

### Lesson Objectives



Objectives -On successful completion of this training module, you should have:

- Understood the basics of Classification
- Purpose , use and challenge of Classification
- Important steps and Example for Classification

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# Training Agenda



- Purpose And Use Of Classification
- Terminology
- Objective Type And Class Type
- Classes, Class Status And Class Hierarchy
- Characteristics

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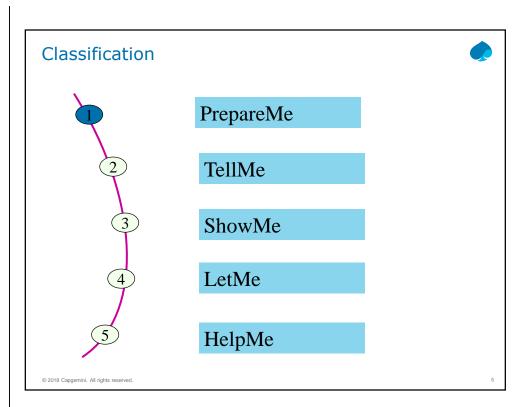
# Training Agenda

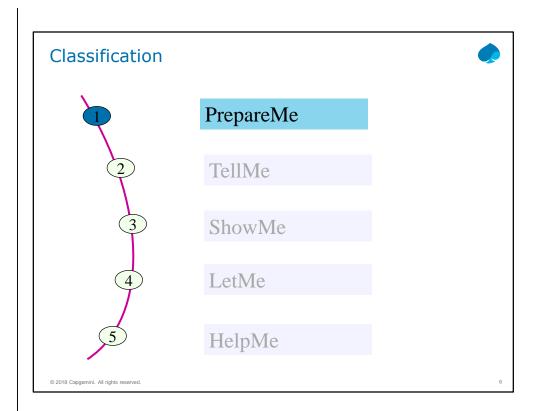


- Values
- Configuration
- Master Data
- Assignments Of Objects
- Examples
- Classification in Purchase Order Release Procedure
- Transport Classes And Characteristics.

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# Purpose



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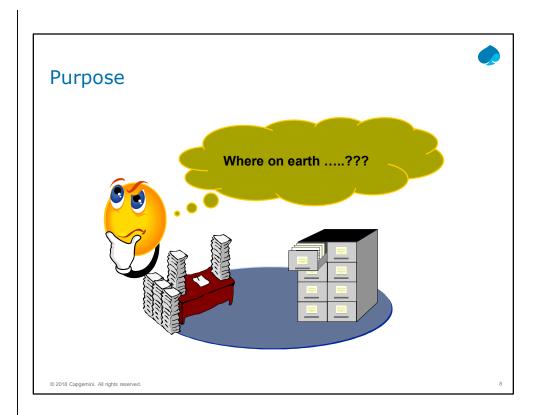
Classification is the process of assigning objects to classes and using the characteristics of the class to assign values to these objects. Classification helps in maintaining values to different characteristics under one class

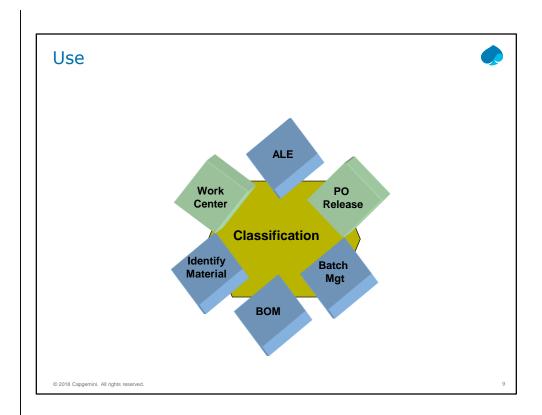
#### Example:

A Lancer Car has different Colors, Power, Capacity, Height. Here Car forms the Class and the Colors, Power, Capacity, Height forms its Characteristics.

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### Challenges



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• Classification System should be simple and at the same time cover all applicable Master Data and Documents.



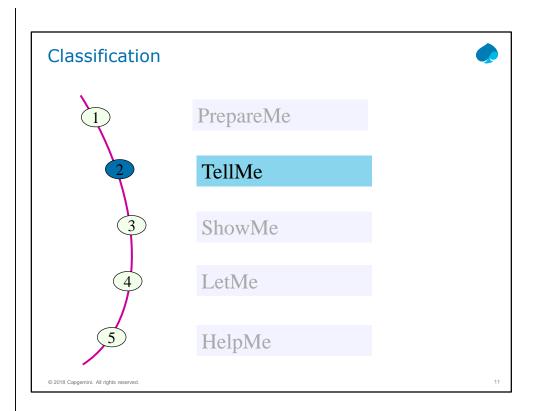


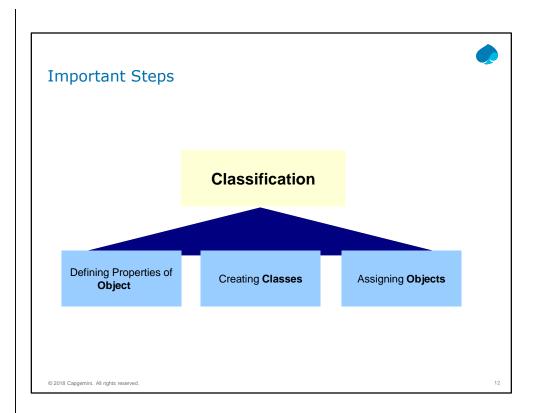
Different dimensional systems (metric MKS vs. English FPS) used across the world. This has a major impact on material classification based on characteristics which are measured in different dimensional systems (such as centimeters instead of inches) across the organization. This would effect material searches and would lead to having more than one material number for the same component.

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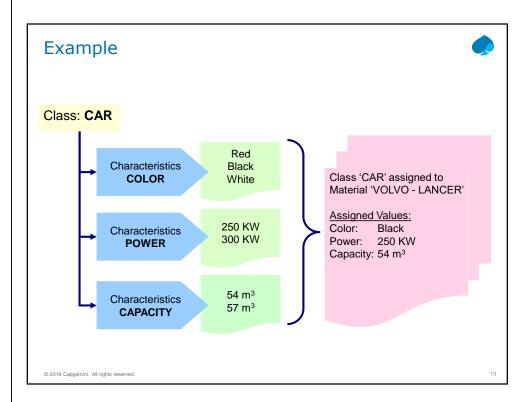
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# Terminology



Object type	The object type is inferred from a classifiable table.
Object	An object is a classifiable unit.
Class type	A class type is a top-level unit of control for classes.
Class	A class groups similar objects together.
Characteristic	A characteristic describes properties of an object.
Value	A value is a specific option for a characteristic.

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## Object Type



OBJECT TYPE MARA : Material MCHA: Batch

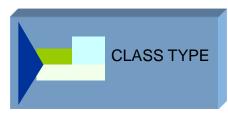
A Object Type is created with a SAP Table which also known as Object Table. All the Class Type are created under a Object Type Object Type Controls:

- •Screen in Classes (Trans Code: CL20N)
- •Sub screens that needs to be embed in the central assignment screens of the Classification
- •Screen Sequence for Class maintenance

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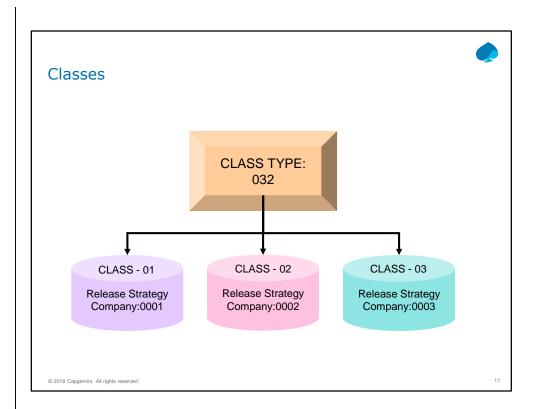
#### Class Type



- •Class Type is a Central component in the Classification System
- •Class Type determines how the Classes are processed and how objects can be classified in these classes
- •Each Class Type are assigned to an Object Type. The Classes created with these Class Type can be used to classify the objects of this Object type Example of Object Type: Material, Release Strategy
- •Examples of Class Type are:
   001: Class Type for Material

  - 300: Class Type for Variant Configuration
  - 200: Class Type for Bill of Material

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#### **Class Status**



#### Class Status determines

- •Whether a Class can be maintained
- •Whether objects can be allocated to a Class
- •Whether the Class can be used for selecting objects

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### Characteristics





 $\bullet$  The values maintained in a Characteristics specifies the properties of an Object

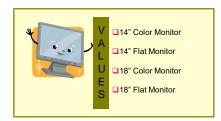
Example: Characteristics 'COLOR' has the value Red, Blue...

• Characteristics are created centrally and are assigned to the Classes

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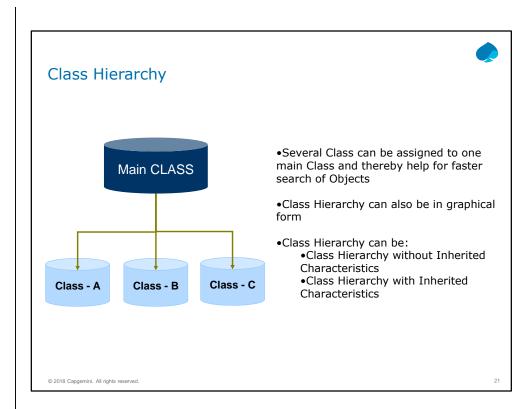
### **Values**

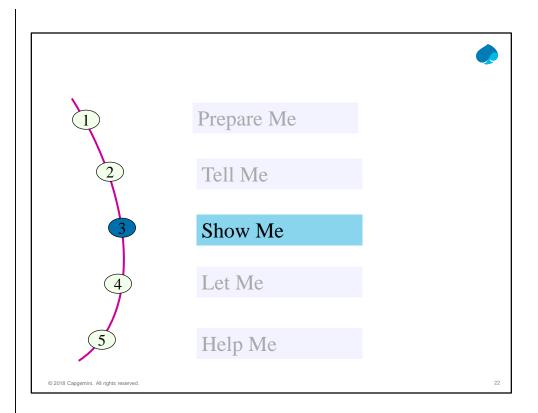


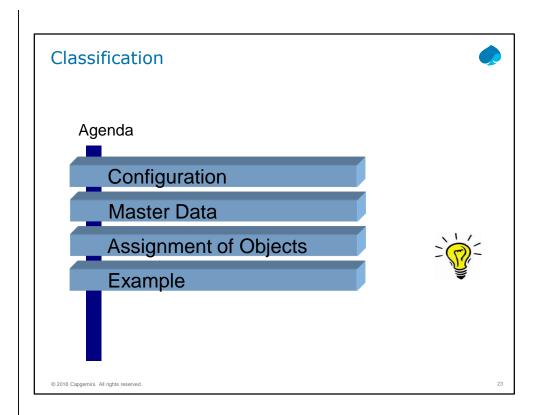


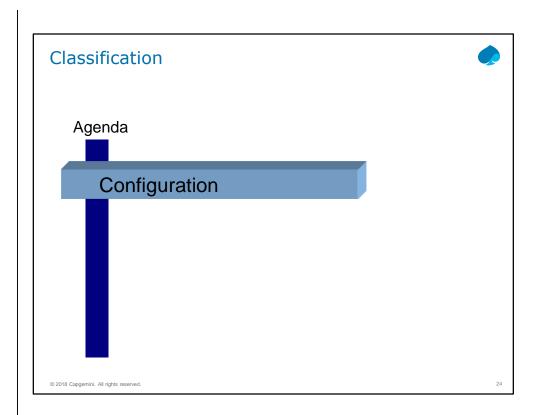
- List of allowed Values can be maintained for a Characteristics, from which any one can be selected while classifying the Object
- A Value in a Characteristics can also be made default
- Intervals can be maintained for Values. Example: Gross Price between 10 USD to 1000 USD
- Table can also be used to check the Allowed Values maintained in the Characteristics

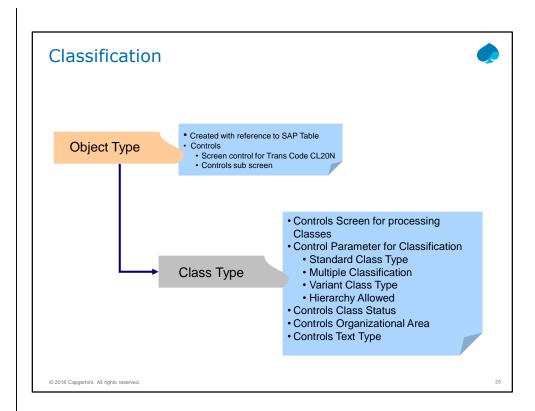
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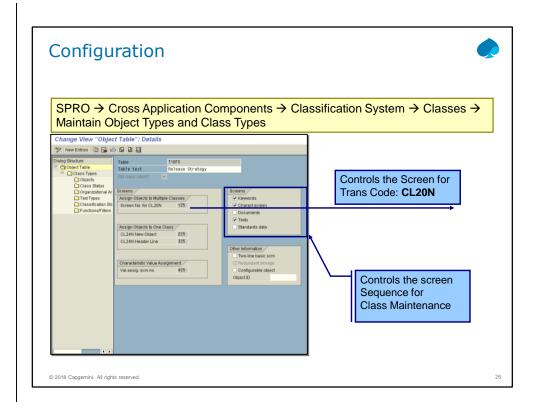








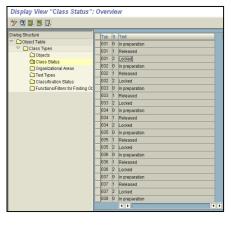




### Configuration



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

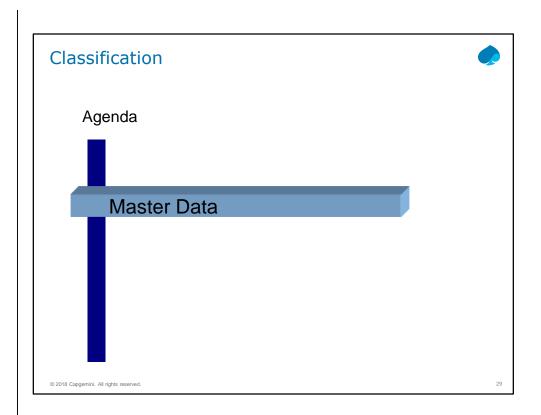


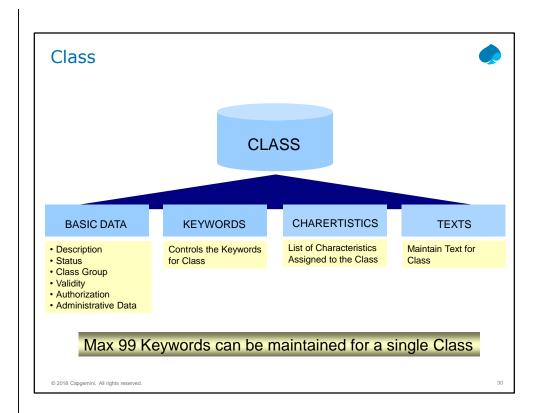


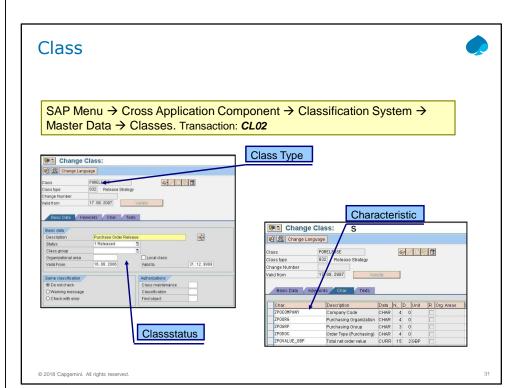
Status in Class Type Controls:

- Class Maintenance Functions allowed
- Allows to allocate objects to Class
- ALE Control

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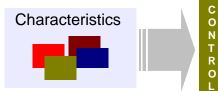






#### Characteristics

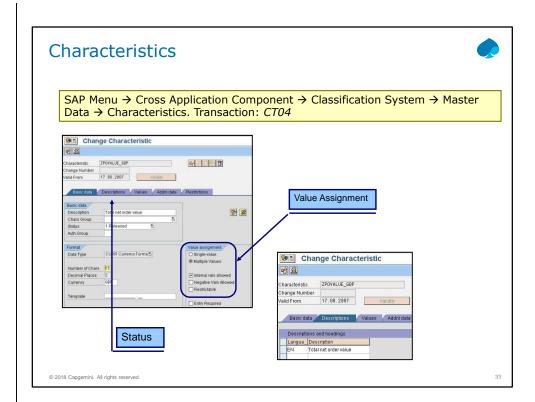


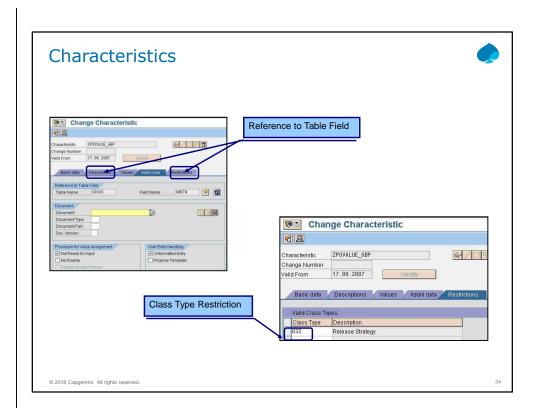


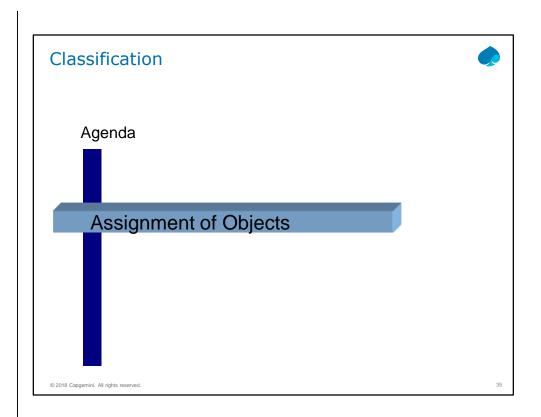
- Description of the Characteristics
- Status
- · Characteristics Group
- · Data Type
- Value Assignment Control
- Table Name
- Field Name
- Document Control
- · Maintaining Characteristics Value
- •Characteristics are always created with a Class Type
- •The various Data Type allowed are
  - •Character Format Alpha numeric characters allowed
  - •Currency Format
  - •Date Format Periods of time or concrete points in time
  - •Numeric Format Only Numbers allowed
  - •Time Format Periods of time or concrete points in time

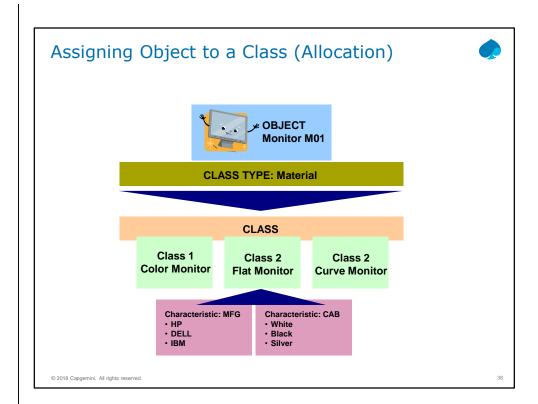
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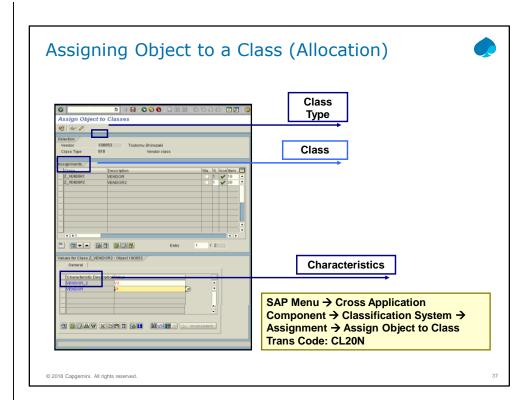
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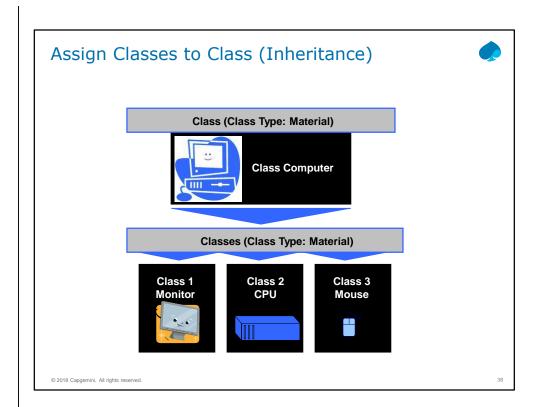




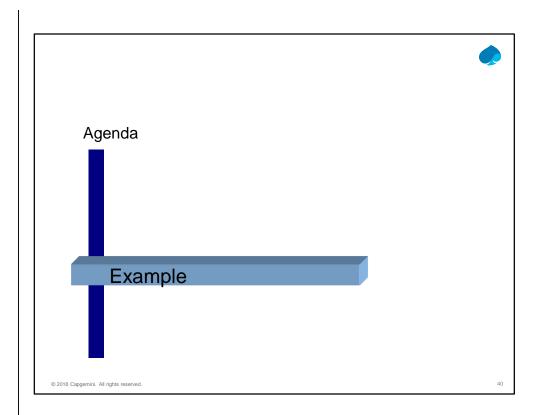


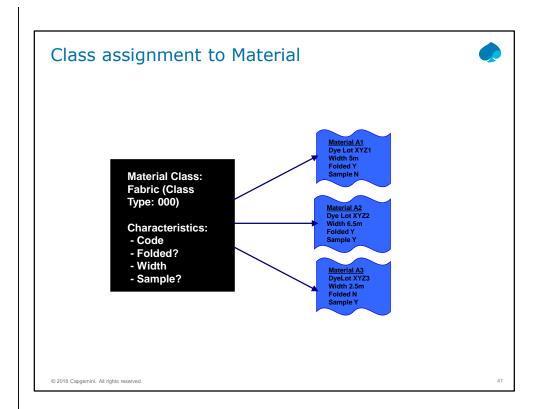


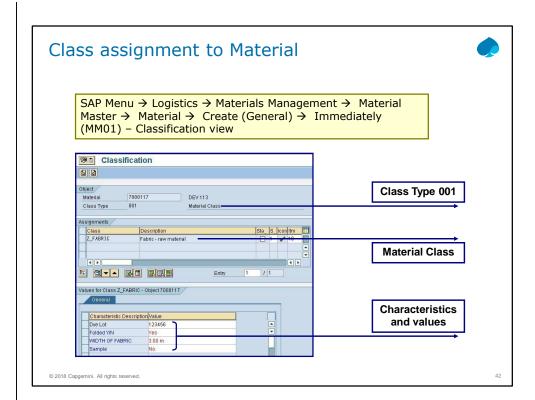




### Assign Classes to Class (Inheritance) SAP Menu $\rightarrow$ Cross Application Component $\rightarrow$ Classification System $\rightarrow$ Assignment $\rightarrow$ Assign Class to Class Trans Code: CL24N Assign Objects/Classes to Class 唱 昼 🚱 🖉 🗋 Only new assignments Selection Class Class Computers Class Type 001 **Class Type** O S I Object text Class to be assigned here





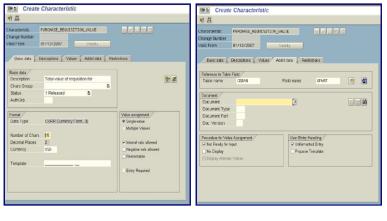




# Assign Class to Release Strategy



SAP Menu  $\rightarrow$  Central Functions  $\rightarrow$  Classification system  $\rightarrow$  Master Data  $\rightarrow$  Characteristics



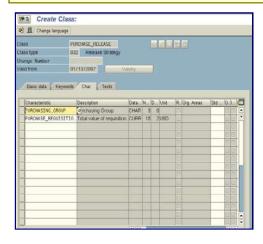
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Class: SAP Menu  $\rightarrow$  Central Functions  $\rightarrow$  Classification system  $\rightarrow$  Master Data  $\rightarrow$  Classes

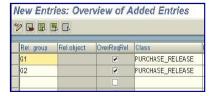


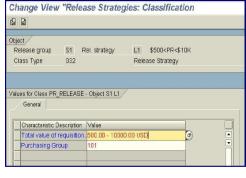
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## Assign Class to Release Strategy



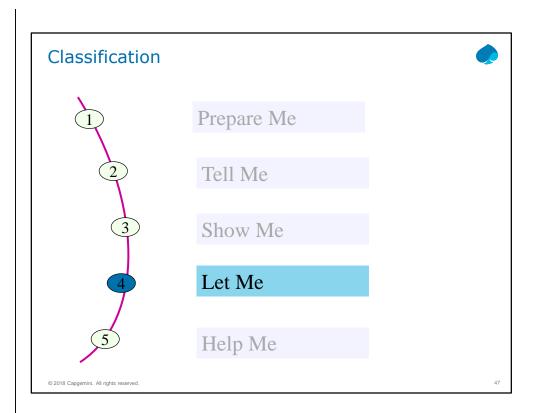
IMG → Materials Management → Purchasing → <Purchasing Object> → Release Procedure for <Purchasing Object> → Define Release Procedure for <Purchasing Object>





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### Let Me

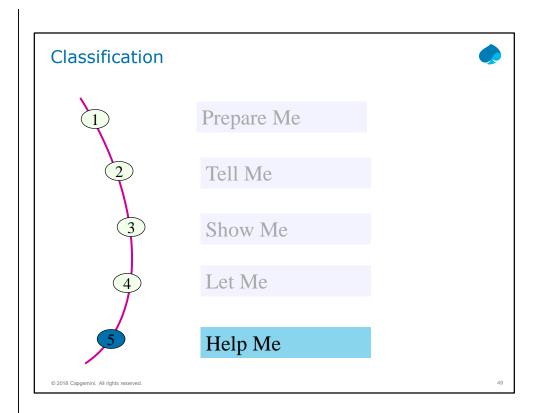


#### Classification in Purchase Order Release Procedure:

XYZ Corporation manufactures Monitors and Computer accessories. It has 10 Purchasing Groups (P01 – P10). The PO Release Strategy was partially configured before the Consultant was replaced. Release Group RG (containing codes AM – Assistant Manager and MG – Manager, SM – Sr. Manager and VP – Vice President). You are the new Consultant in charge of taking the process forward and the you have the following as the first task.

- •Create a Release Class (of Type 032) and assign to Release Group RG.
- •Create Release Characteristics PO\_PURGRP representing the Purchasing groups and assign values based on the existing Purchasing groups and PO\_VAL representing the total net order value of the PO.
- •Define Release Indicators (B-Blocked, R-Released)
- •Define a Release Strategy RG-S1 (Release Codes AM and MG and prerequisites being in that order and under classification assign values P01 and 0-5000 \$)
- •Create a Purchase Order and test the Release Strategy

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### **Tips**



#### **Transport Classes and Characteristics**

The values you assigned to characteristics in Development client cannot Be transported. They are stored in characteristic value tables that must be moved through your SAP environments via the ALE (Application Link Enabling) function.



It is therefore important to remember to request ALE with your transport. Following figure is a sample spreadsheet of transaction codes, which you can provide to your Basis team

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# Tips



### Transport Classes and Characteristics (Inputs for ALE)

Object	Transaction	Message Type
Characteristics: Purchasing_Group PR_Value	BD91	CHRMAS
Class: PR_Release Class Type: 032	BD92	CLSMAS
Class: PR_Release Class Type: 032	BD93	CLFMAS

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## **Additional Information**



### Standard Class Types in SAP

Class Type	Description
001	Material Class
002	Equipment Class
003	Functional Location
004	Reference Functional Location
005	Inspection Characteristics
006	Inspection Methods
007	Code Groups
008	Selected Sets
009	Production Resources and Tools
010	Vendor Class
011	Customer Class
012	Characteristics Class
013	Controlling: Orders
014	Controlling: Projects
015	Message item
016	Object Link
017	Document Management

Class Type	Description
018	Task List Class
019	Work Center Class
020	Standard Network Class
021	Network
022	Batch
023	Batch
024	Dependency
025	Engineering Change Management
026	Retailing System Article Structure
027	Business Process
028	Variable List
029	Variant Tables
030	Plant
031	User-Defined Data Type
032	Release Strategy
033	Investment Program Positions
034	Department

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### Additional Information

### Standard Class Types in SAP

Class Type	Description
035	Site Hierarchy
036	Functions
037	Measuring Point
038	Activity
039	Master Warranty
040	Sequence
041	Funds Centers
042	Fund
043	Commitment Item
044	Characteristic Value
047	Assortment
048	Object Link
049	Licenses
050	Reconciliation
051	Costing Model
053	iPPE Node
054	iPPE Variance Scheme

Class Type	Description
055	Contract Class
056	iPPE Variant
060	Layout areas
070	Trial Management
100	Characteristic Values for Substance
101	Trial Results (Process Parameters)
102	Process Parameter Value Assignment
170	Document Distribution
200	Material (Configurable Objects)
201	Document (Configurable Objects)
300	Variants
301	Model Service Specifications
501	Contact Person
502	Relations
503	Opportunities
504	Activities
800	Business Location

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