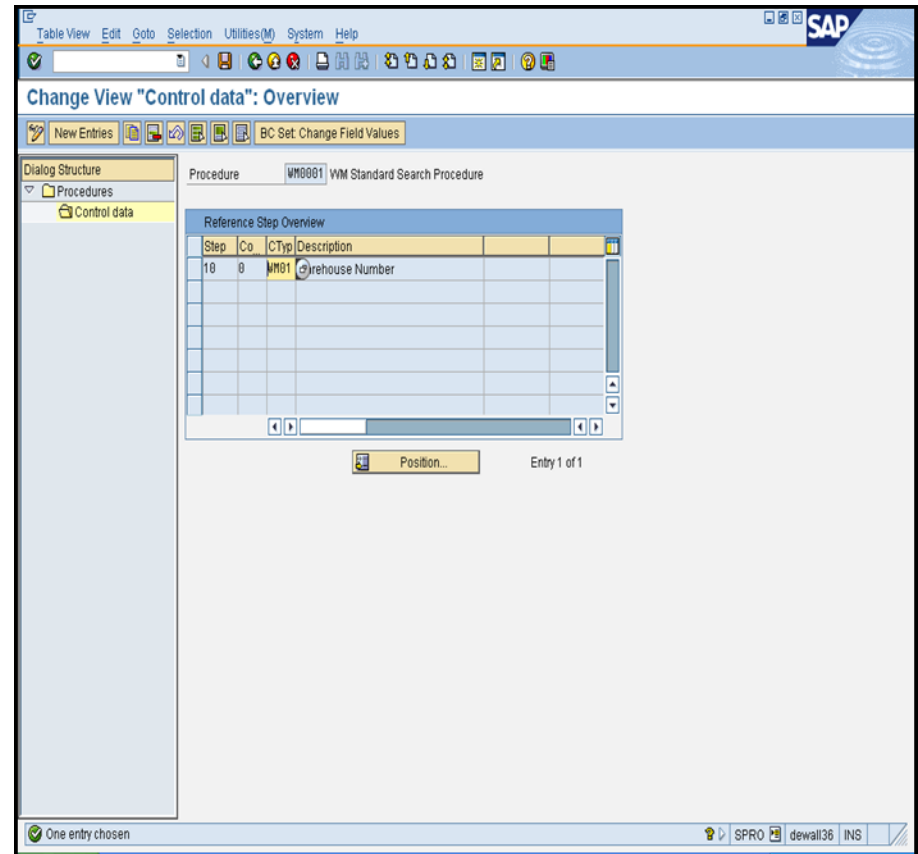
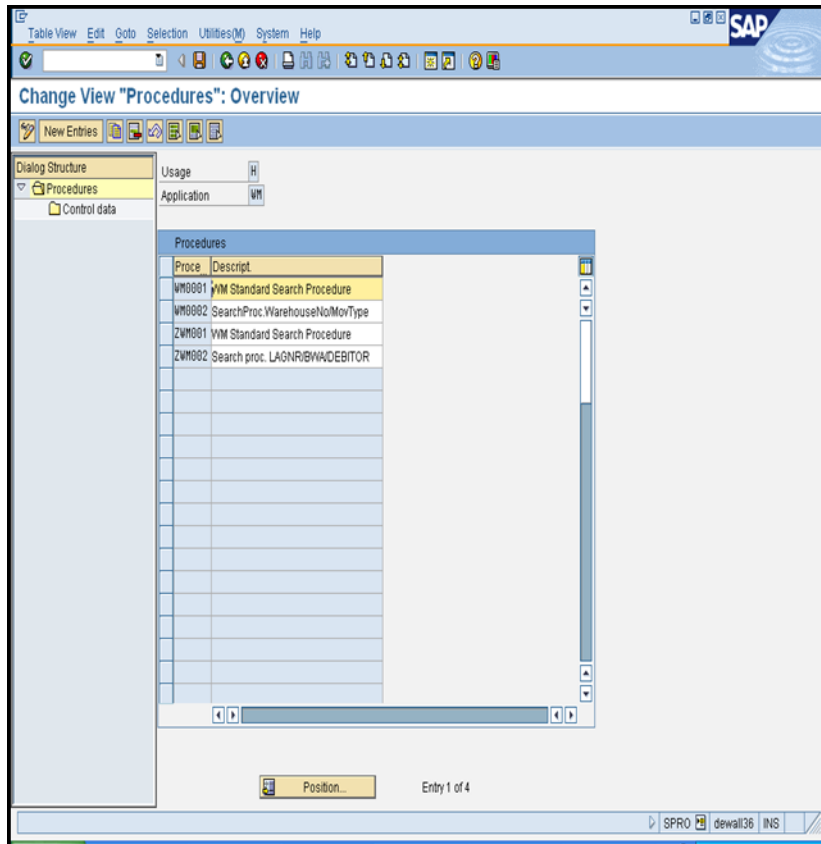
Batch Strategy Types -Warehouse Management



Batch Strategy Search Procedure- Inventory Management



Batch Strategy Search Procedure- Warehouse Management



Batch Where-Used List

Table View Edit Goto Selection Utilities(M) System Help

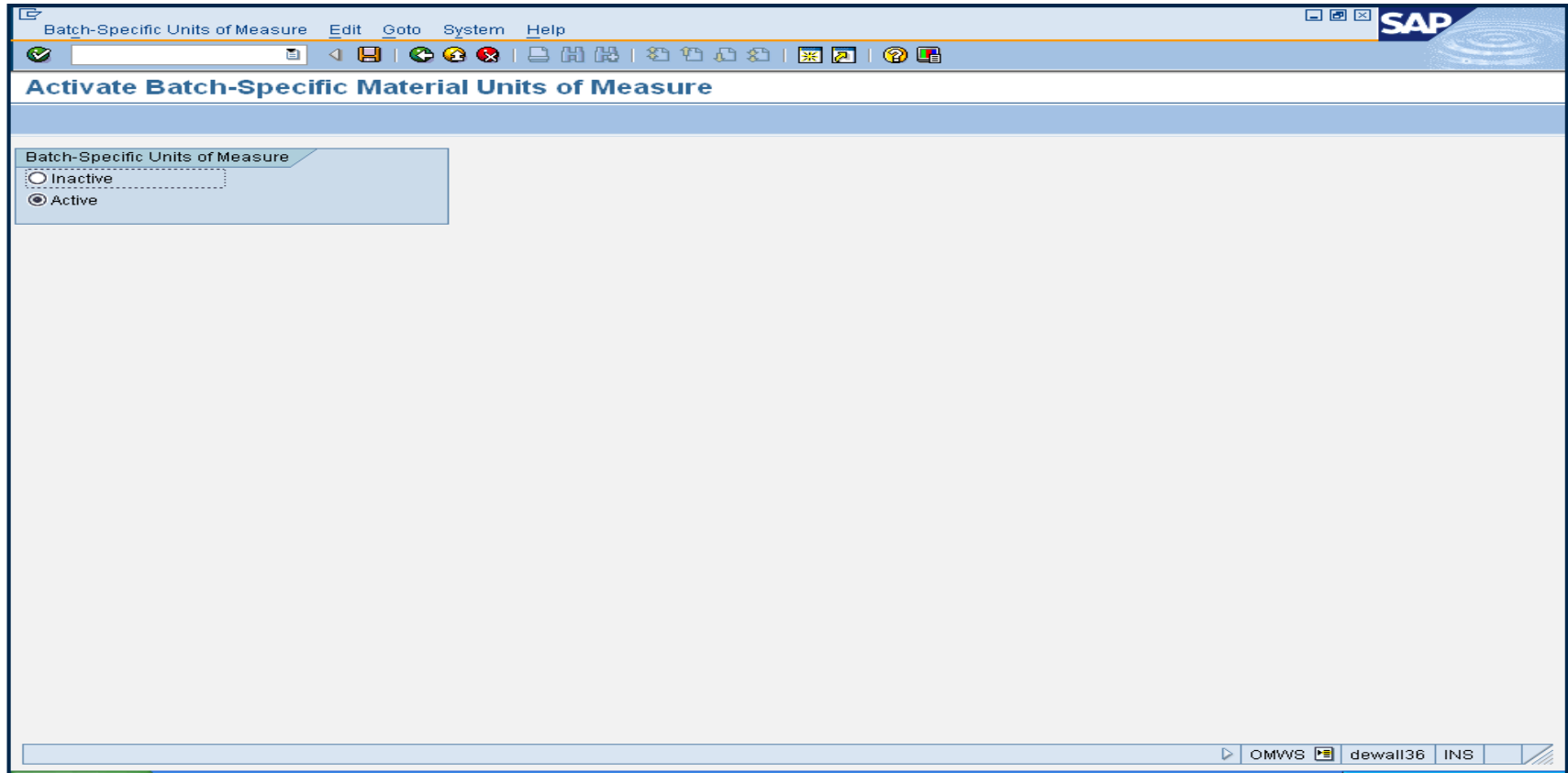
Change View "Batch Where-Used List": Overview

Pint	Name 1	BaWU synchron.postng	BaWU deactivated
0001	Werk 0001	<input type="checkbox"/>	<input type="checkbox"/>
0003	PSR_Test Plant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0005	Hamburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0006	New York	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0007	Werk Hamburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0008	New york	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0101	IFB Home Appliances	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0202	Bangalore	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0606	IFB Automotive	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1000	Werk Hamburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1001	1001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1100	Berlin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1103	Manoj Mahape	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1111	surya plant1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
112	Werk Hamburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1200	Dresden (TAV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1300	Frankfurt	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1313	Kolkata Plant	<input checked="" type="checkbox"/>	<input type="checkbox"/>

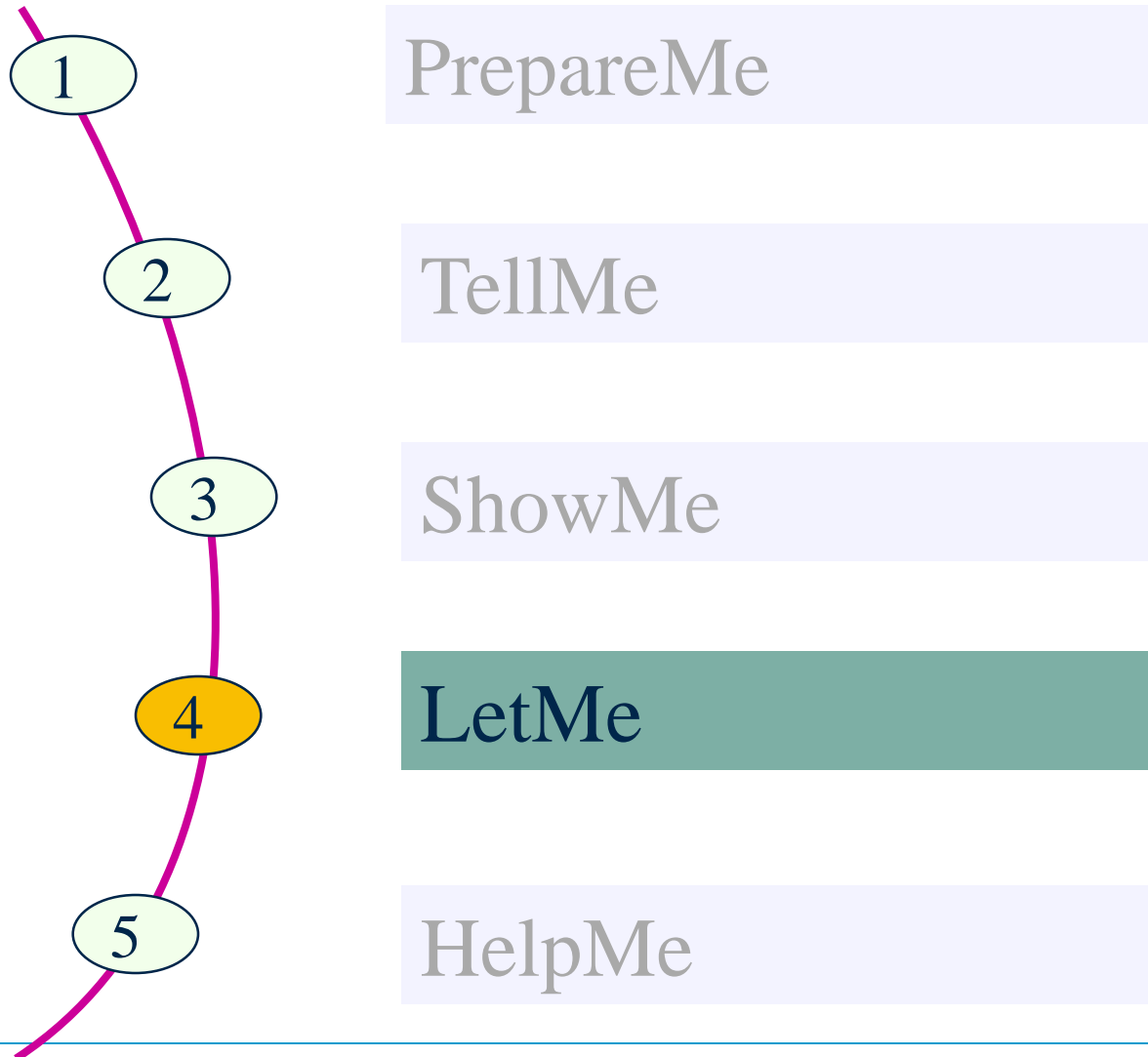
Position... Entry 1 of 319

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Activate Batch-Specific Material Unit of Measure



Batch Management

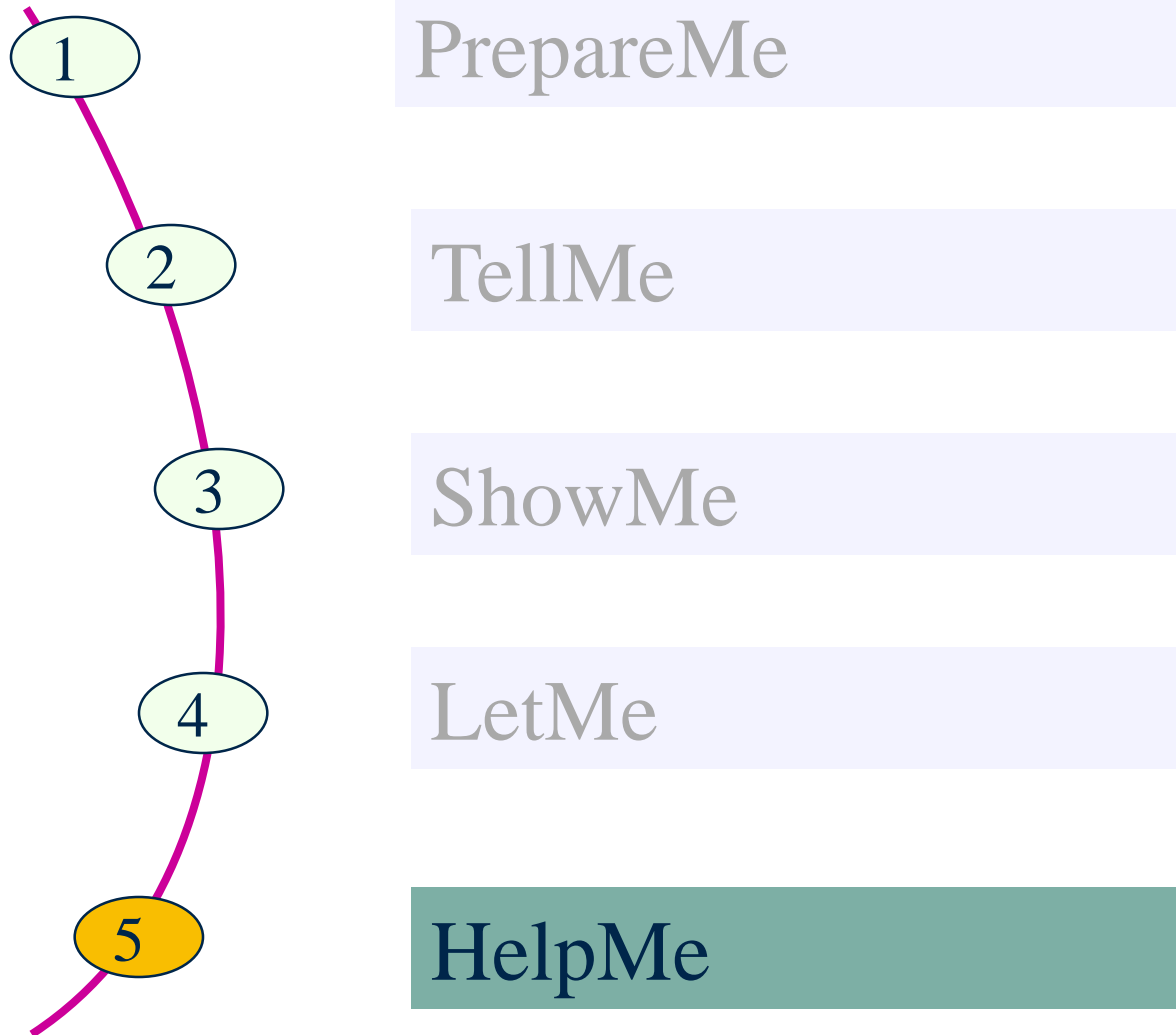


Let Me- Batch Management

MNC Corporation has 2 Plants in USA. Each Plants have 2 Storage Locations.
Carryout Batch Management Procedure

- 1) Tick the Batch Management in Material Master
- 2) Create Batch (MSC1N)
- 3) Create Batch Determination Strategy for Inventory Management (MBC1)
- 4) Create Batch Determination Strategy for Warehouse Management (LS51)
- 5) Create Pick up List (MB5C)
- 6) Maintain Batch-specific Units of Measure (MM02)

Batch Management



Help Me

Some Useful Batch Management Transaction

- The report RM07MMHD provides an overview of the remaining shelf life of batches.
- Availability Overview –CO09

Batch Management

Question?



Batch Management

THANK YOU

