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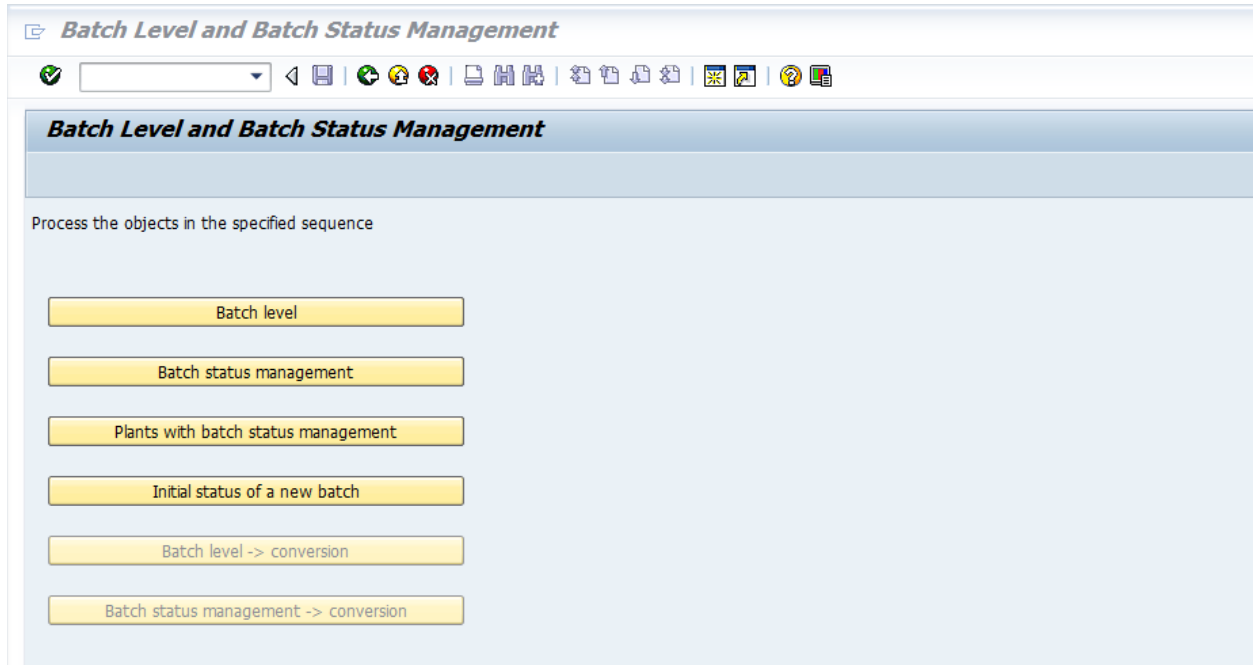
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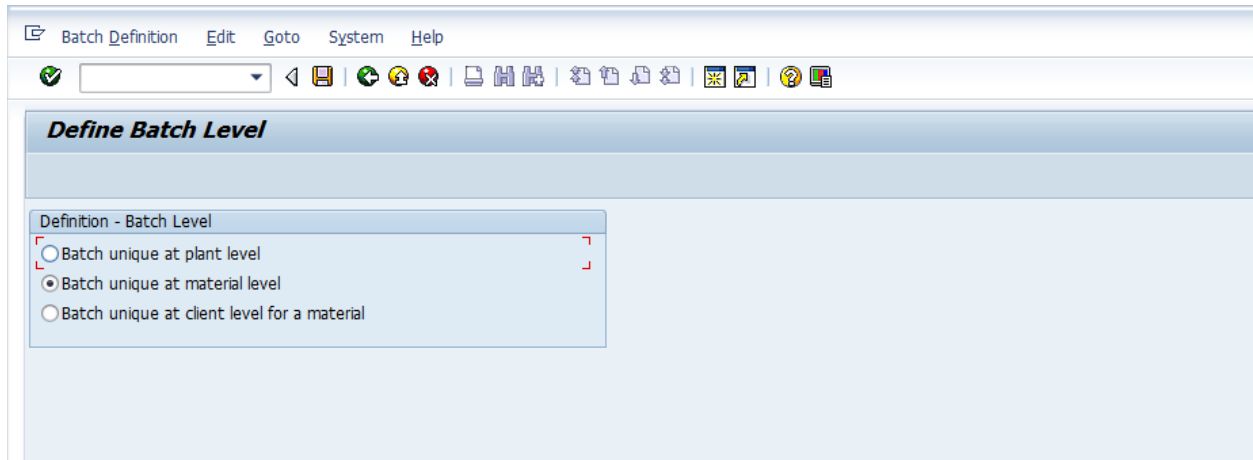
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Batch Management in EWM:

If you want to use batches in EWM with connection to ERP, you have to set up unique batch names at the material level

Spro-Img-Logistics – General-Batch Management-Specify Batch Level and Activate Status Management





General customizing settings in EWM:

Define number ranges for batches in EWM. This number range is used when EWM creates batches, for example, automatically at the creation of the inbound delivery.

Spro-Img-SCM Extended Warehouse Management-Extended Warehouse Management-Cross-Process Settings-Batch Management-Define Number Range for Batch

N..	From No.	To Number	NR Status	Ext
01	0000500001	0000599999	500030	<input type="checkbox"/>
02	0000600000	0000699999	0	<input type="checkbox"/>

Update control for batches:

Spro-Img-SCM Extended Warehouse Management-Extended Warehouse Management-Cross-Process Settings-Batch Management- Set Update Control (Centralized, Decentralized)

Business System	Bat. Updt
ERPCLNT800	Synchronous, Cancel Update If Errors Occur
EWMCLNT	Synchron., Asynchr. Update With Local Update If Errors Occur
	Synchron., Asynchr. Update Without Loc. Update If Errors Occur

When EWM creates or changes batches, it attempts to call the ERP system synchronously to inform it about the change.

Settings:

Spro-Img-SCM Extended Warehouse Management-Extended Warehouse Management-Interfaces- ERP Integration- General Settings- Set Control Parameters for ERP Version Control

Table View Edit Goto Selection Utilities System Help

Change View "Recipient-Dependent Control of Processes": Overview

New Entries

Business System	SAP Release	Support P...	UoM Split	Stk Co
ERPCLNT800	606		Communicate UoM Splits	Synchi
ERP_800	606		Communicate UoM Splits	Synchi
EWMLCLNT400	606		Communicate UoM Splits	Synchi
T90CLNT090	606		Communicate UoM Splits	Synchi

Table View Edit Goto Selection Utilities System Help

Change View "Recipient-Dependent Control of Processes": Details

New Entries

Recipient-Dependent Control of Processes

Inbound Delivery

General Settings

Duplicate Check: Do Not Suppress Check

Perform Inb. Deliv. Split: Carry Out Inbound Delivery Split and ...

Report In Yard to ERP: Report In Yard to ERP

Confirmation Type of SNs: Only Communicate Goods Movement...

Goods movement

Goods Receipt Mode: Immediately Send GR Postings and P...

Posting Change wrt Inbound Delivery: Post. Change in Relation to Inb. Deliv...

Send Posting Change message after the GR message: PCGM message before FUGR message

Quality Inspection

Possible Usage Decisions: All Inspection Decisions Can Be Made

Quality Confirmation for Returns: Quality Confirmations for Returns

Batch Control

Batch Update: Separate Update of Batch and Classifi...

Changeability of Externally Specified Batch in EWM: Joint Update of Batch and Classification

Communication of Batch Split of Inbound Delivery Item: Separate Update of Batch and Classification

Report Batch Changes Immediately to ERP: Send Batch Change Immediately to ...

Create / Delete Inbound Deliveries

SAP TMS (3) 400 SAPTM OVR

Process:

ECC:

To enable batch management for a product, you must set the corresponding checkbox in the material master in ERP. Then, you assign a batch class of the class type 023. While assigning the batch class, you may also assign the object characteristics **LOBM_HERKL (COO)**, **LOBM_VFDAT**

(SLED, minimum shelf life), and **LOBM_ZUSTD** (batch status) to the batch class. These three characteristics (COO, expiration date, and batch status) represent stock attributes in EWM.

Create Characteristics (T Code: CT04)

The screenshot shows the SAP 'Display Characteristic' (CT04) interface. At the top, there is a menu bar with 'Characteristic', 'Edit', 'Goto', 'Extras', 'Environment', 'System', and 'Help'. Below the menu is a toolbar with various icons. The main area is titled 'Display Characteristic' and contains the following fields:

- Characteristic: ZCOLOR
- Change Number: (empty field)
- Valid From: 06.08.2015
- Validity: (button)

Below these fields are five tabs: 'Basic data', 'Descriptions', 'Values', 'Addnl data', and 'Restrictions'. The 'Basic data' tab is active and shows the following fields:

- Description: color
- Chars Group: (dropdown menu)
- Status: Released
- Auth.Group: (empty field)

Below the 'Basic data' tab are two sections: 'Format' and 'Value Assignment'.

Format

- Data Type: Character Format
- Number of Chars: 10
- Case Sensitive: (checkbox, unchecked)
- Template: (empty field)

Value Assignment

- Single Value: (radio button, unchecked)
- Multiple Values: (radio button, checked)
- Restrictable: (checkbox, unchecked)
- Entry Required: (checkbox, unchecked)

Create Class

T Code: CL02

Class Edit Goto Extras Environment System Help

Change Language

Class MORE-CLASS

Class type 023

Change Number

Valid from 06.08.2015 Validity

Basic data

Class Edit Goto Extras Environment System Help

Create Class:

Change Language

Class MORE-CLASS

Class type 023 Batch

Change Number

Valid from 06.08.2015 Validity

Basic data Keywords Char. Texts

Basic data

Description MORE-CLASS

Status Released

Class group

Organizational area Local class

Valid From 06.08.2015 Valid to 31.12.9999

Same classification

Do not check

Warning message

Check with error

Authorizations

Class maintenance

Classification

Find object

Here, it is required maintain the Org area:

Class Edit Goto Extras Environment System Help

Create Class:

Change Language

Class: MORE-CLASS

Class type: 023 Batch

Change Number: []

Valid from: 06.08.2015

Basic data Keywords Char. Texts

Basic data

Description: MORE-CLASS

Status: Released

Class group: []

Organizational area: []

Valid From: 06.08.2015

Same classification

Do not check

Warning message

Check with error

Create Class: Set Org. Areas

Org.area	Org.area
<input checked="" type="checkbox"/> A	SPE_COO
<input type="checkbox"/> H	APO Self Life
<input type="checkbox"/> L	APO
<input type="checkbox"/> O	EWM Batch Org Area
<input type="checkbox"/> S	Substance / steel

Class Edit Goto Extras Environment System Help

Create Class:

Change Language

Class: MORE-CLASS

Class type: 023 Batch

Change Number: []

Valid from: 06.08.2015

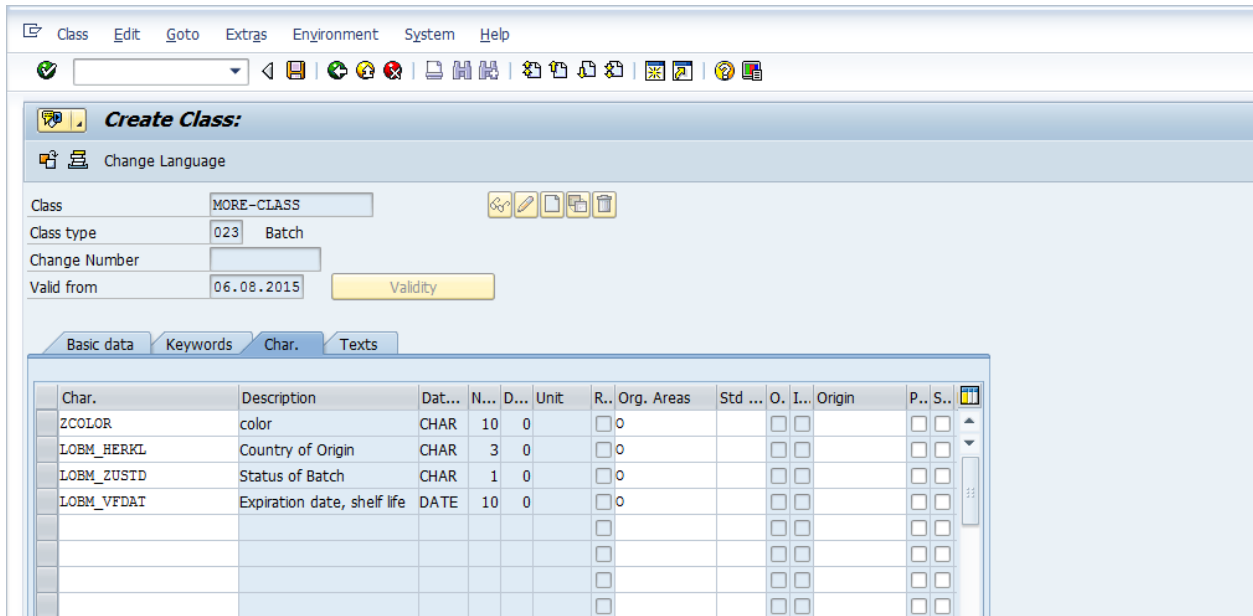
Basic data Keywords Char. Texts

Char. Description Dat... N... D... Unit R.. Org. Areas Std ... O.

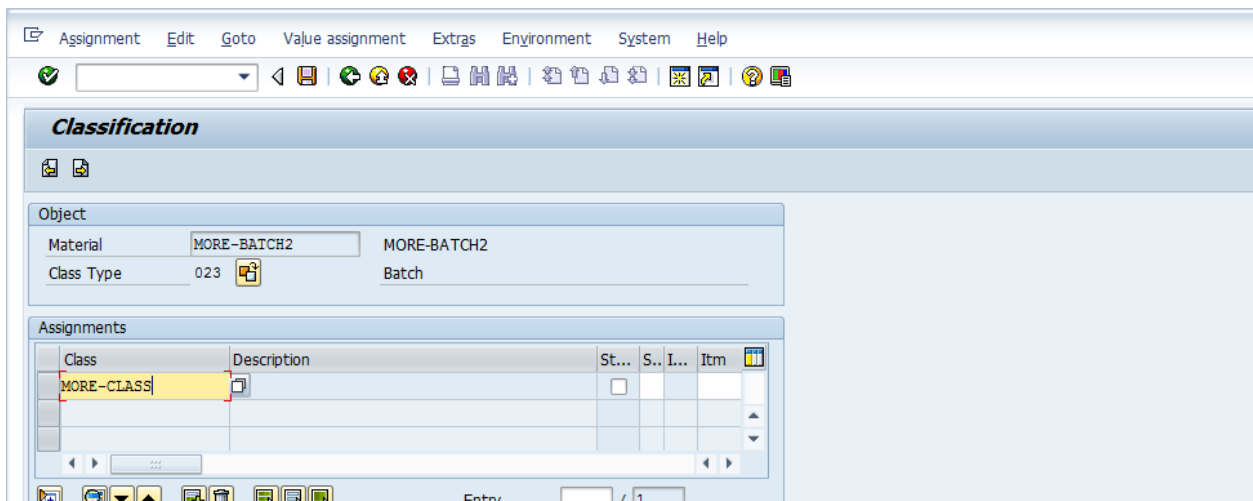
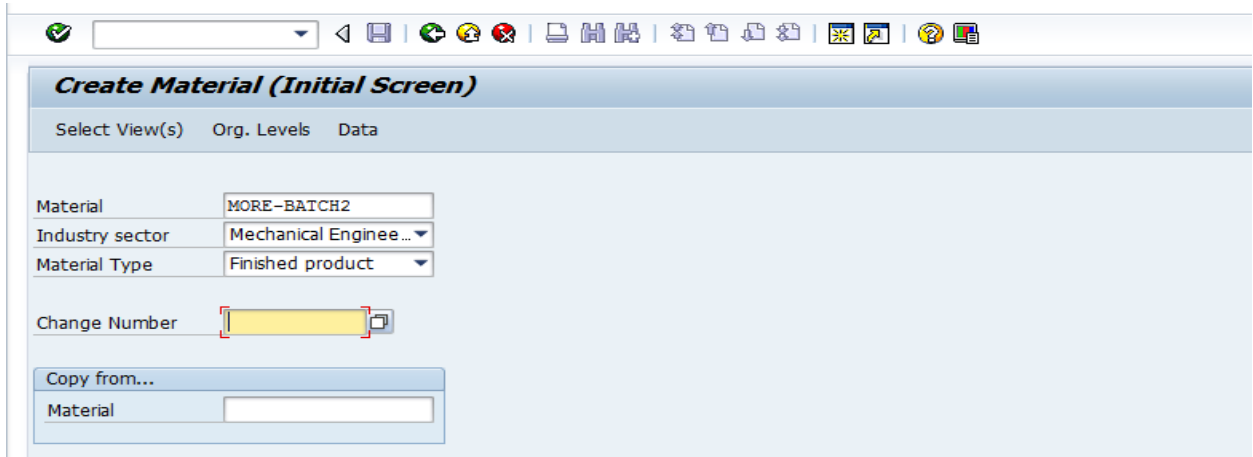
ZCOLOR	color	CHAR	10	0		<input type="checkbox"/>			
LOBM_HERKL	Country of Origin	CHAR	3	0		<input type="checkbox"/>			
LOBM_ZUSID	Status of Batch	CHAR	1	0		<input type="checkbox"/>			
LOBM_VFDAT	Expiration date, shelf life	DATE	10	0		<input type="checkbox"/>			
						<input type="checkbox"/>			
						<input type="checkbox"/>			
						<input type="checkbox"/>			
						<input type="checkbox"/>			
						<input type="checkbox"/>			
						<input type="checkbox"/>			

Create Class: Set Org. Areas

Org.area	Org.area
<input checked="" type="checkbox"/> O	EWM Batch Org Area



Create Material:



Here we do not maintain characteristics , and we maintain the batches through T Code :
MSC1N

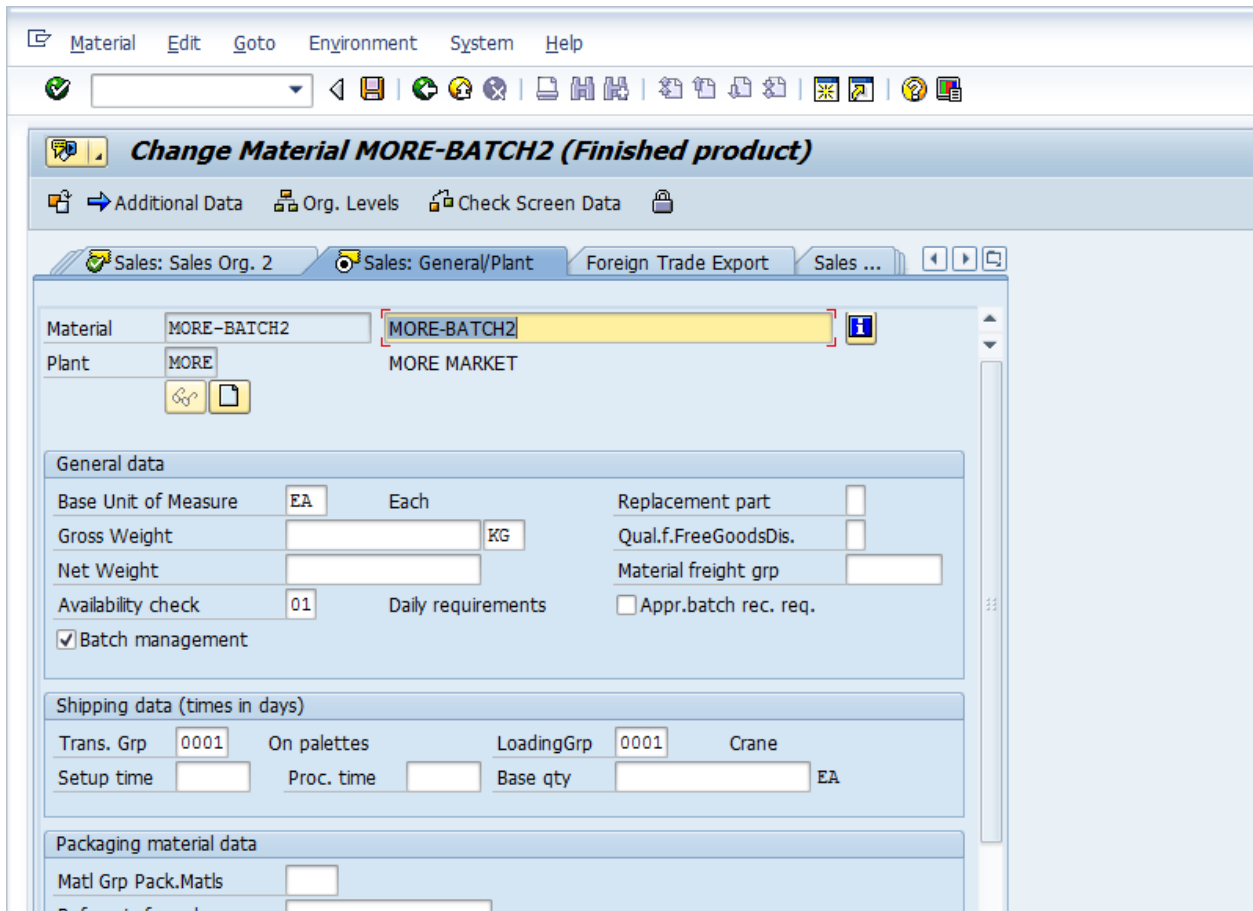
The screenshot displays the SAP Classification T-code MSC1N interface. At the top, there is a menu bar with options: Assignment, Edit, Goto, Value assignment, Extras, Environment, System, and Help. Below the menu is a toolbar with various icons for navigation and actions.

The main area is titled "Classification" and contains several sections:

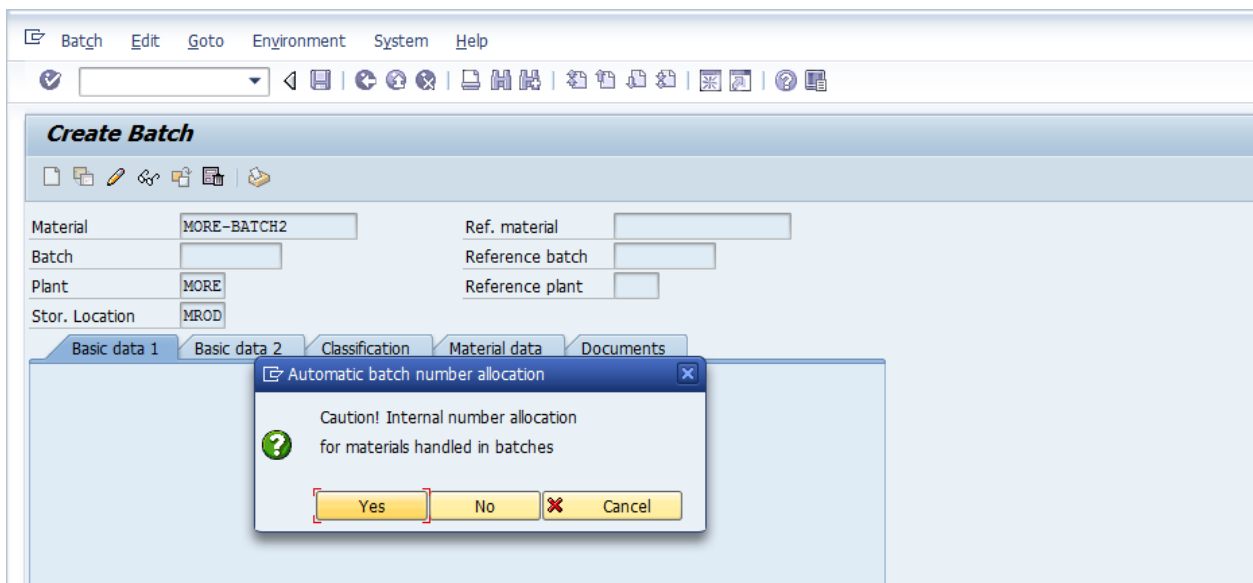
- Object:** Material: MORE-BATCH2, MORE-BATCH2; Class Type: 023, Batch.
- Assignments:** A table with columns: Class, Description, St..., S..., I..., Itm. The first row shows MORE-CLASS, MORE-CLASS, a checkbox, 1, a checked box, and 10.
- Values for Class MORE-CLASS - Object MORE-BATCH2:** A sub-section with a "General" tab. It contains a table with columns: Characteristic Description, Value. The first row is highlighted in yellow and shows "color" in the description column and an empty value field.

Class	Description	St...	S...	I...	Itm
MORE-CLASS	MORE-CLASS	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	10

Characteristic Description	Value
color	
Country of Origin	
Status of Batch	
Expiration date, shelf life	



Create Batch: T Code: MSC1N



Batch Edit Goto Environment System Help

Create Batch

Material MORE-BATCH2
 Batch
 Plant MORE MARKET
 Stor. Location RCE on DOCK

Basic data 1 | Basic data 2 | Classification | Material data | Documents

Expiration Date

Date of Manufacture

Shelf Life Exp. Date

Available From

Period Indicator

Batch Status

Batch Status Unrestricted
 Batch restr.

Last Status Chge

Miscellaneous

Next Inspection

Trading Data

Vendor

Vendor Batch

Last Goods Receipt

Ctry of origin

Reg. of origin

Exp/imp group

Batch Edit Goto Environment System Help

Create Batch

Material MORE-BATCH2
 Batch
 Plant MORE MARKET
 Stor. Location RCE on DOCK

Basic data 1 | Basic data 2 | Classification | Material data | Documents

Classification of Batch

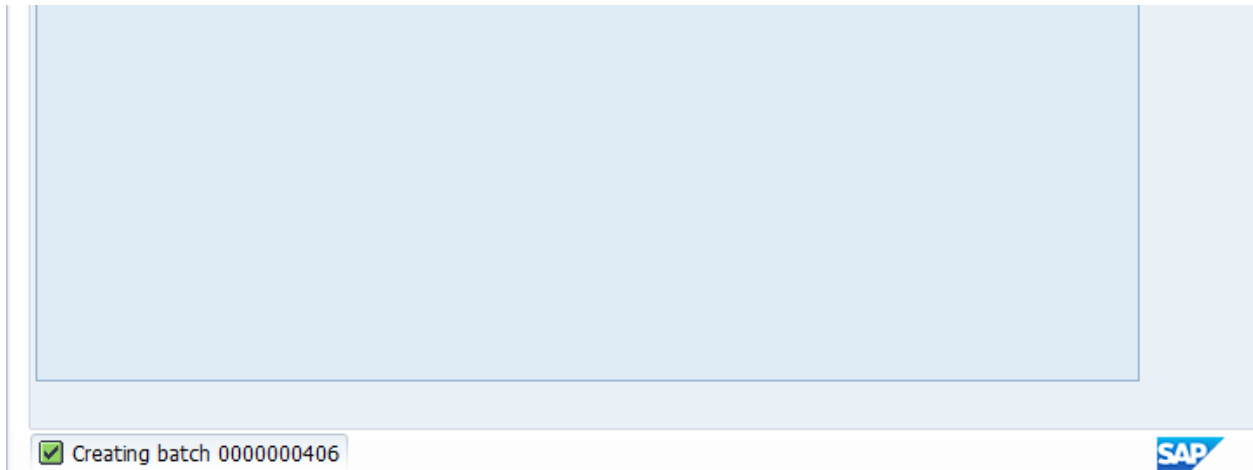
Class

Class Type

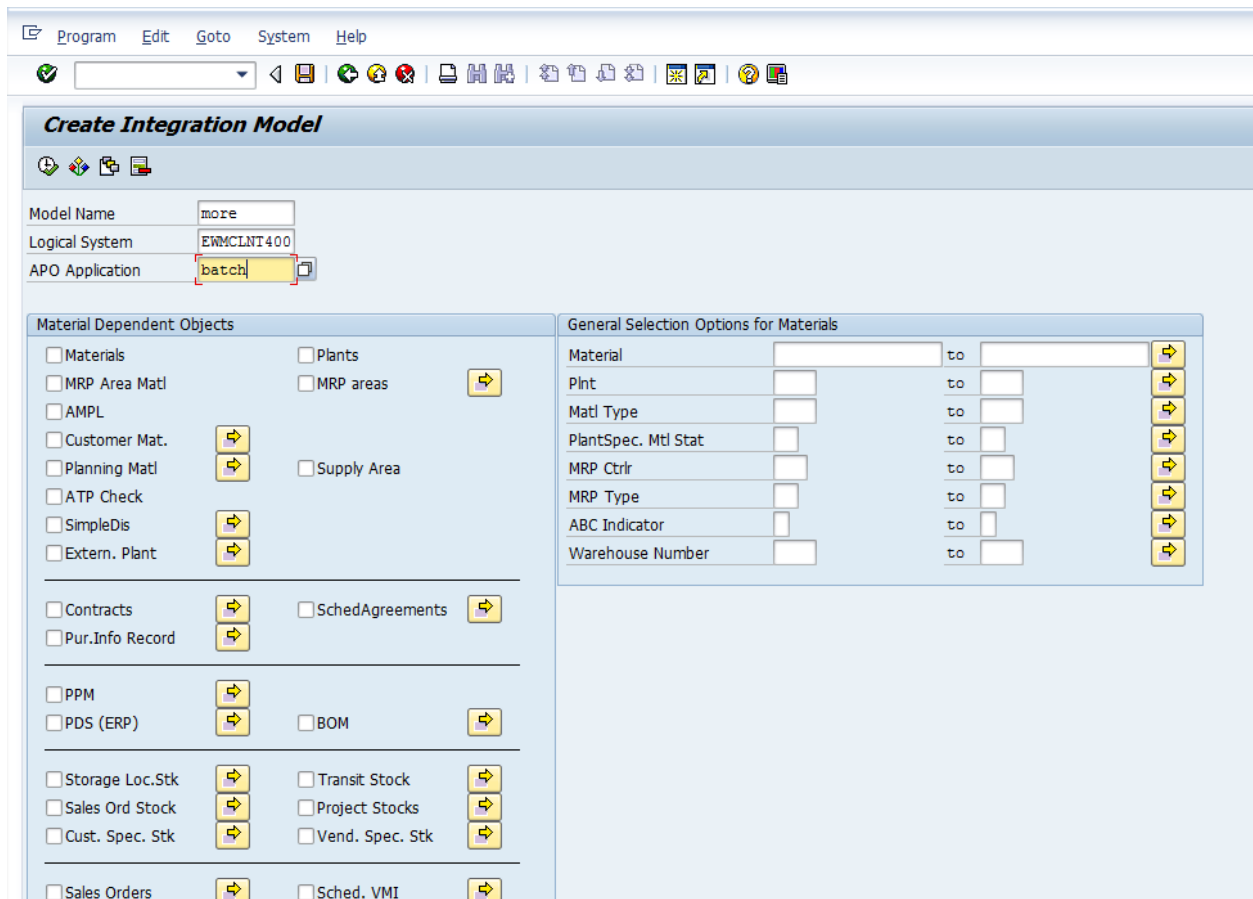
Values for Class MORE-CLASS - Object MORE-BATCH2 000000406

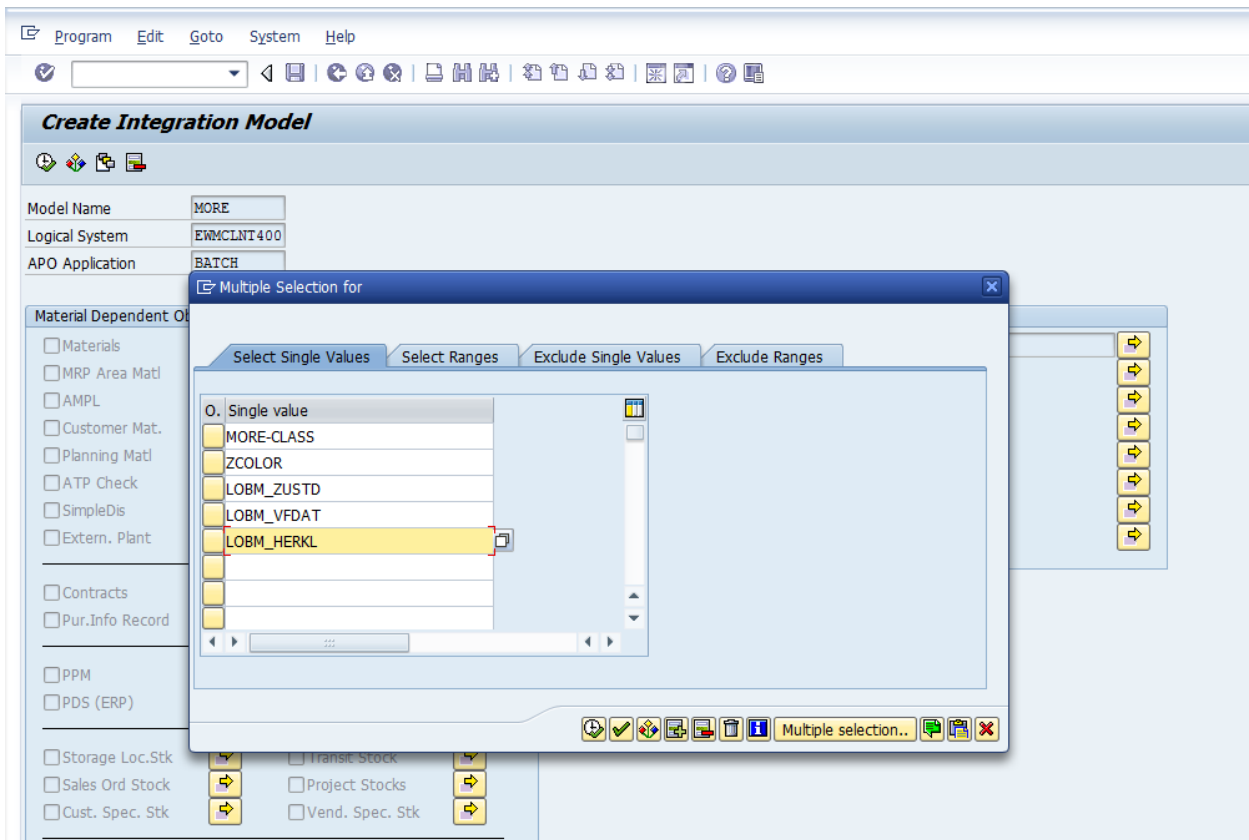
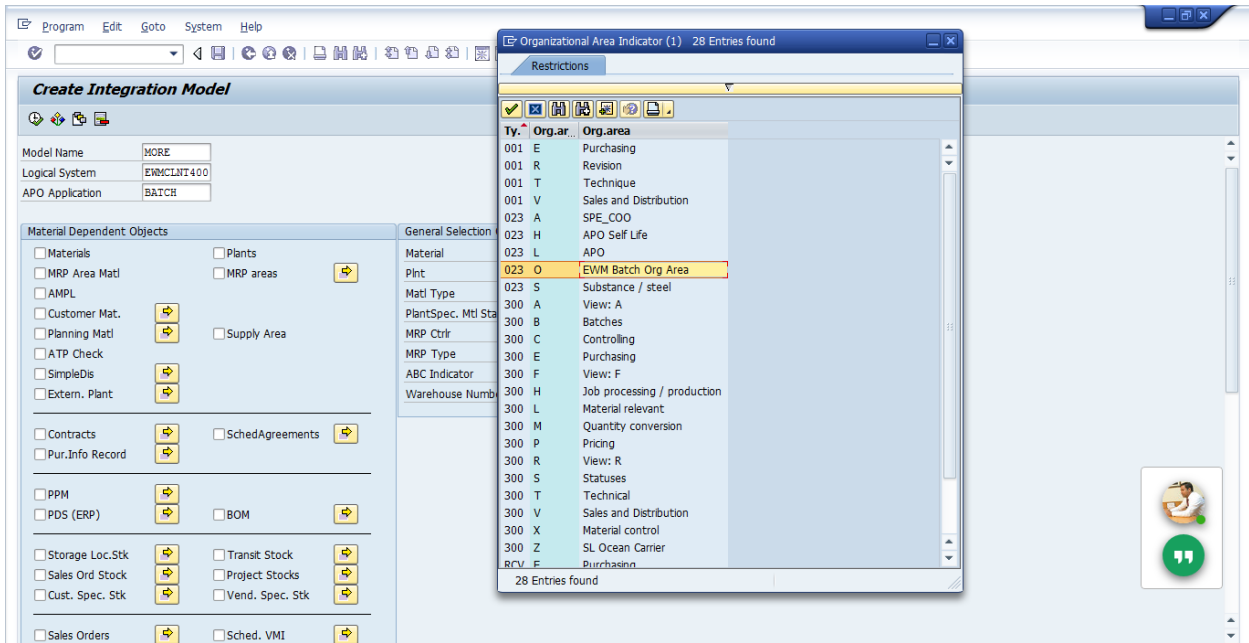
General

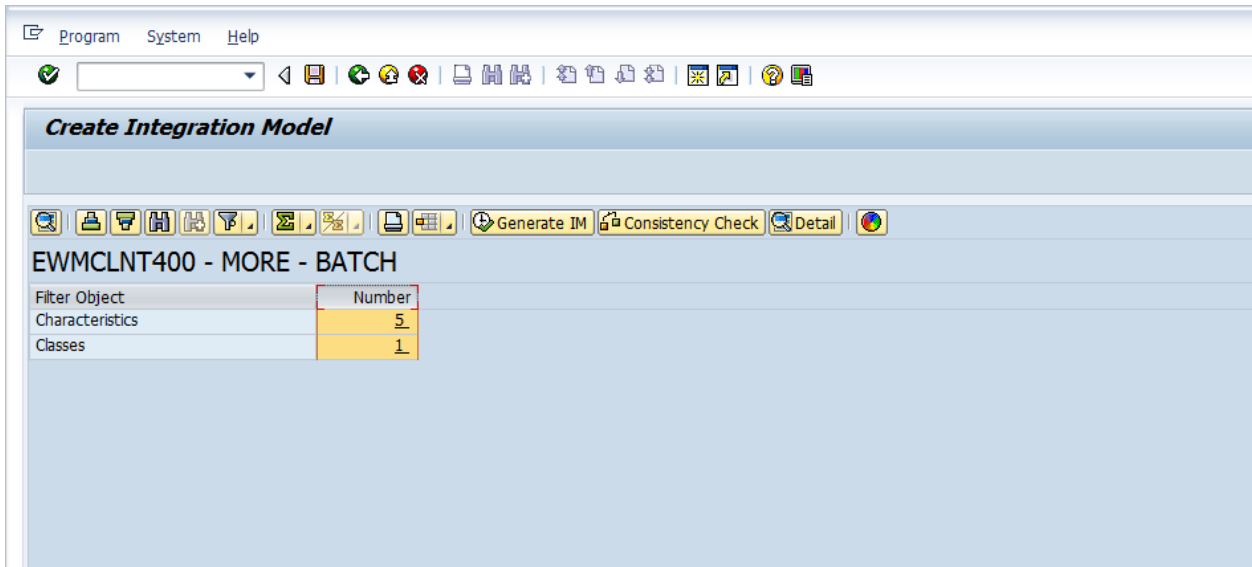
Characteristic Description	Value
color	<input type="text" value="BLUE"/>
Country of Origin	DE
Status of Batch	Released
Expiration date, shelf life	31.01.2016



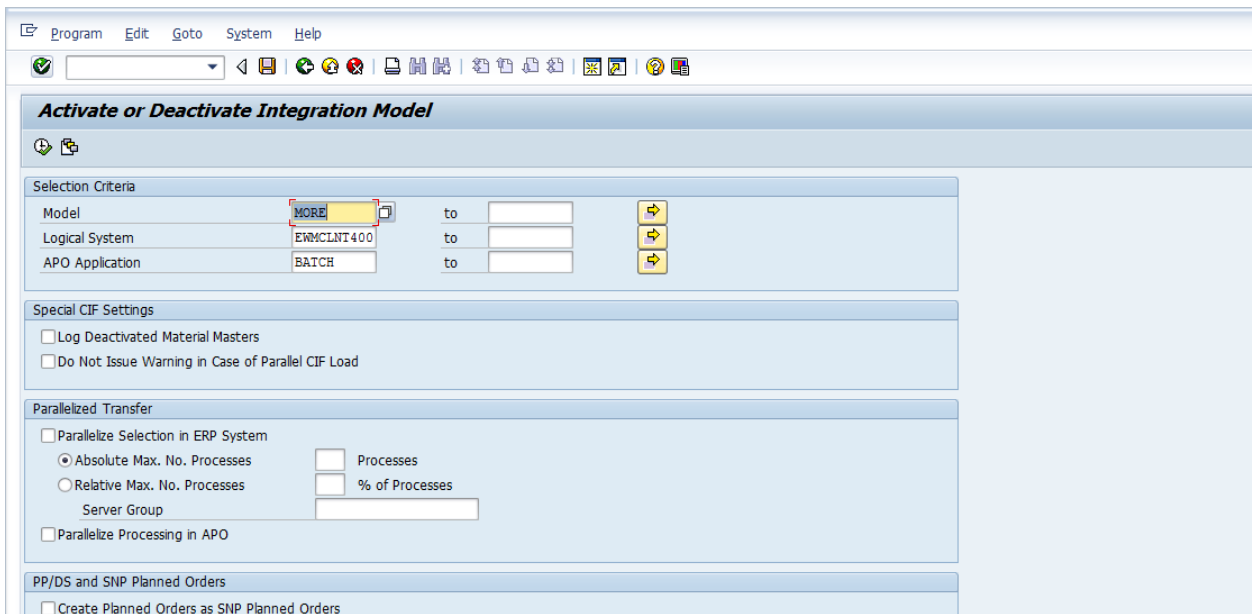
Now distribute the class & characteristics in to EWM through T Code : CFM1







Activate Integration Model (T Code : CFM2)



Program System Help

Activate or Deactivate Integration Model

Integration Models
 EWMCLNT400
 MORE
 BATCH

EWMCLNT400 - MORE - BATCH

Created on	Changed at	Created by	Prev.Stat.	New Status
06.08.2015	15:51:23	SAPEWM11	✗	✓
05.08.2015	21:52:55	SAPEWM11	✓	✗
05.08.2015	21:51:22	SAPEWM11	✗	✗

Log Edit Goto System Help

Display logs

Date/Time/User	Nu...	Exter...	Object txt	Sub-object text	Tran	Program	Mode	Log number
06.08.2015 15:52:45 SAPEWM11	21	CIFLOA...	Core Interface ...	Initial Data Tra...	CFM2	SAPLCIFG	Dialog pro...	000000000000045053
	20							
	1							

T... Message Text

Transfer object type Characteristics to system EWMCLNT400 (see long text)

Time: 06.08.2015 15:52:49

Function: CIF_CHR_SEND

Parameter: IS_CTRLPARAMS

LogDstSys ,Benutzer ,TCode ,TRFCCHN ,

EWMCLNT400,SAPEWM11 ,CFM2 ,CFLDERPCLNT800_3154 ,

Table: IT_CABN Entries: 1

No.,IntMerkm ,Merkmal ,

1 ,0000005330,ZCOLOR ,

Table: IT_CAWN Entries: 0

No.,IntMerkm ,MerkWert ,

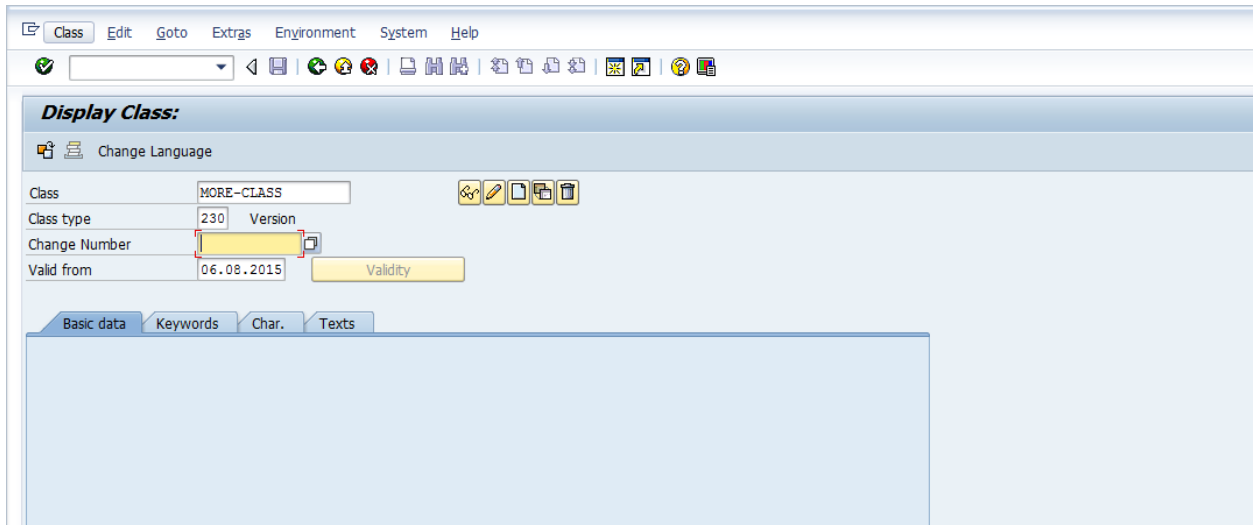
Table: IT_CABNZ Entries: 0

No.,IntMerkm ,TabName ,Feldname ,

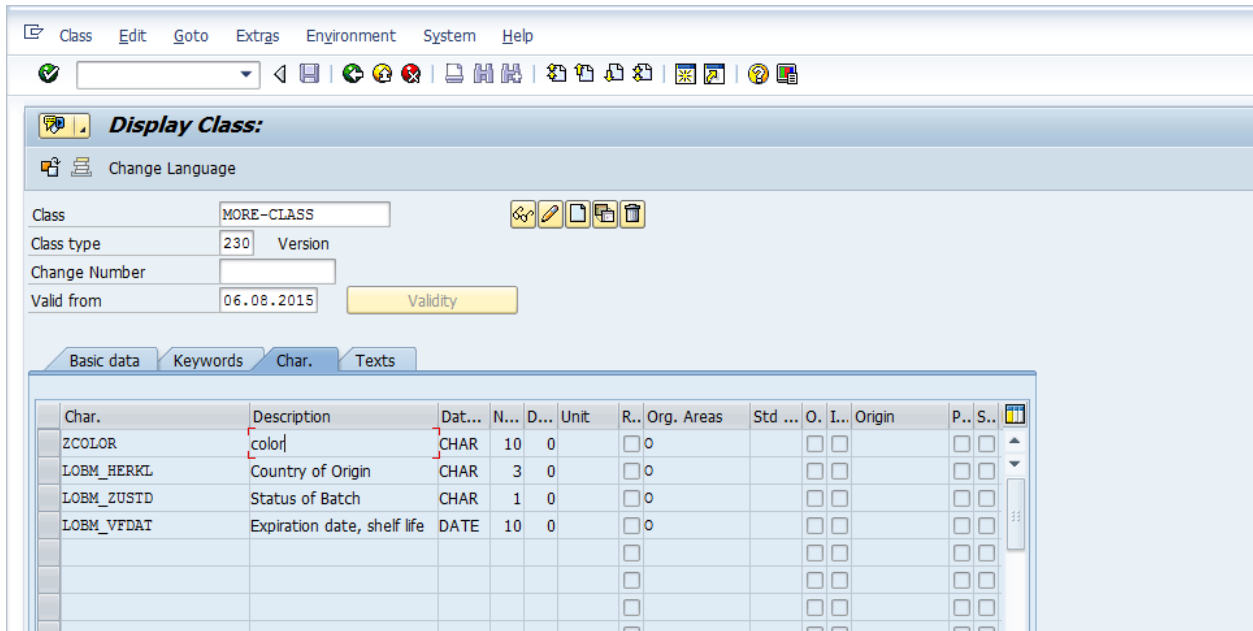
Table: IT_TCME Entries: 0

Now we can find Class 'MORE-CLASS' in EWM system

T Code: CL03



Here we can have the class type 230 in the EWM system



Now we can move the material in EWM along with batch (T Code : CFM1)

Program Edit Goto System Help

Model Name MORE
Logical System EWMCLNT400
APO Application BATCH

Material Dependent Objects

<input type="checkbox"/> Materials	<input type="checkbox"/> Plants
<input type="checkbox"/> MRP Area Matl	<input type="checkbox"/> MRP areas
<input type="checkbox"/> AMPL	
<input type="checkbox"/> Customer Mat.	
<input type="checkbox"/> Planning Matl	<input type="checkbox"/> Supply Area
<input type="checkbox"/> ATP Check	
<input type="checkbox"/> SimpleDis	
<input type="checkbox"/> Extern. Plant	
<input type="checkbox"/> Contracts	<input type="checkbox"/> SchedAgreements
<input type="checkbox"/> Pur.Info Record	
<input type="checkbox"/> PPM	
<input type="checkbox"/> PDS (ERP)	<input type="checkbox"/> BOM
<input type="checkbox"/> Storage Loc Stk	<input type="checkbox"/> Transit Stock

General Selection Options for Materials

Material	more-batch2		
Pint		to	
Matl Type		to	
PlantSpec. Mtl Stat		to	
MRP Ctrir		to	
MRP Type		to	
ABC Indicator		to	
Warehouse Number		to	

Program Edit Goto System Help

Create Integration Model

Sales Orders

Plan Ind. Reqs

Planned Orders

Prod. Campaign

POs and PReqs

Insp. Lots

Batches

SDSchedAgmt

Sched. VMI

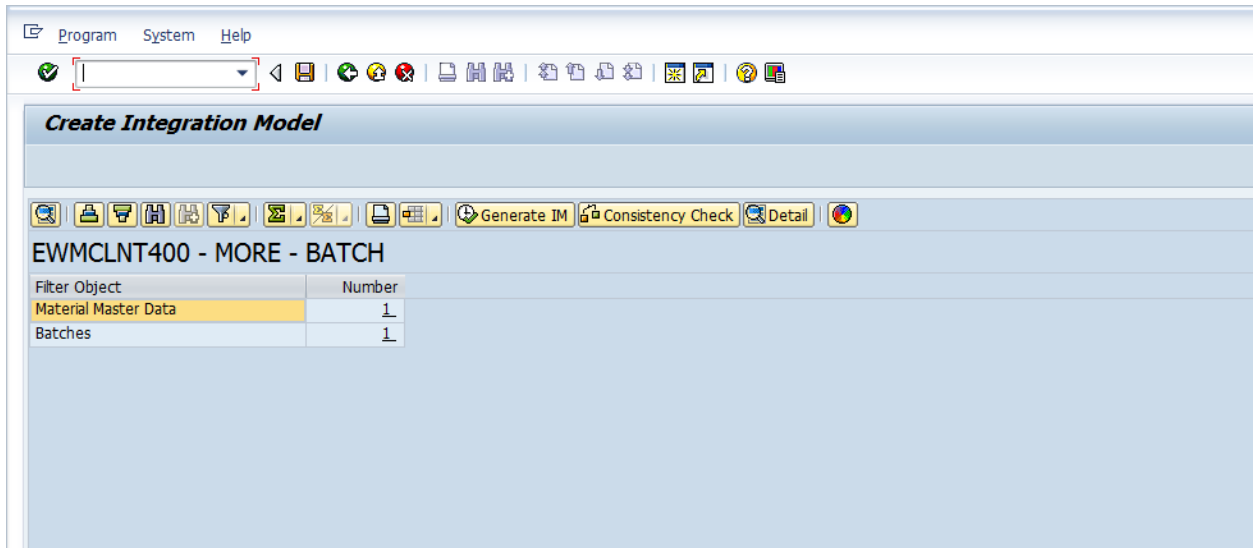
Req. Reduction

Prod. Order

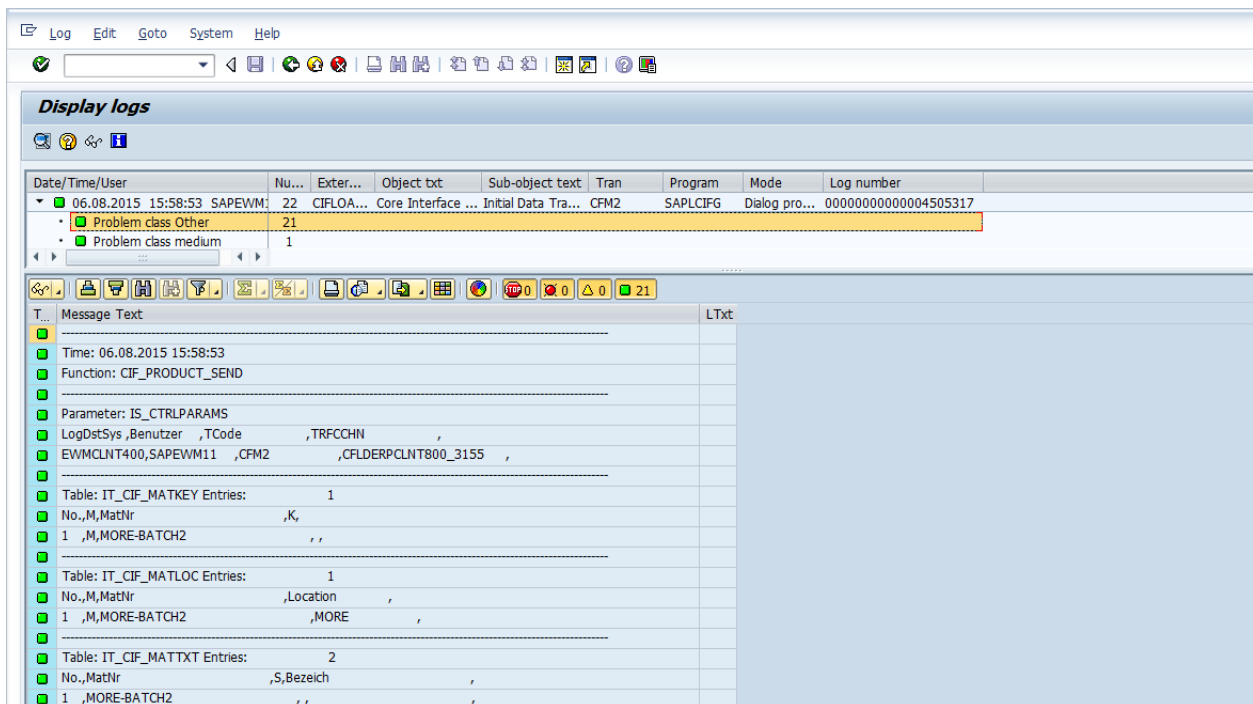
Manual Reserv.

Material Independent Objects

<input type="checkbox"/> ATP Customizing	<input type="checkbox"/> Product Alloc.
<input type="checkbox"/> Prod.All. Cust.	
<input type="checkbox"/> Customers	<input type="checkbox"/> Vendors
<input type="checkbox"/> Shipping Points	
<input type="checkbox"/> Work Centers	<input type="checkbox"/> Classes/Charact
<input type="checkbox"/> Change Number	<input type="checkbox"/> Setup Groups
<input type="checkbox"/> Shipments	
<input type="checkbox"/> Maint.Order	<input type="checkbox"/> Network



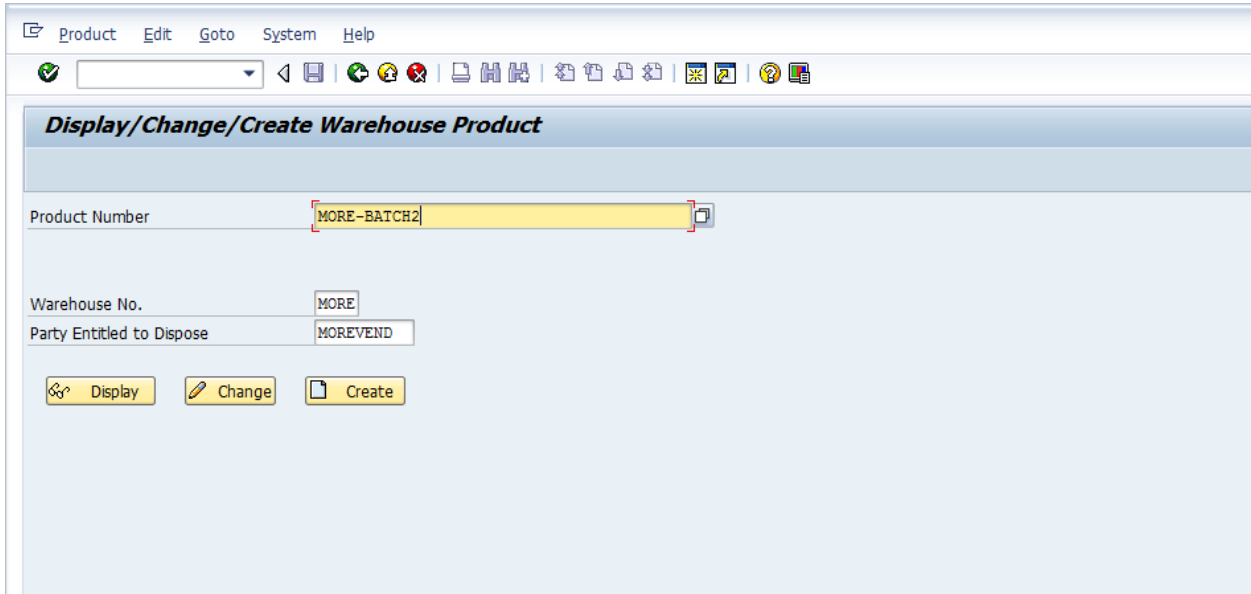
Activate Integration model (T Code: CFM2).



Now material and batch distributed to EWM system

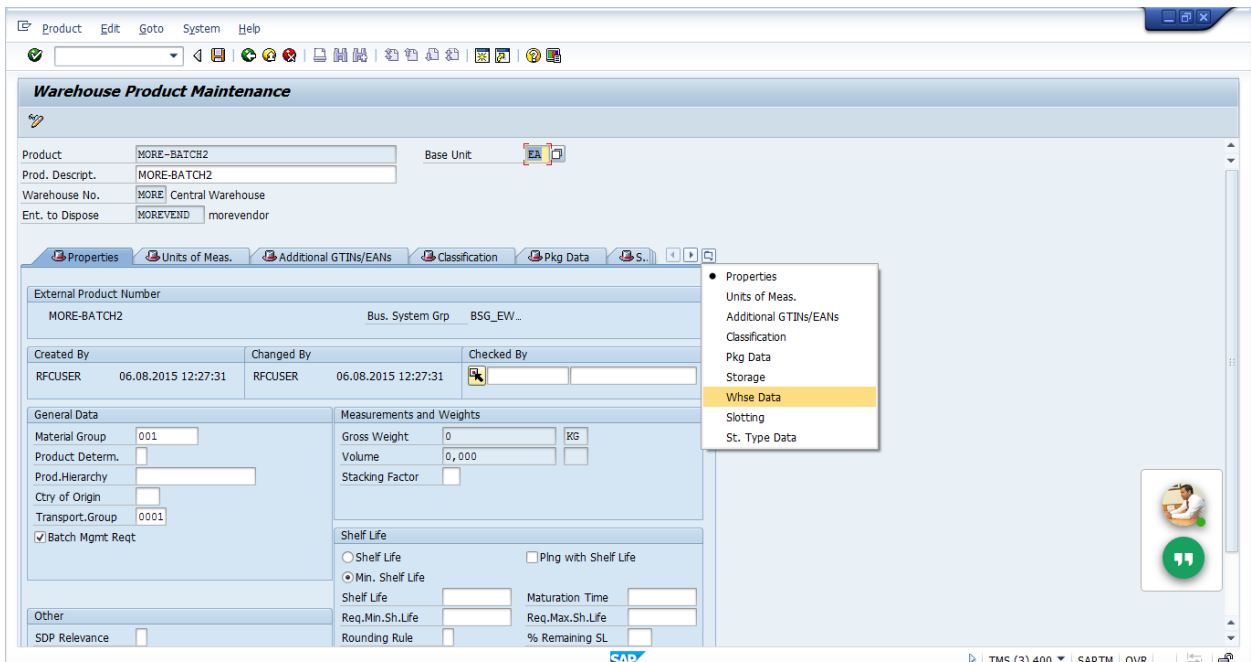
Maintain the warehouse product

T Code : /SCWM/MAT1



The screenshot shows the SAP 'Display/Change/Create Warehouse Product' interface. At the top, there is a menu bar with 'Product', 'Edit', 'Goto', 'System', and 'Help'. Below the menu is a toolbar with various icons. The main area contains the following fields and buttons:

- Product Number:** MORE-BATCH2
- Warehouse No.:** MORE
- Party Entitled to Dispose:** MOREVEND
- Buttons:** Display, Change, Create



The screenshot shows the SAP 'Warehouse Product Maintenance' interface. At the top, there is a menu bar with 'Product', 'Edit', 'Goto', 'System', and 'Help'. Below the menu is a toolbar with various icons. The main area contains the following fields and sections:

- Product:** MORE-BATCH2
- Base Unit:** EA
- Prod. Descript.:** MORE-BATCH2
- Warehouse No.:** MORE Central Warehouse
- Ent. to Dispose:** MOREVEND morevendo
- Properties:** External Product Number (MORE-BATCH2), Bus. System Grp (BSG_EW_)
- Created By:** RFCUSER 06.08.2015 12:27:31
- Changed By:** RFCUSER 06.08.2015 12:27:31
- Checked By:** [Empty field]
- General Data:** Material Group (001), Product Determ. ([Empty]), Prod.Hierarchy ([Empty]), Ctry of Origin ([Empty]), Transport.Group (0001), [x] Batch Mgmt Req
- Measurements and Weights:** Gross Weight (0) KG, Volume (0,000), Stacking Factor ([Empty])
- Shelf Life:** [x] Shelf Life, [] Ping with Shelf Life, [x] Min. Shelf Life, Maturation Time ([Empty]), Req.Min.Sh.Life ([Empty]), Req.Max.Sh.Life ([Empty]), Rounding Rule ([Empty]), % Remaining SL ([Empty])
- Other:** SDP Relevance ([Empty])
- Right Panel:** Properties, Units of Meas., Additional GTINs/EANs, Classification, Pkg Data, Storage, Whse Data (highlighted), Slotting, St. Type Data

Now Check the Batch in EWM

SAP Easy Access- SCM Extended Warehouse Management- Extended Warehouse Management- Master Data- Product - Maintain Batches for Product

T Code : - /SCWM/WM_BATCH_MAINT

Maintain Batches for Product

Product: more-batch2
Batch: 0000000406

Display Change Create

Batch: Display

Batch Description

Product	MORE-BATCH2
Batch	0000000406

Administrative Data

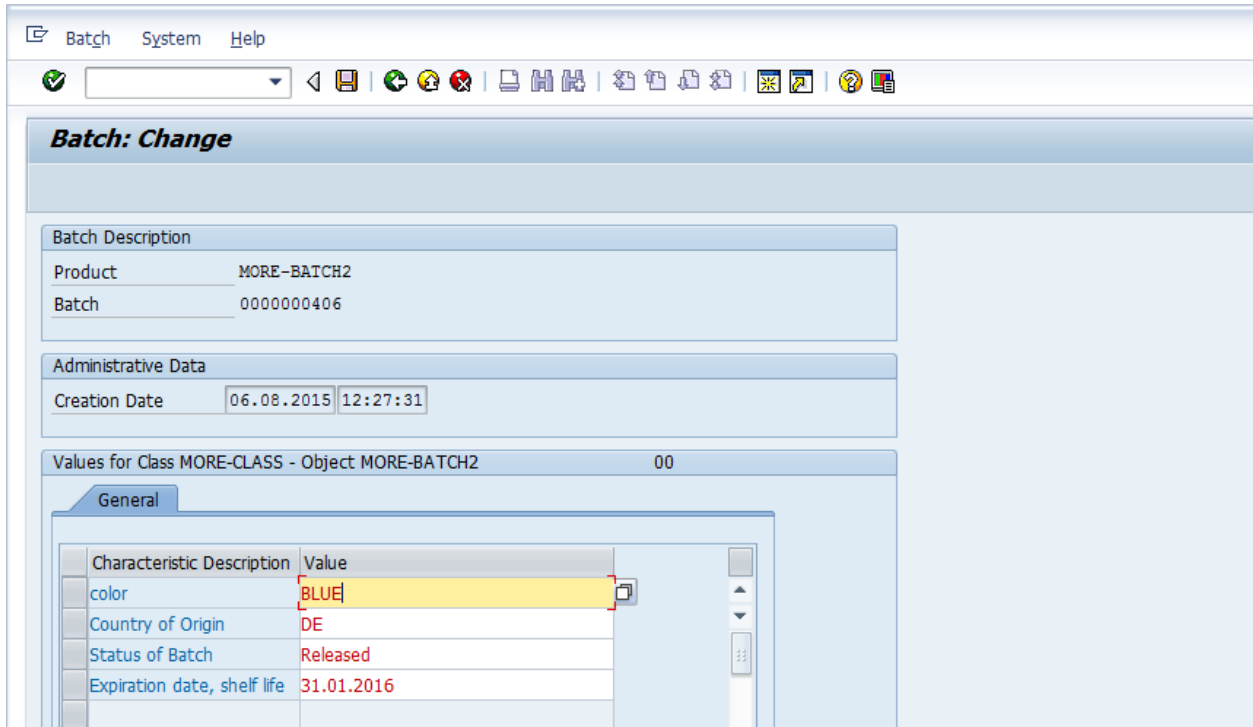
Creation Date	06.08.2015 12:27:31
---------------	---------------------

Values for Class MORE-CLASS - Object MORE-BATCH2 00

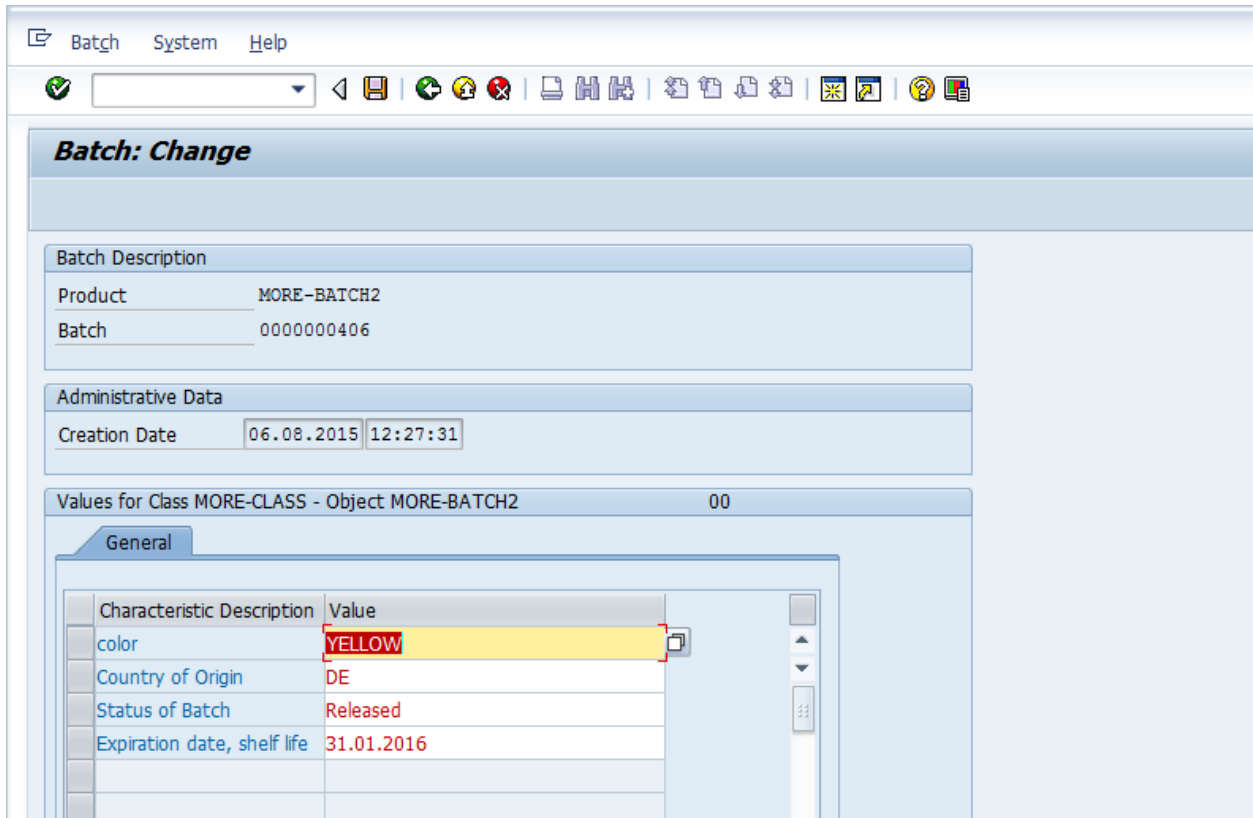
General

Characteristic Description	Value
color	BLUE
Country of Origin	DE
Status of Batch	Released
Expiration date, shelf life	31.01.2016

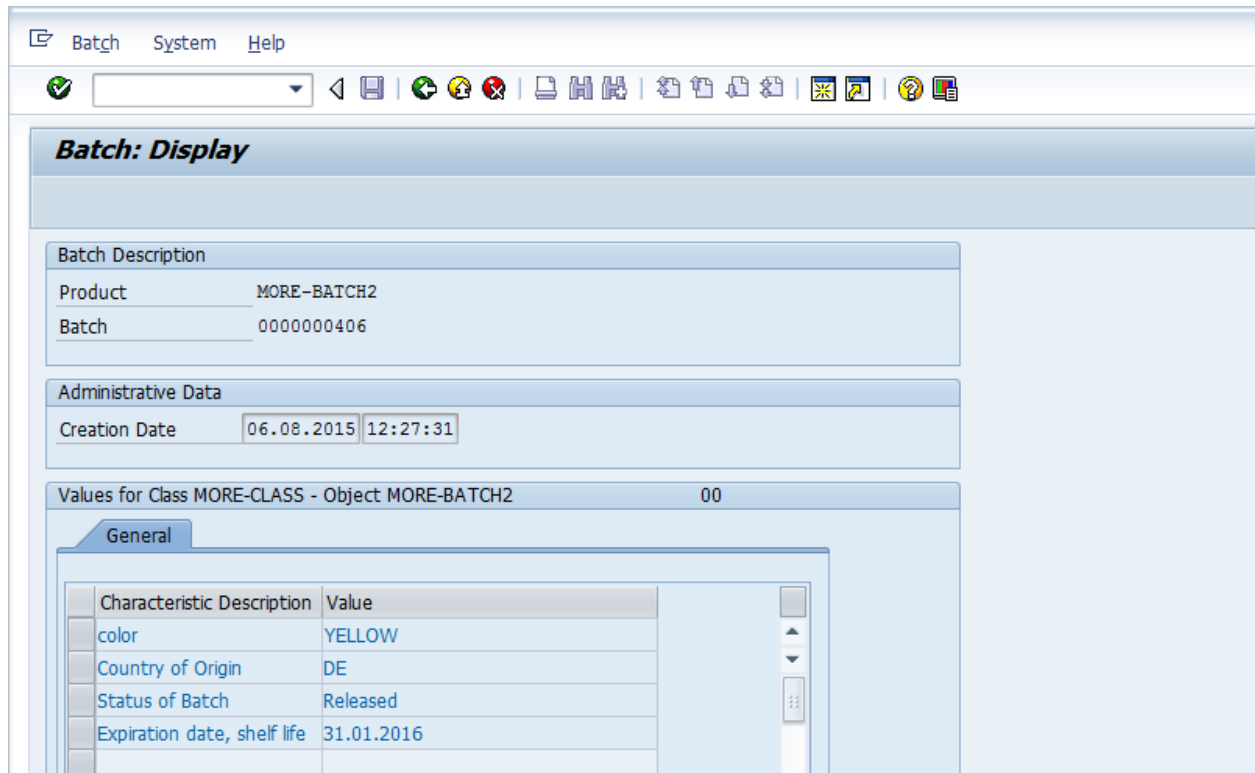
If we change any characteristic value in EWM, that can be updated automatically in ECC



Here we are changing the color from BLUE to YELLOW

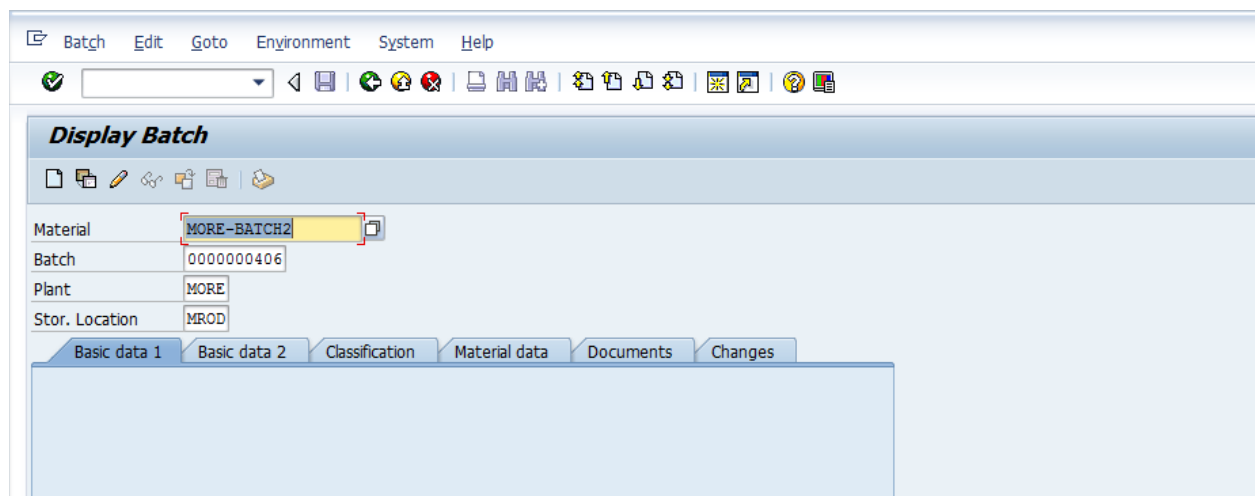


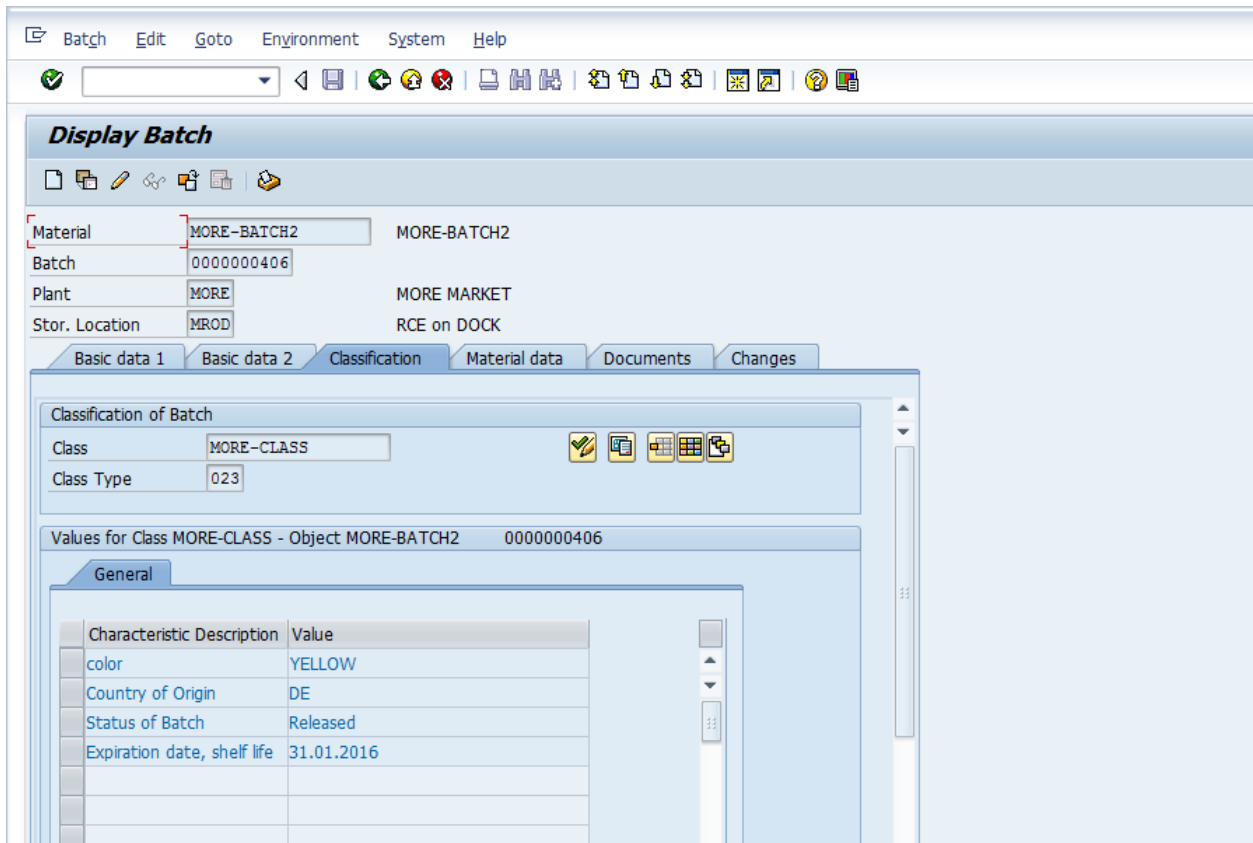
Now color has changed



Now go to ECC to check the batch

T Code : MSC3N





Now Batch is updated

Organizational area set up in both systems.

ECC:

SPRO-IMG-Cross-Application Components-Classification System-Classes-Maintain Object Types and Class Types

Table View Edit Goto Selection Utilities(M) System Help

Change View "Object Table": Overview

New Entries

Dialog Structure

- Object Table
 - Class Types
 - Objects
 - Class Status
 - Organizational Areas
 - Text Types
 - Classification Stat
 - Functions/Filters

Table	Table text
IMPR	Cap. inv. program items
IMPTT	Measuring point
INET	Object link
IRLOT	Ref. functional location
KKRAMERK	Controlling objects
KNA1	Customer
LFA1	Vendor
MARA	Material
MCHA	Batch
OIFSPBL	Business location
PLKO	Task list
PLKOGMIL	General maintenance task list
PLKONET	Standard network
PLOGI	Structure Element
PNODID	PVS nodes
POSVID	Item variant of PVS
POSVIDAENNR	iPPE Variant with ECM
QMFE	Error
QMTB	Inspection method
QPAM	Selected set

Table View Edit Goto Selection Utilities(M) System Help

Change View "Object Table": Overview

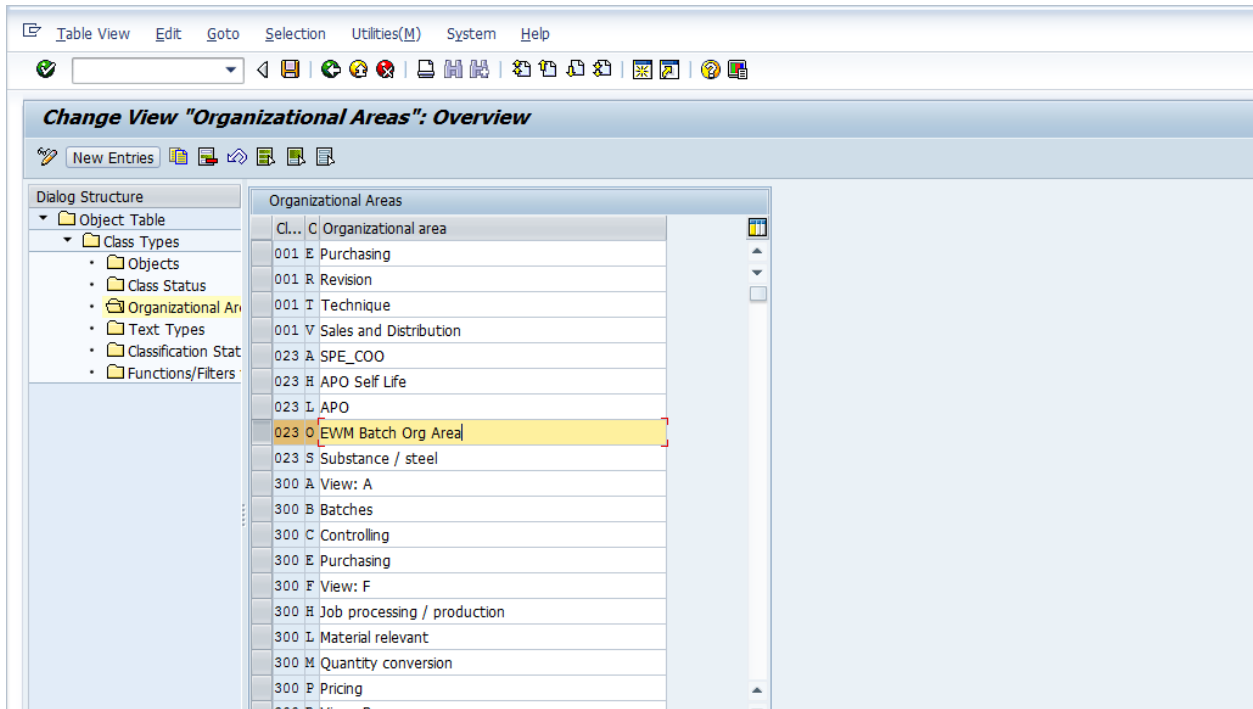
New Entries

Dialog Structure

- Object Table
 - Class Types
 - Objects
 - Class Status
 - Organizational Areas**
 - Text Types
 - Classification Stat
 - Functions/Filters

Table	Table text
IMPR	Cap. inv. program items
IMPTT	Measuring point
INET	Object link
IRLOT	Ref. functional location
KKRAMERK	Controlling objects
KNA1	Customer
LFA1	Vendor
MARA	Material
MCHA	Batch
OIFSPBL	Business location
PLKO	Task list
PLKOGMIL	General maintenance task list
PLKONET	Standard network
PLOGI	Structure Element
PNODID	PVS nodes
POSVID	Item variant of PVS
POSVIDAENNR	iPPE Variant with ECM
QMFE	Error
QMTB	Inspection method
QPAM	Selected set

Position... Entry 34 of 73



EWM :

SPRO-IMG-Cross-Application Components-Classification System-Classes-Maintain Object Types and Class Types

