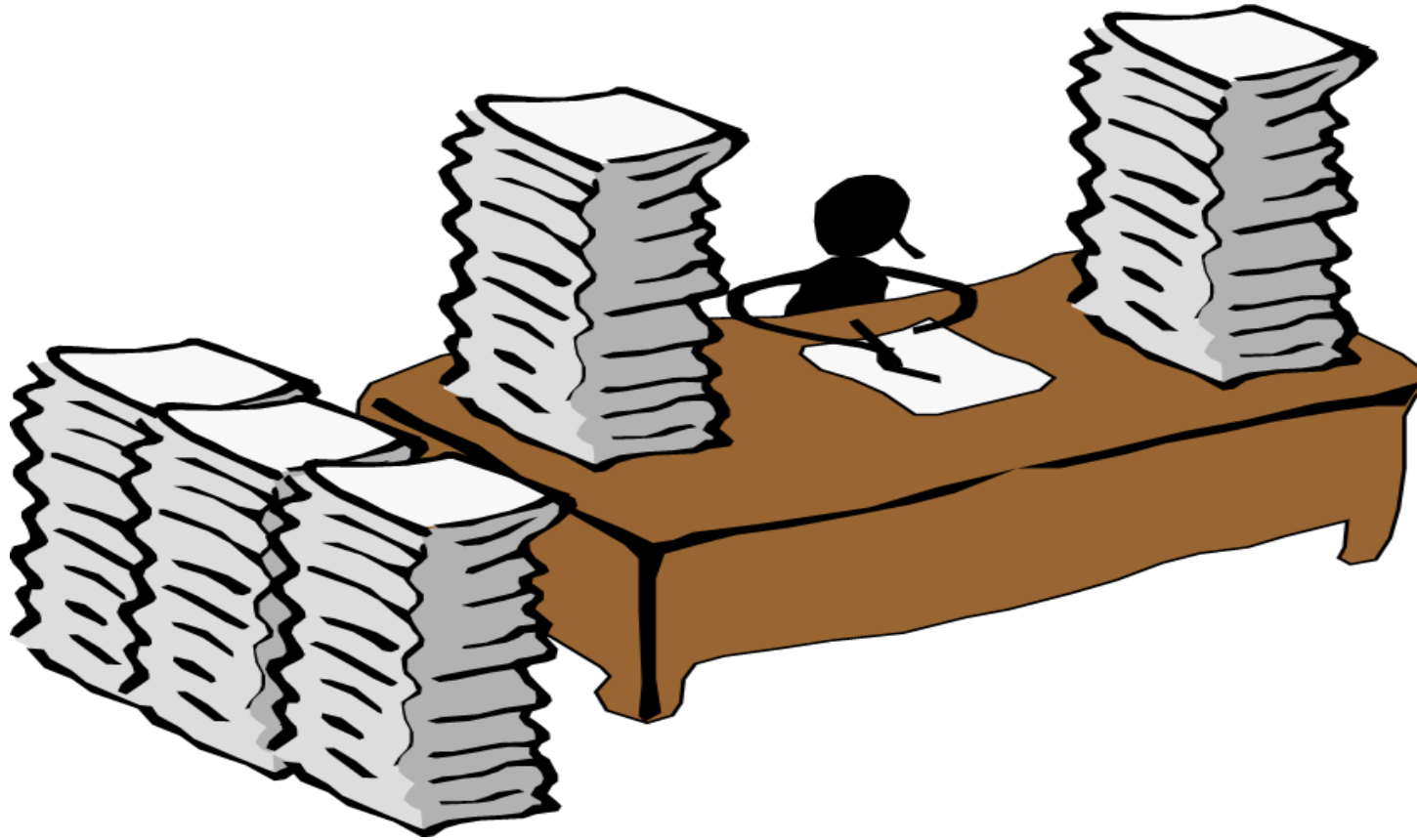


MM2009 - Batch Management – ver1.0

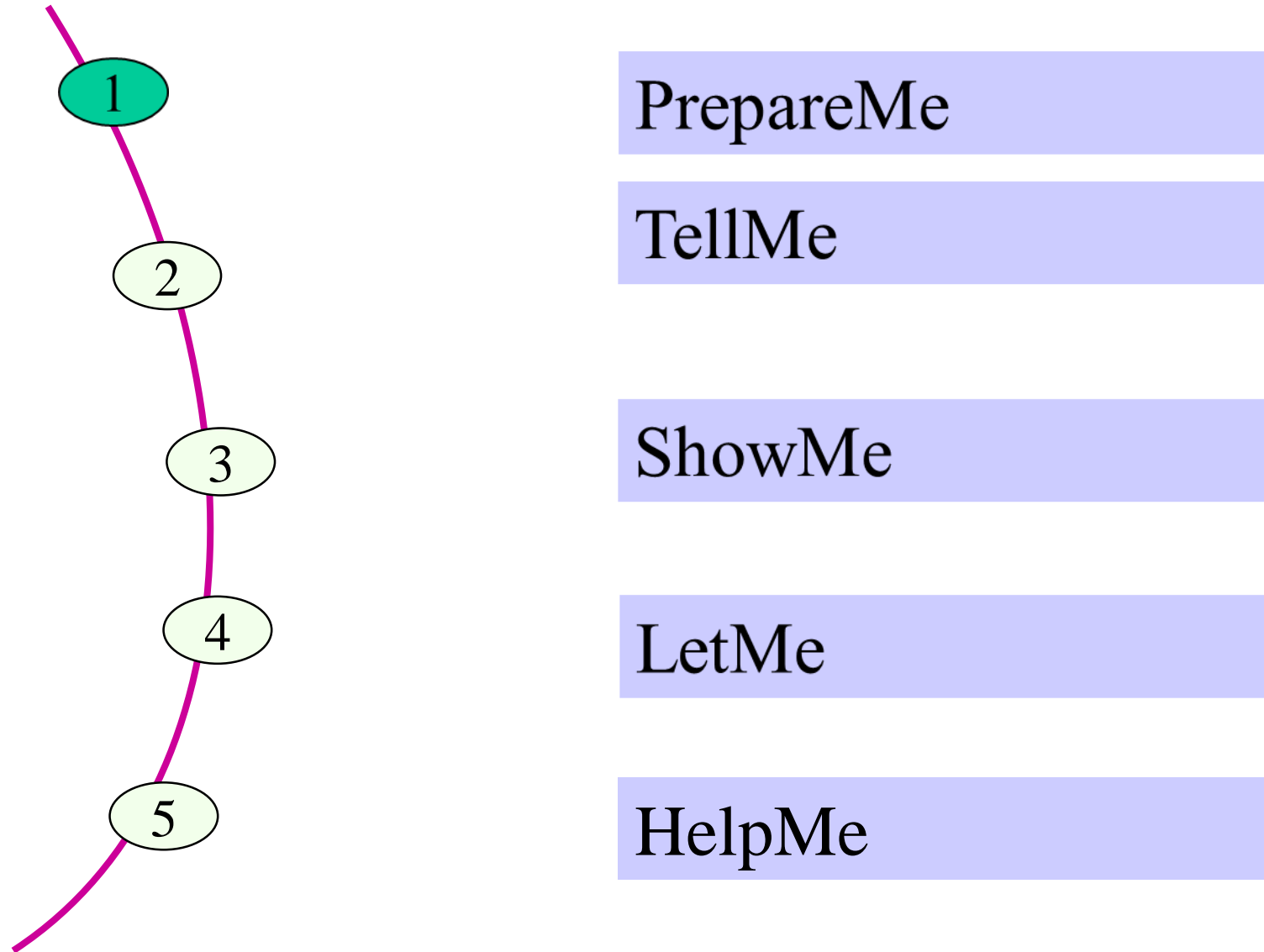


MM2009 - Batch Management – ver1.0



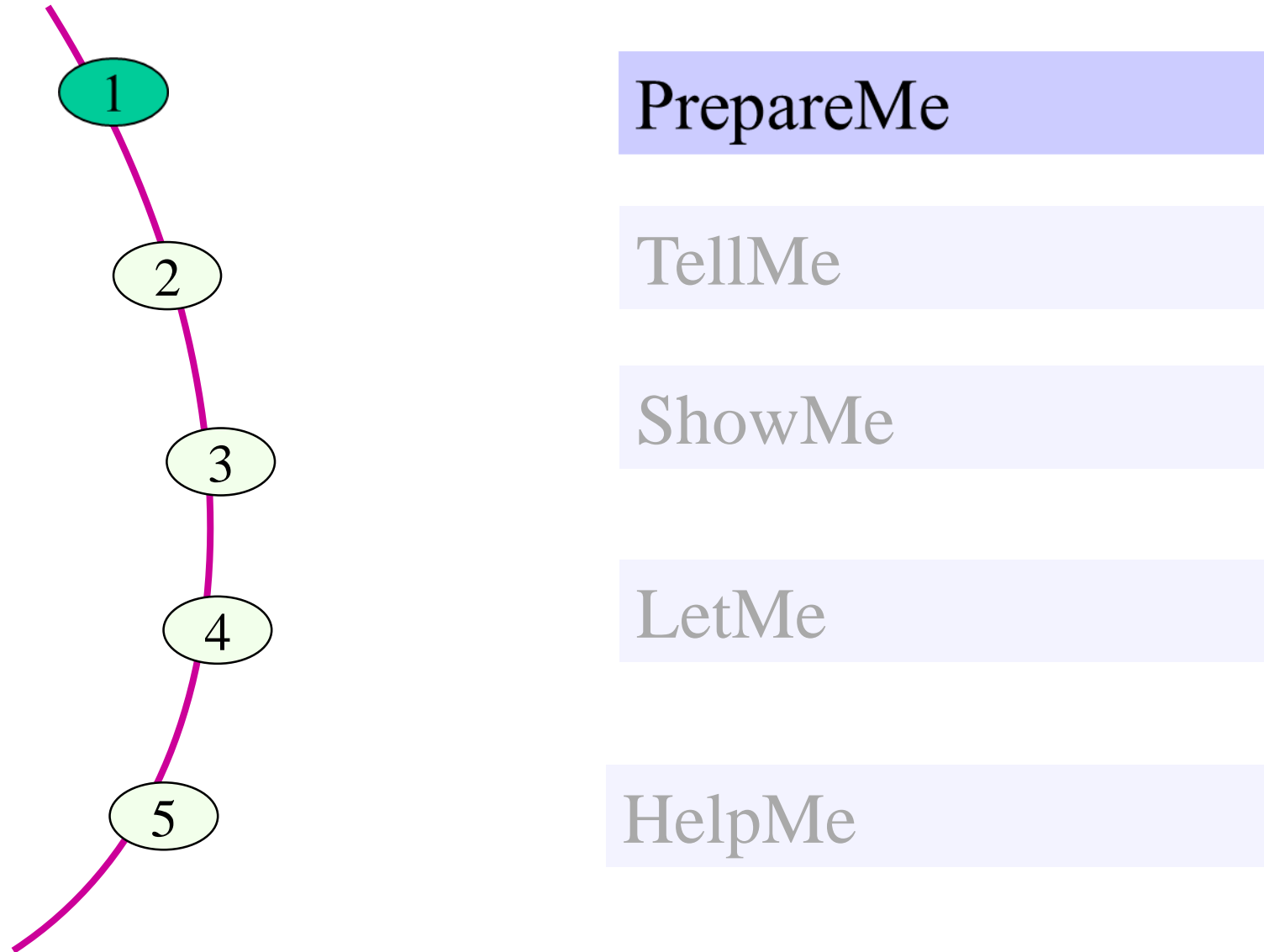


Batch Management





Batch Management



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)



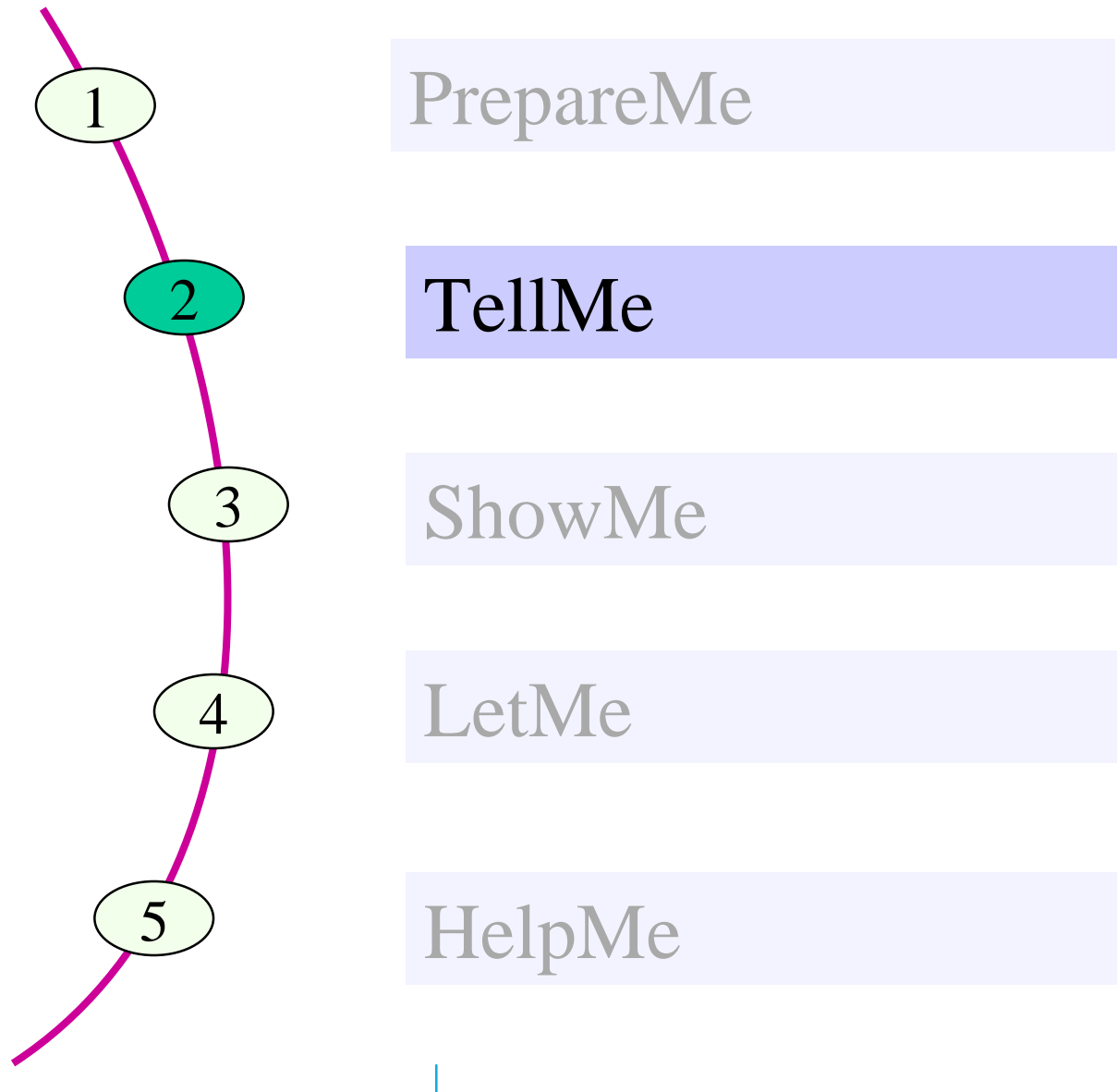
Challenges

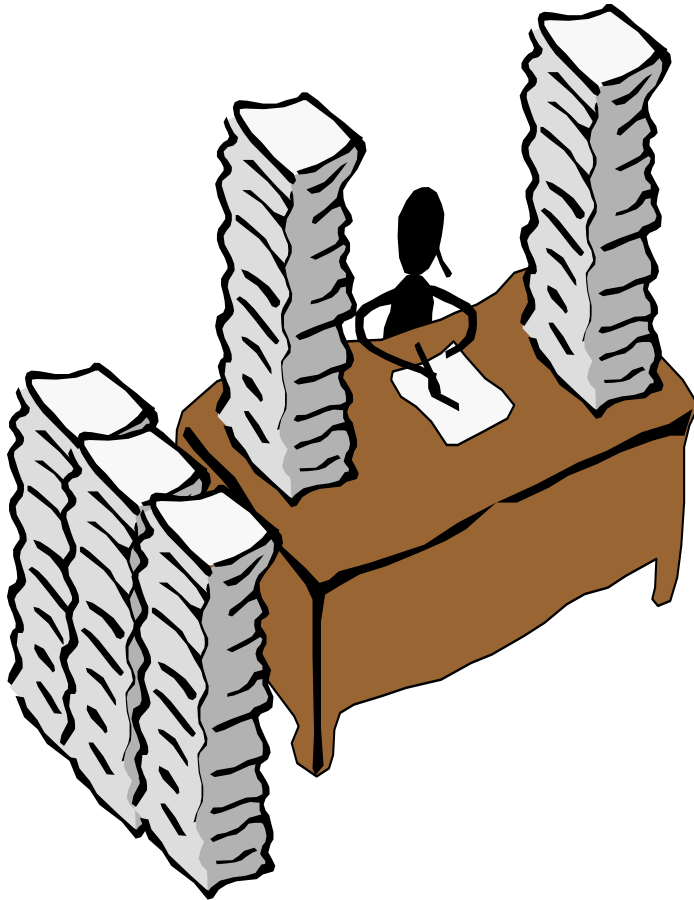


1. For which Process batch Management will be used ?
2. How to use Batch Management?
3. What is Batch search Strategy ?
4. How to determine Batch for Inventory & Warehouse Management.?



Batch Management





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

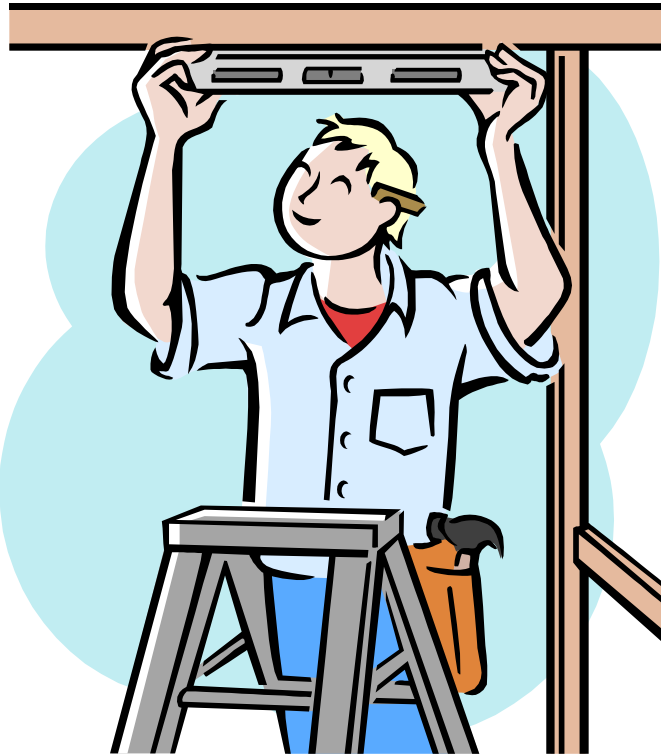


Batch Management – Process Flow

- **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



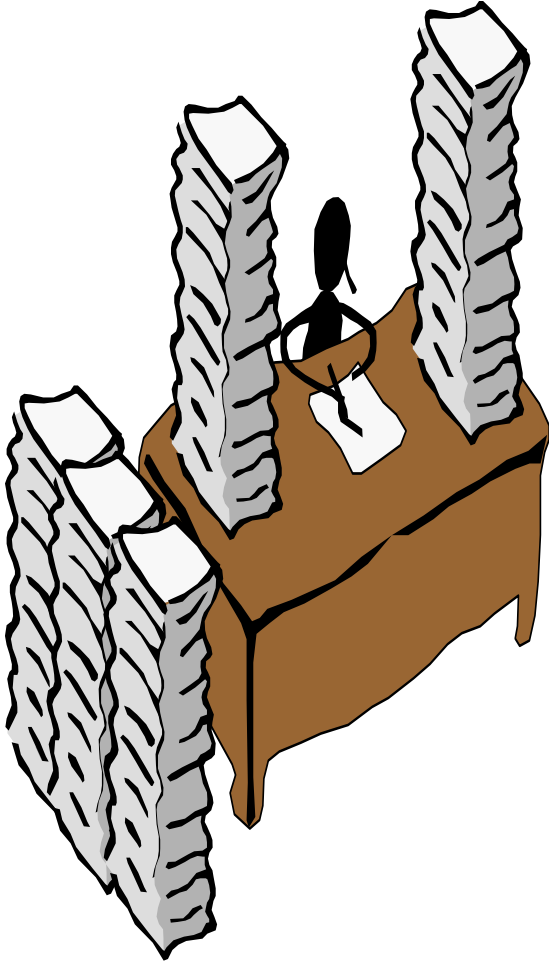
Material level:

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

Client level:

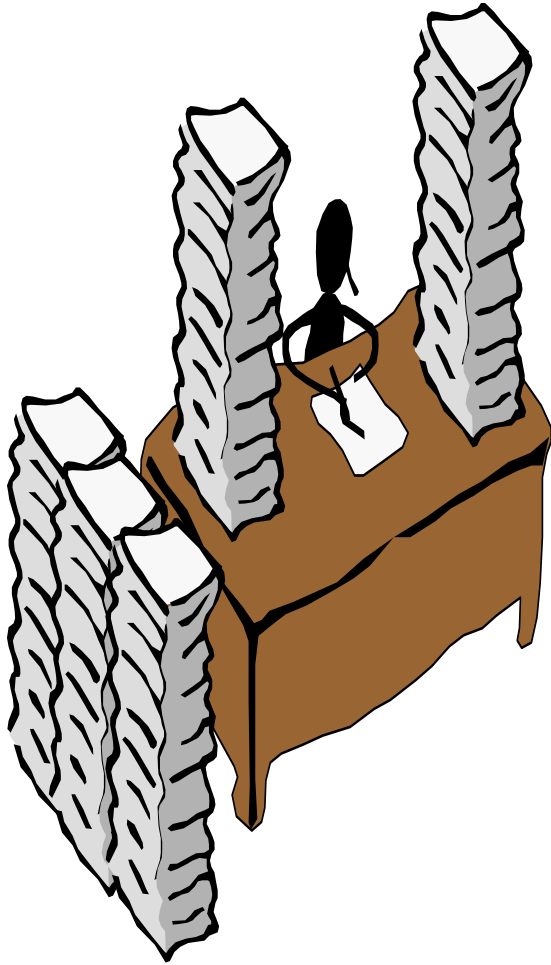
The batch number is unique in the whole client.

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

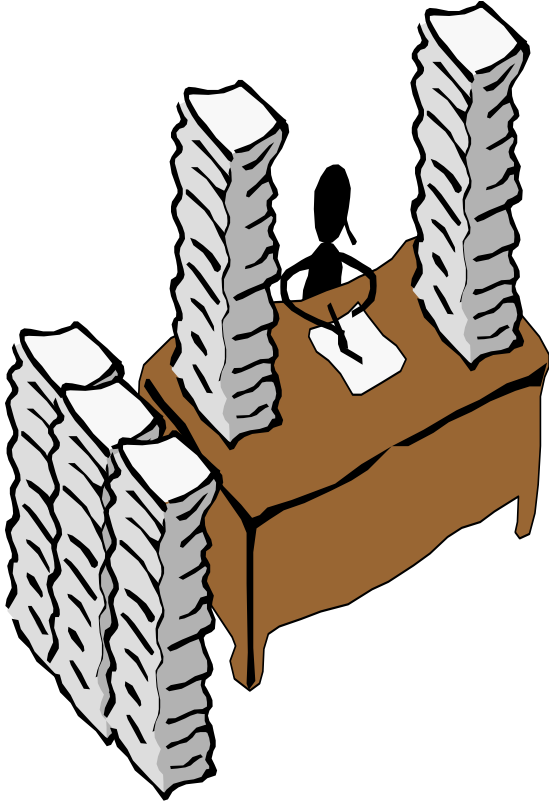


Batch Status Management

- **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 types
 - The selection class must contain at least one of the characteristics with which the batch was classified

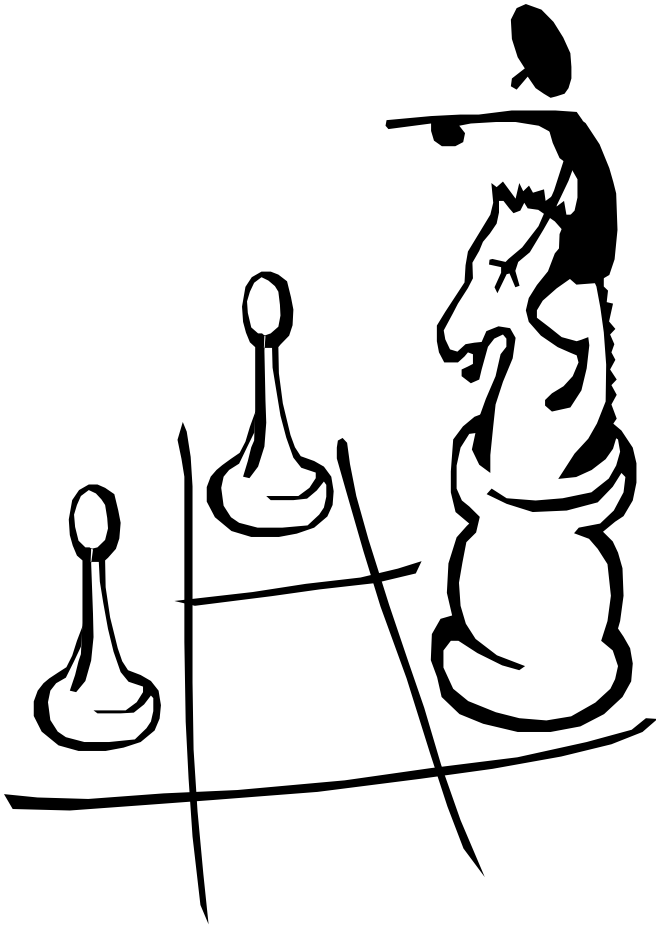


Batch Determination Process Flow

- 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

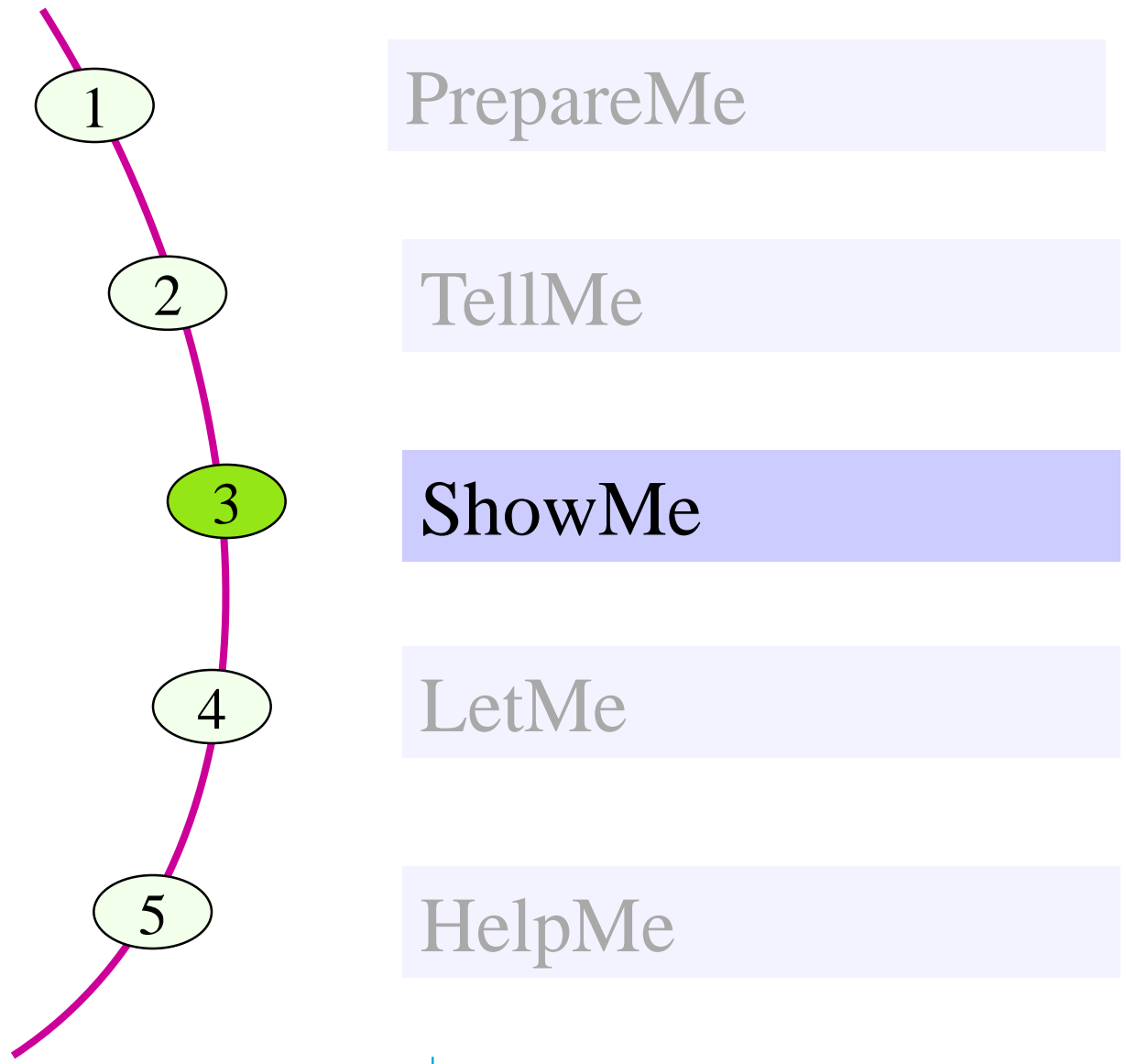


Batch-Specific Material Units of Measure

- 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. Free Goods Dis.		
Material freight grp			Autom. PO		
<input checked="" type="checkbox"/> 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
Std Value Deliv Date Var	0 days	<input type="checkbox"/> Unltd Overdelivery	<input type="checkbox"/> Acknowledgment Reqd

Other data / manufacturer data

GR 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

MRP 4 Plant data / stor. 1 Plant data / stor. 2 Accounting 1 Accounting...

Material: A01 FORGING HALF WHEEL
Plant: 1000 MB - FAL
Stor. Loc.: 1000 Mag reception

General data

Base Unit of Measure	ST	items	Unit of issue	
Storage Bin	BCD0001524		Picking area	
Temp. conditions			Storage conditions	
Container reqmts			Haz. material number	
CC phys. inv. ind.	A	<input type="checkbox"/> CC fixed	Number of GR slips	0
Label type		Lab form	<input type="checkbox"/> Appr. batch rec. req.	
<input checked="" type="checkbox"/> Batch management				

Shelf life data

Max. storage period	0	Time unit	
Min. Rem. Shelf Life	1	Total shelf life	0
Period Ind. for SLED	0	Rounding rule SLED	
Storage percentage	0		

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: D

Miscellaneous

Next Inspection:

Trading Data

Vendor: Ctry of origin:

Vendor Batch: Reg. of origin:

Last Goods Receipt: Expiry group:

Batch Search Strategy- Inventory Management



MBC1

Batch search strat. Edit Goto Environment System Help

Create Batch Search Strategy: Initial Screen

Strategy type ME02

Batch search strat. Edit Goto Environment System Help

Create Plant (ME02) : Fast Entry

Valid From 23.10.2007
Valid to 31.12.9999

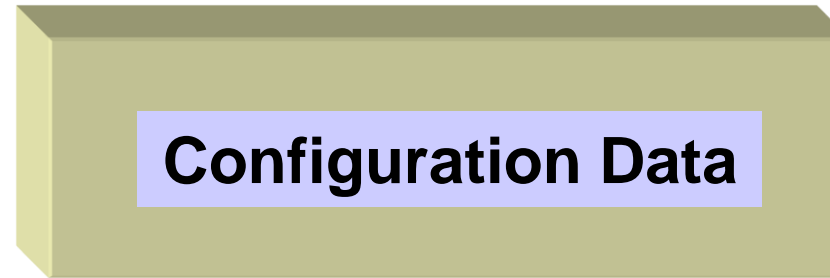
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[illegible]



Customizing Data for Batch Management



Batch Level



Maintenance Object Edit Goto System Help

Batch Definition

Process the objects in the specified sequence

- Batch level
- Batch status management
- Plants with batch status management
- Initial status of a new batch
- Batch level -> conversion
- Batch status management -> conversion

OMCT dewall36 OVR



Define Batch Creation for Goods Movements

Table View Edit Goto Selection Utilities(M) System Help

Change View "Definition of initial data creation for batch per mvmnt t"

Definition of initial data creation for batch per m

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

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

Position... Entry 1 of 262

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Define Initial Creation of Data for Batch Master Transactions

Table View Edit Goto Selection Utilities(M) System Help

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 ch
CH00	Automatic / manual without ch
CONT	Automatic / manual without ch
COUP	Automatic / manual without ch
DIEN	Automatic / manual without ch
EPA	Automatic / manual without ch
ERSA	Automatic / manual without ch
FERT	Automatic / manual without ch
FFFC	Automatic / manual without ch
FGTR	Automatic / manual without ch
FHMI	Automatic / manual without ch
FOOD	Automatic / manual without ch
FRIP	Automatic / manual without ch
GBRA	Automatic / manual without ch
HALB	Automatic / manual without ch
HAWA	Automatic / manual without ch
HERB	Automatic / manual without ch
HERS	Automatic / manual without ch
HIBE	Automatic / manual without ch

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

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Batch Strategy Types- Inventory Management



Table View Edit Goto Selection Utilities(M) System Help

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

New Entries

Application ME Inventory Management

SType	Description
CP J1	Strategy type for CP
ME01	MovType/Plnt/MatlNo.
ME02	Plant
P178	Condition type 178
Z001	MovType/Mat. TRAD. GDS
ZMM1	MovType/Plant/Mat. N

Position... Entry 1 of 6

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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/Plnt/MatlNo. Access seq. ME01 MovType/Plant/Materia

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

SPRO dewall36 INS



Table View		Edit	Goto	Selection	Utilities(M)	System	Help
<div> </div>							
<div> <input type="text"/> </div>							
<h2>Change View "Strategy Types (&1 &2)": Details</h2>							
<div> </div>							
Application	WM	Warehouse Management					
Condit. type	WM02	WarehouseNo./MovTyp	Access seq.	WM02	Warehouse No./Movemen		
<div>Selection</div>							
Class Type	023	Batch					
Class	SHELF_LIFE_SEL						Maint.
<div>Sorting</div>							
Sort sequence	<input type="text"/>						Maint.
<div>SPRO</div> <div>dewall36</div> <div>INS</div>							

Batch Strategy Search Procedure- Inventory Management



Change View "Procedures": Overview

Dialog Structure

- Procedures
 - Control data

Usage: H
Application: ME

Proce	Descript.
CPJ1	Search Procedure for CP Japan
ME0001	Standard Search Procedure
P00001	Standard Search Procedure 178
P178	pi78
Z00001	Batch Search for IR332 Class

Position... Entry 1 of 5

Change View "Control data": Overview

Dialog Structure

- Procedures
 - Control data

Procedure: ME0001 Standard Search Procedure

Reference Step Overview

Step	Co	CType	Description
10	0	ME01	Type/Pint/MatNo.

Position... Entry 1 of 1

One entry chosen



Batch Strategy Search Procedure- Warehouse Management

Table View Edit Goto Selection Utilities(M) System Help

Change View "Procedures": Overview

New Entries

Dialog Structure

- Procedures
- Control data

Usage H
Application WM

Proce	Descript.
WM0001	WM Standard Search Procedure
WM0002	SearchProc.WarehouseNo/MovType
ZWM001	WM Standard Search Procedure
ZWM002	Search proc. LAGNR/BWADEBITOR

Position... Entry 1 of 4

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Table View Edit Goto Selection Utilities(M) System Help

Change View "Control data": Overview

New Entries BC Set Change Field Values

Dialog Structure

- Procedures
- Control data

Procedure WM0001 WM Standard Search Procedure

Step	Co	CTyp	Description
10	0	WM01	Warehouse Number

Position... Entry 1 of 1

One entry chosen

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Batch Where-Used List



Table View Edit Goto Selection Utilities(M) System Help

Change View "Batch Where-Used List": Overview

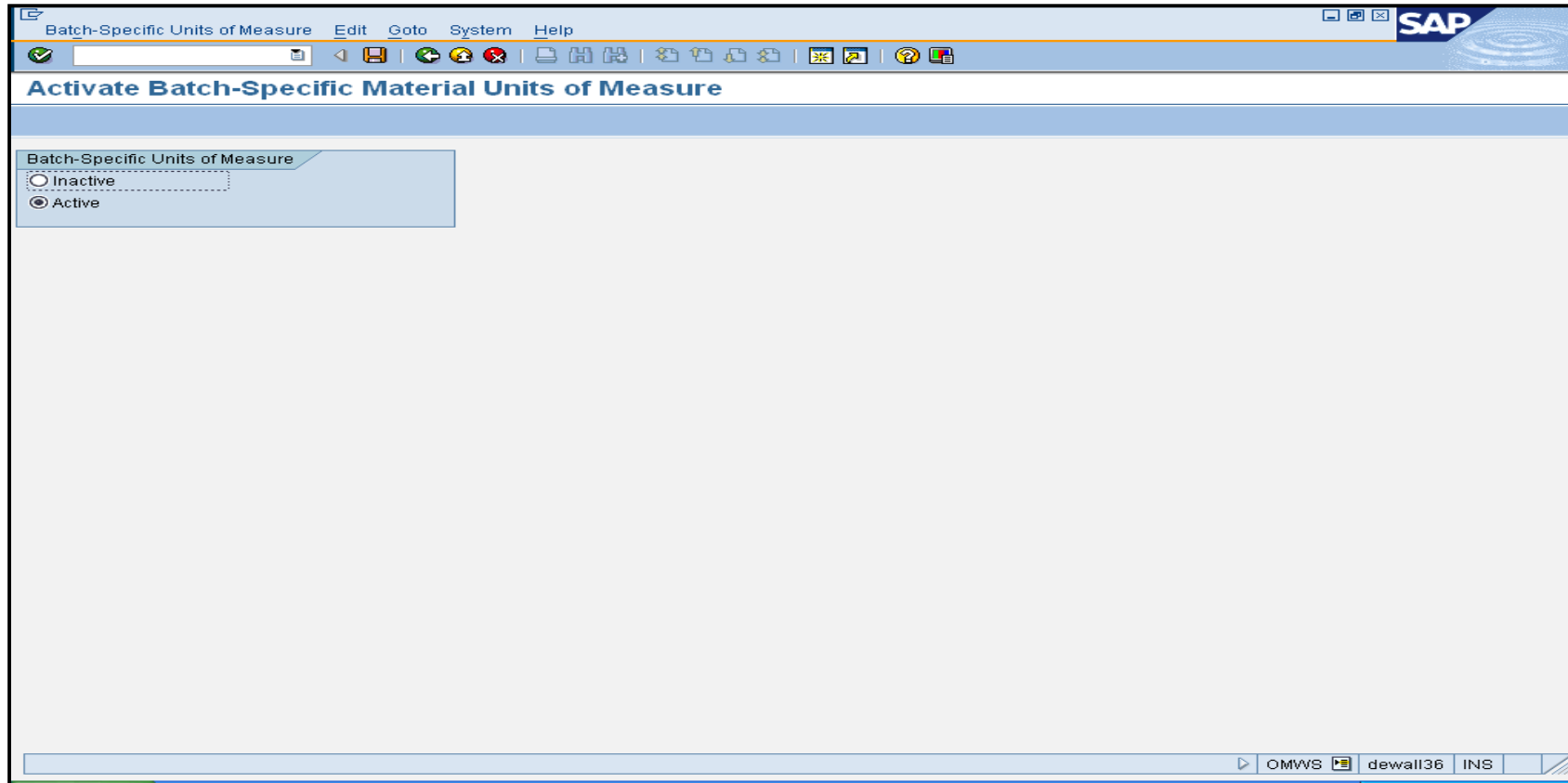
Pint	Name 1	BaWU synchron.postng	BaWU deactivated
0001	Werk 0001	<input type="checkbox"/>	<input type="checkbox"/>
0003	PSR_Test Plant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0005	Hamburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0006	New York	<input checked="" 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 Auotmotive	<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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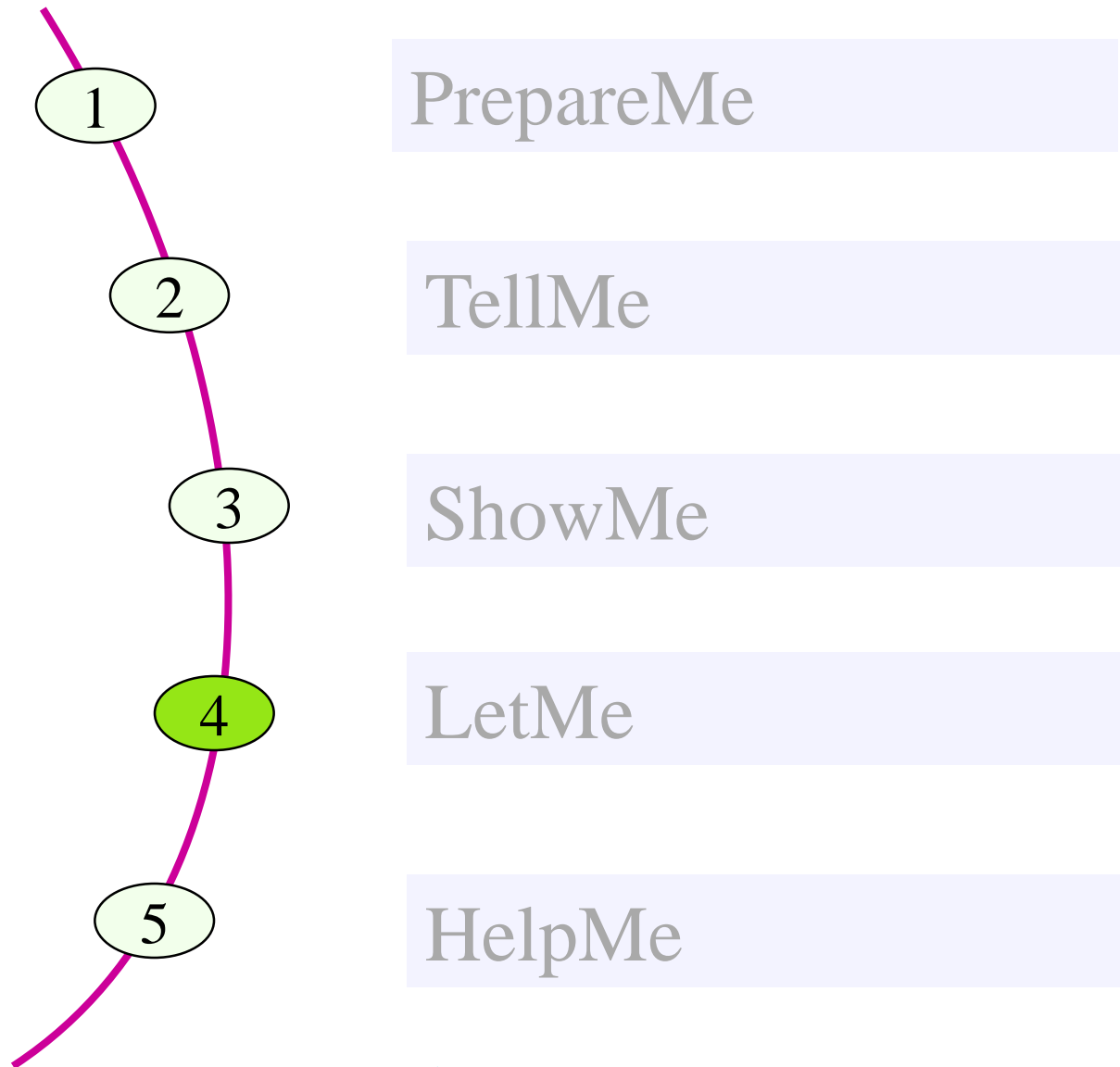


Activate Batch-Specific Material Unit of Measure





Batch Management





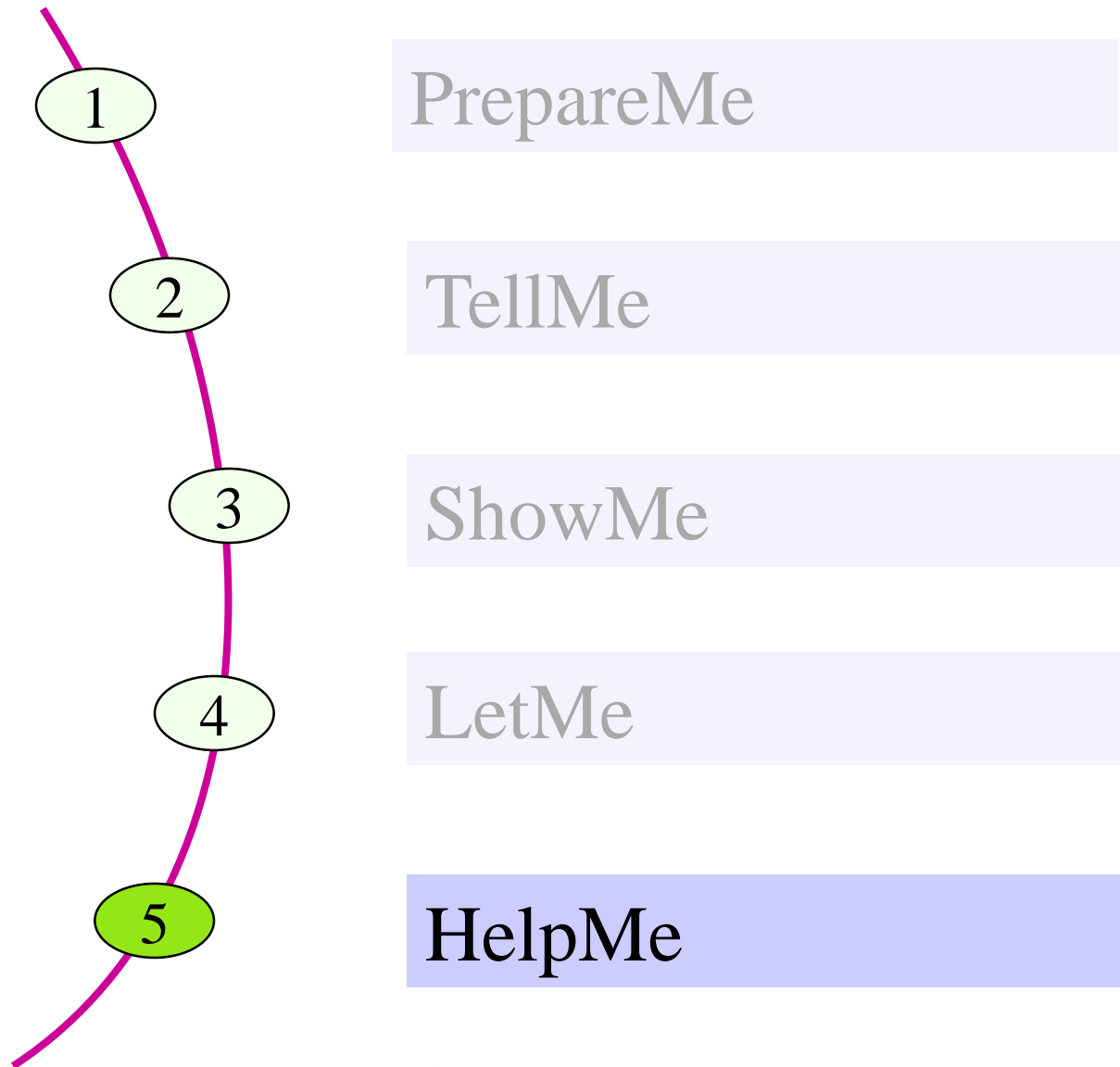
Let Me- Batch Management

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 Mgt Transaction

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





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