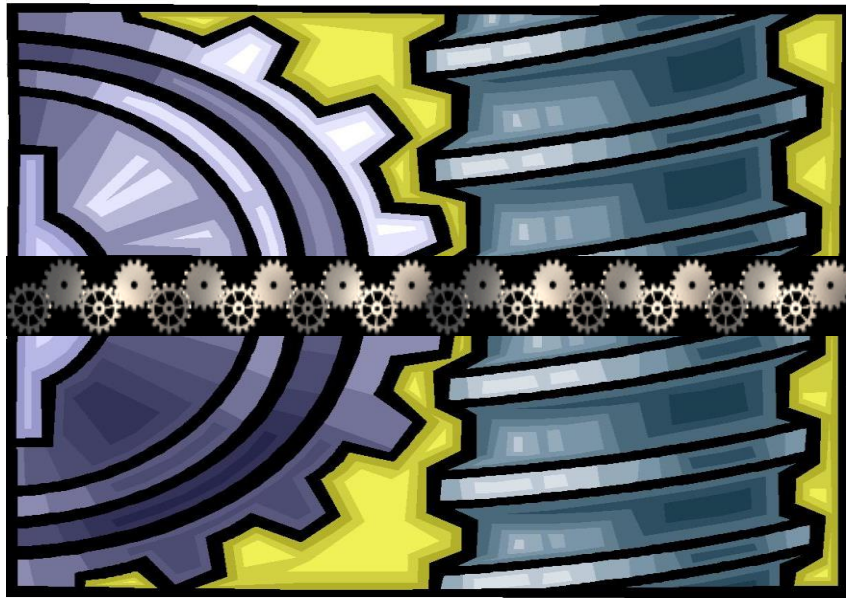# CLASSIFICATION

Course ID : PP1012_ Classificaton_v1.0

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

Training Agenda

➢Purpose And Use Of Classification

➢Terminology

➢Objective Type And Class Type

➢Classes, Class Status And Class Hierarchy
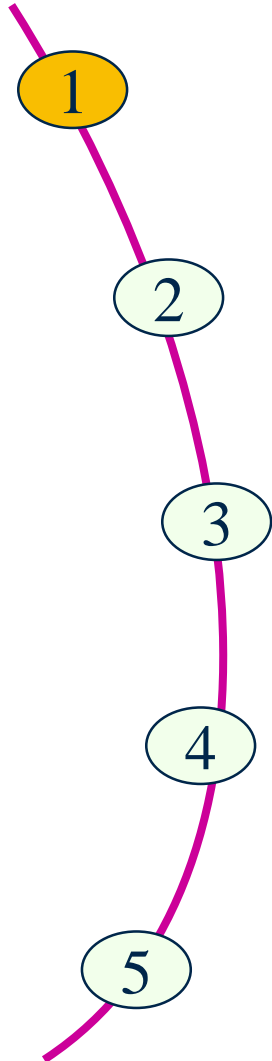
➢Characteristics

Training Agenda

➢ Values

➢ Configuration

➢ Master Data

➢ Assignments Of Objects

➢ Examples

➢ Classification in Purchase Order Release Procedure

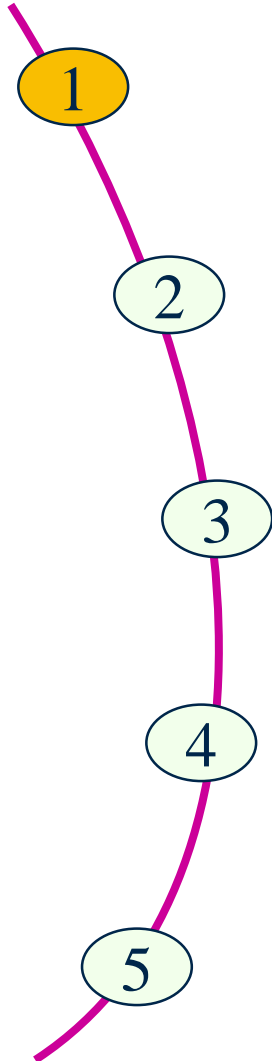➢ Transport Classes And Characteristics.

Classification

1. PrepareMe

2. TellMe

3. ShowMe

4. LetMe

5. HelpMe

Classification

1 **PrepareMe**

2 TellMe

3 ShowMe

4 LetMe

5 HelpMe

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Purpose

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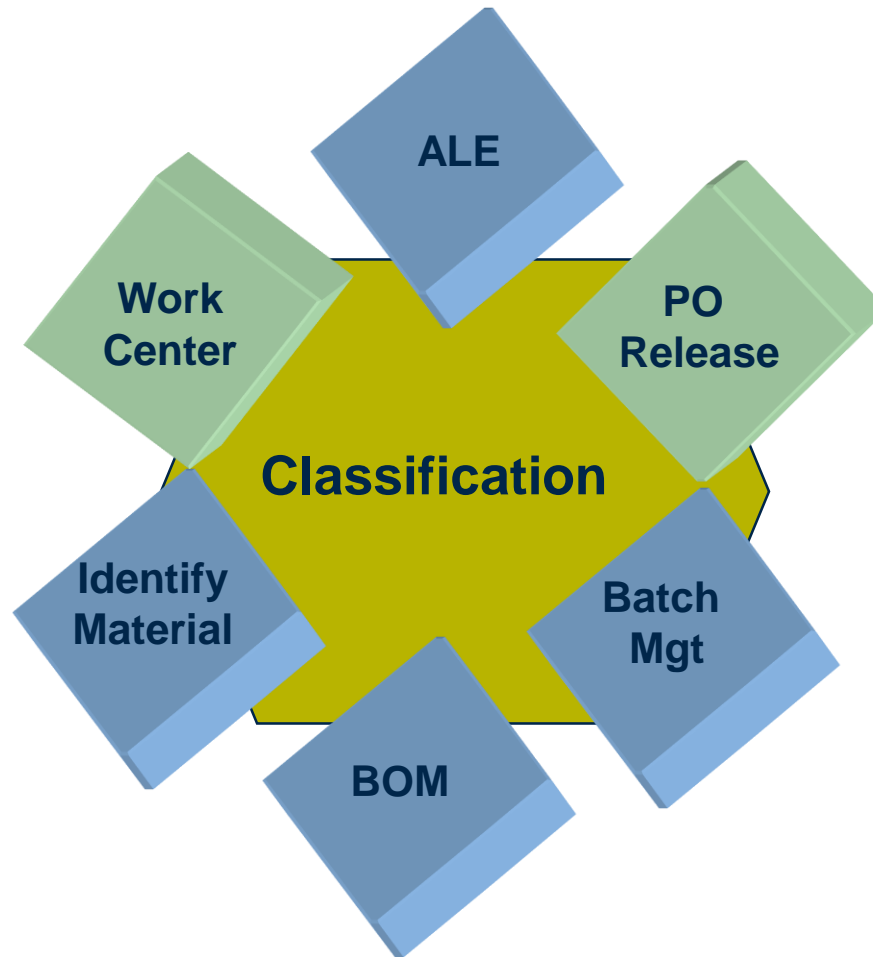
Example:
A Lancer Car has different Colors, Power, Capacity, Height.
Here Car forms the Class and the Colors, Power, Capacity, Height forms its Characteristics.

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING
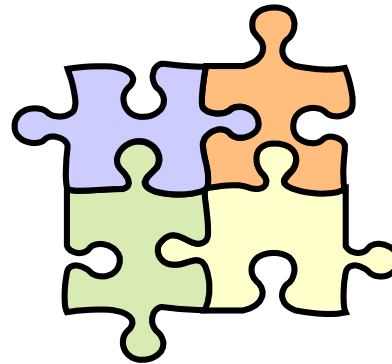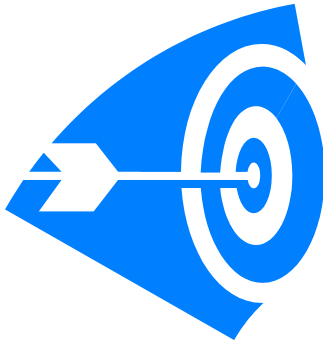
Purpose

Where on earth …..???

Use

Challenges

- 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.

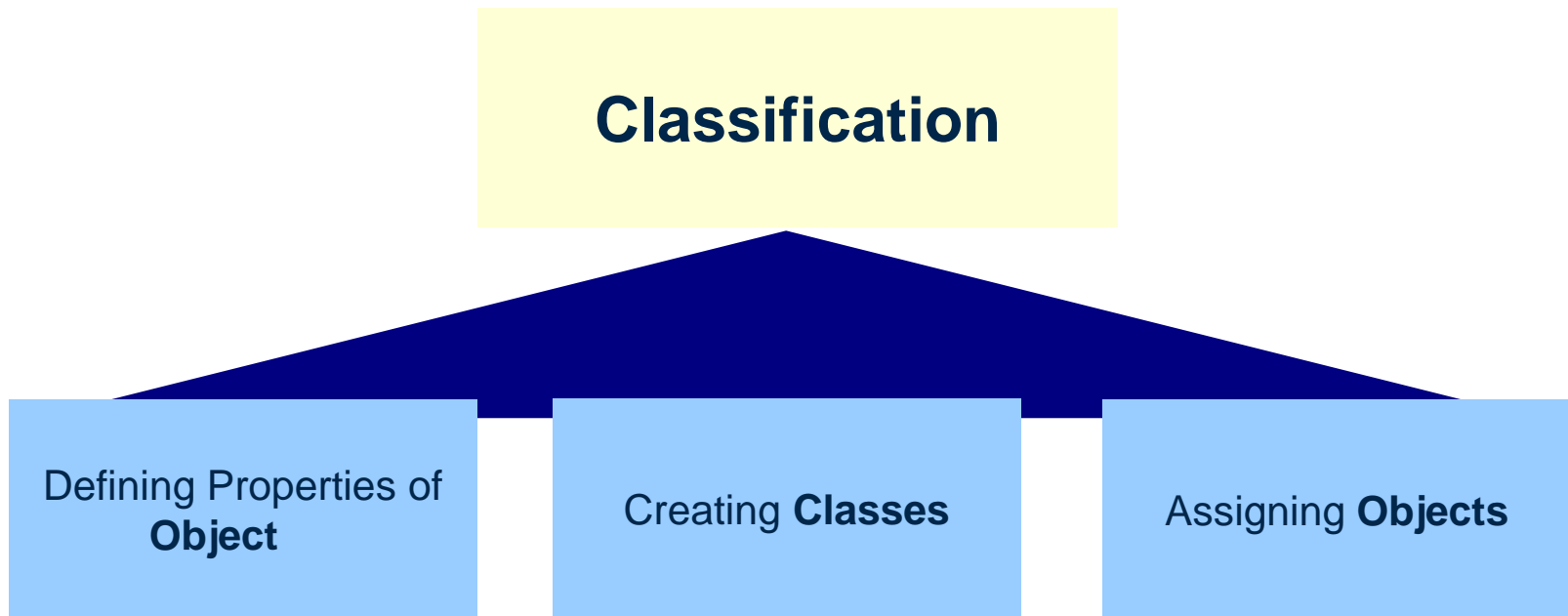# Classification

1

2

3
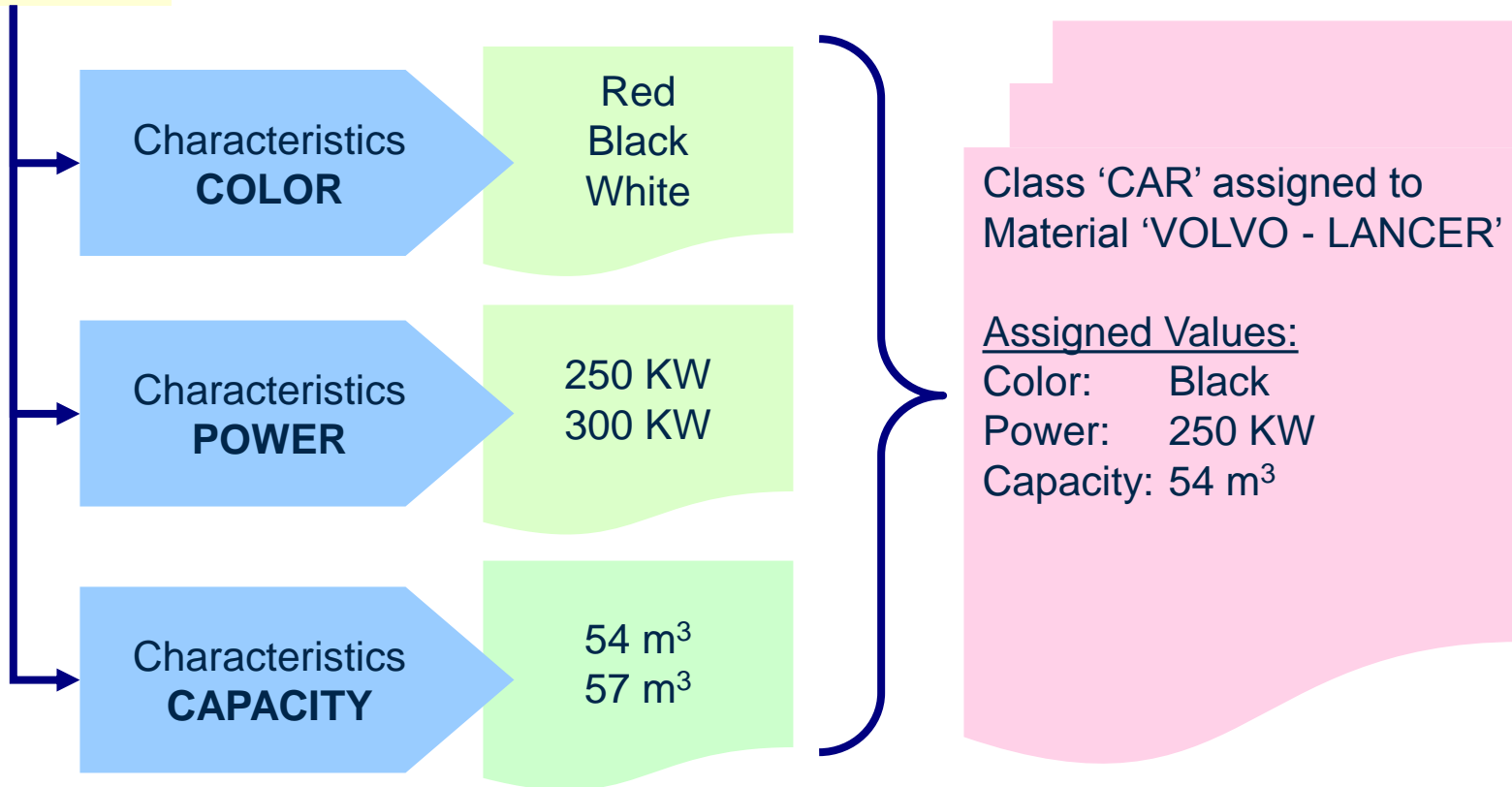
4

5

PrepareMe

TellMe

ShowMe

LetMe

HelpMe

Important Steps

Classification

| Defining Properties of **Object** | Creating **Classes** | Assigning **Objects** |

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Example

Class: **CAR**

```
Characteristics      Red
COLOR                Black
                     White

Characteristics      250 KW
POWER                300 KW

Characteristics      54 m³
CAPACITY             57 m³
```

Class 'CAR' assigned to Material 'VOLVO - LANCER'

Assigned Values:
Color: Black
Power: 250 KW
Capacity: 54 m³

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.

Object Type

OBJECT TYPE
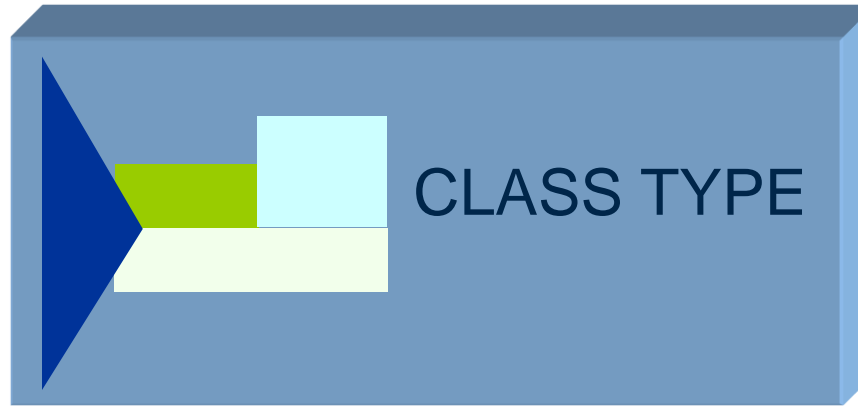**MARA : Material**
MCHA: Batch
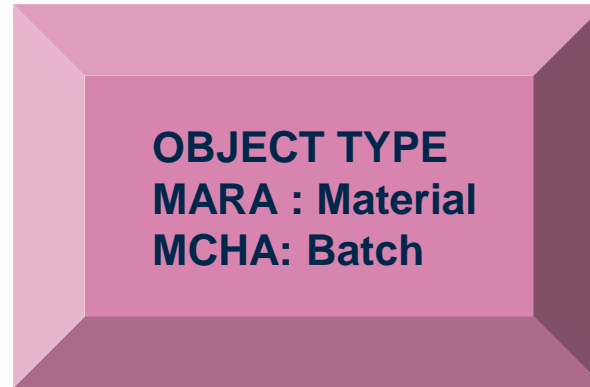
A Object Type is created with a SAP Table which also known as Object Table.
All the Class Type are created under a Object Type
Object Type Controls:

- 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
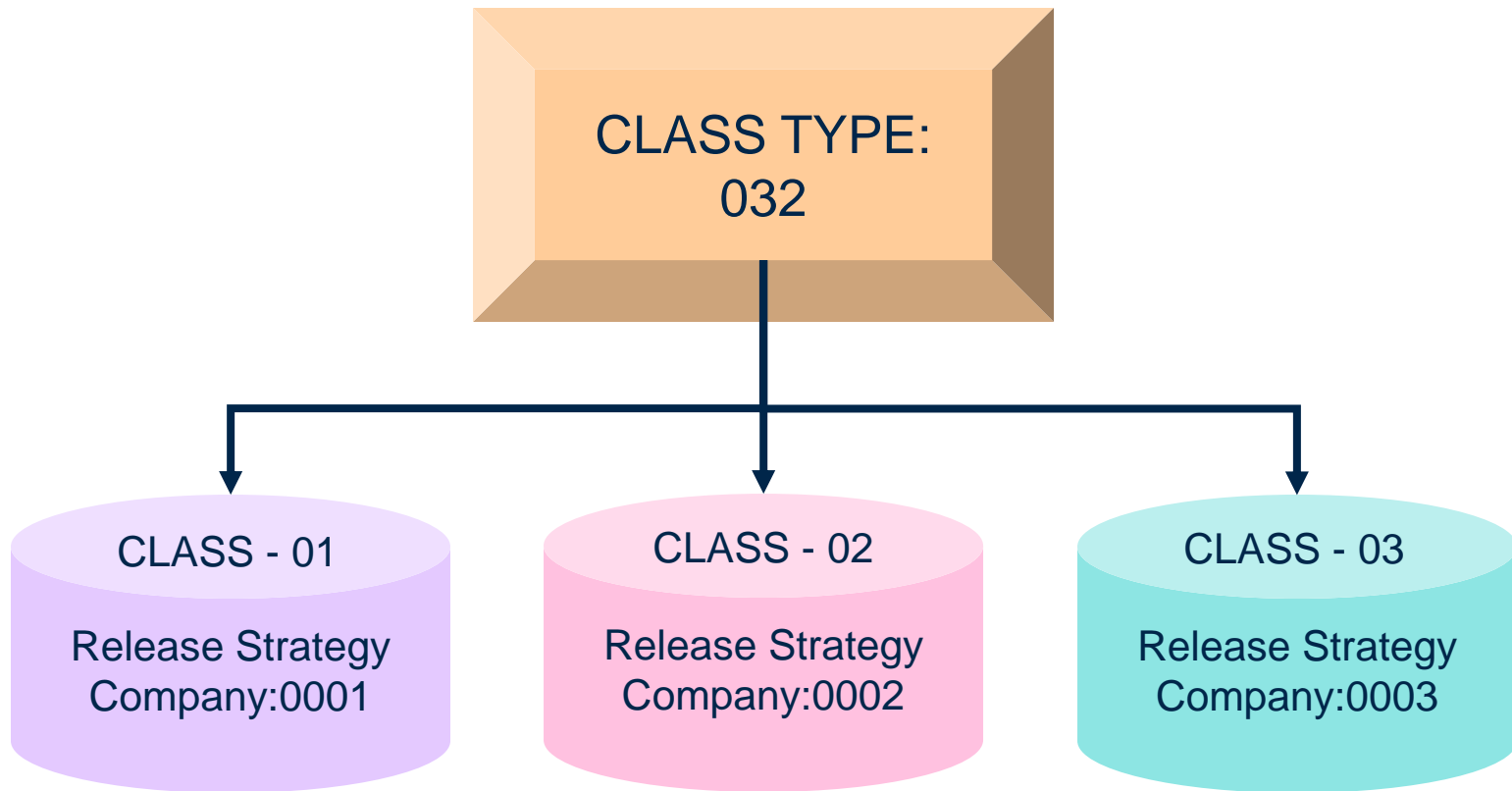
Class Type

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
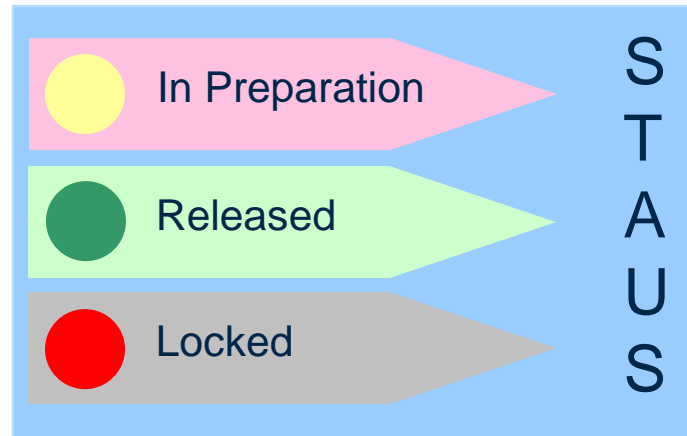   - Example of Object Type: Material, Release Strategy
- Examples of Class Type are:
    - 001: Class Type for Material
    - 300: Class Type for Variant Configuration
    - 200: Class Type for Bill of Material

Classes

CLASS TYPE:
032

CLASS - 01
Release Strategy
Company:0001

CLASS - 02
Release Strategy
Company:0002

CLASS - 03
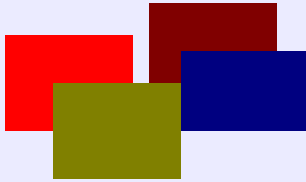Release Strategy
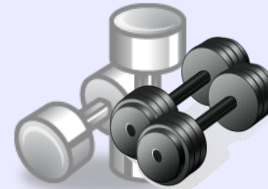Company:0003

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

Characteristics

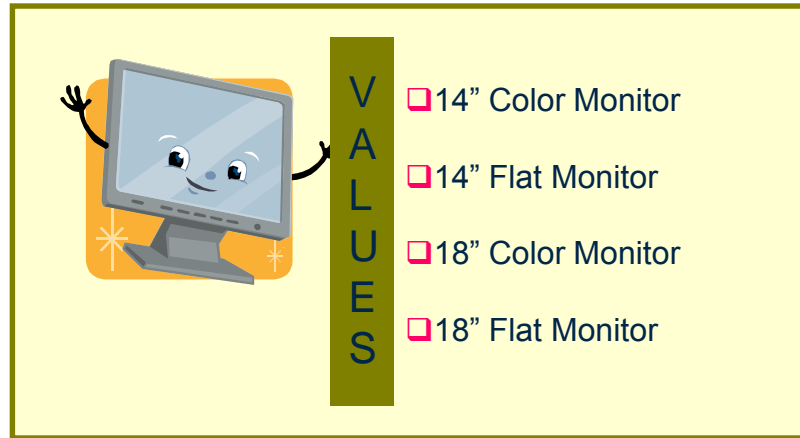Characteristics '**COLOR**'

Characteristics '**WEIGHT**'

- 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

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

Class Hierarchy

Main CLASS

Class - A   Class - B   Class - C
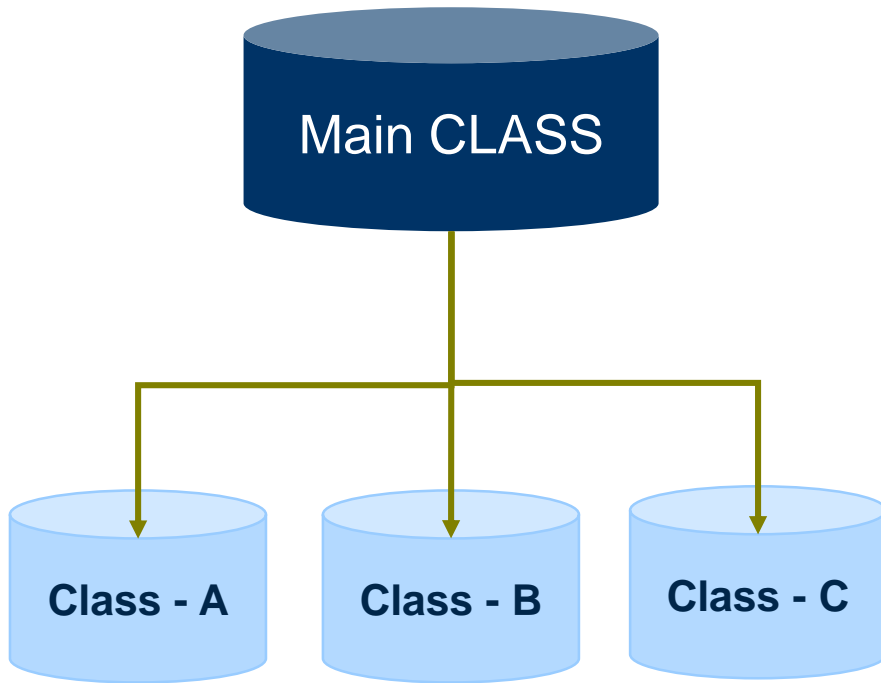
•Several Class can be assigned to one main Class and thereby help for faster search of Objects

•Class Hierarchy can also be in graphical form

•Class Hierarchy can be:
  •Class Hierarchy without Inherited Characteristics
  •Class Hierarchy with Inherited Characteristics

1

2

3

4

5
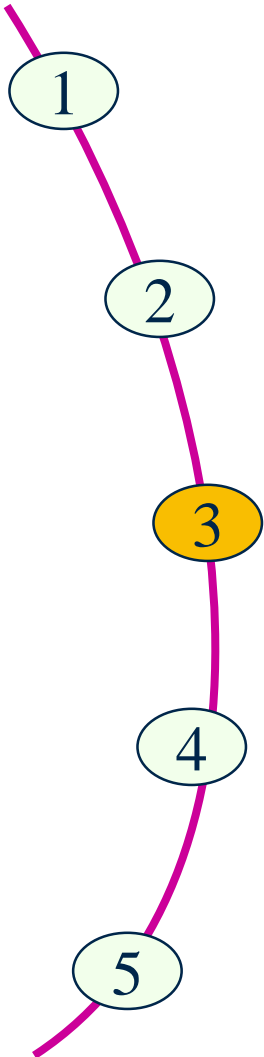
Prepare Me

Tell Me

Show Me

Let Me

Help Me

Classification

Agenda

Configuration

Master Data

Assignment of Objects

Example

Classification

Agenda

Configuration

Classification

Object Type

- Created with reference to SAP Table
- Controls
  - Screen control for Trans Code CL20N
  - Controls sub screen

Class Type

- Controls Screen for processing Classes
- Control Parameter for Classification
  - Standard Class Type
  - Multiple Classification
  - Variant Class Type
  - Hierarchy Allowed
- Controls Class Status
- Controls Organizational Area
- Controls Text Type

Configuration

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

Change View "Object Table": Details

New Entries

Dialog Structure
- Object Table
  - Class Types
    - Objects
    - Class Status
    - Organizational Ar
    - Text Types
    - Classification Sta
    - Functions/Filters

Table   T16FS
Table text   Release Strategy
Std class. object ☑

Screens

Assign Objects to Multiple Classes
Screen No. for CL20N   125

Assign Objects to One Class
CL24N New Object   225
CL24N Header Line   325

Characteristic Value Assignment
Val.assig. scrn no.   425

Screens
- ☑ Keywords
- ☑ Charact screen
- ☐ Documents
- ☑ Texts
- ☐ Standards data

Other Information
- ☐ Two-line basic scrn
- ☐ Redundant storage
- ☐ Configurable object
- Object ID

Controls the Screen for Trans Code: **CL20N**

Controls the screen Sequence for Class Maintenance

Configuration

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

Display View "Class Types": Details

Dialog Structure
- ▽ 📁 Object Table
  - ▽ 📂 Class Types
    - 📁 Objects
    - 📁 Class Status
    - 📁 Organizational Areas
    - 📁 Text Types
    - 📁 Classification Status
    - 📁 Functions/Filters for Finding Objects

Class Type   032 Release Strategy

Object
Table   T16FS

Screens
- ☑ Keywords
- ☑ Characteristics
- ☐ Documents
- ☑ Texts
- ☐ Standards data

Functions
- ☑ Standard Class Type
- ☐ Multiple classification
- ☐ Class. in master rec.
- ☐ Variant class type
- ☐ Multiple objs allowed
- ☐ Class node
- ☐ Distr. class type
- ☑ Hierarchy allowed
- ☐ Generated tables

Classifications
- ☐ ECH (time)
- ☐ ECH (parameter)
- ☐ Change docs

SAP Table on which the Object Type is created

Controls whether Hierarchy is possible with this Class Type

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

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

Classification

Agenda
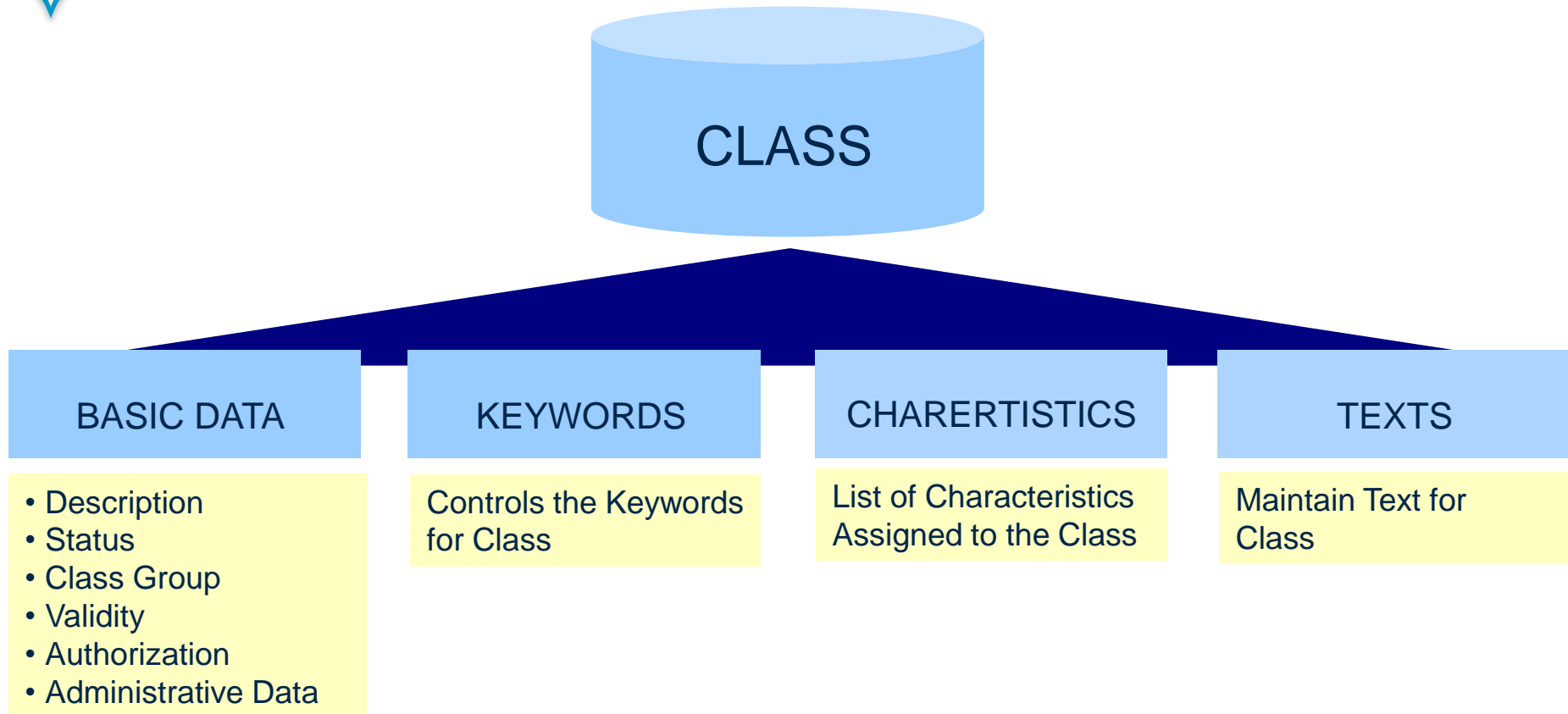
Master Data

Class

CLASS

```
        ┌─────────────┬─────────────┬─────────────┬─────────────┐
     BASIC DATA     KEYWORDS      CHARERTISTICS     TEXTS
```

BASIC DATA

- Description
- Status
- Class Group
- Validity
- Authorization
- Administrative Data

KEYWORDS

Controls the Keywords for Class

CHARERTISTICS

List of Characteristics Assigned to the Class

TEXTS

Maintain Text for Class

Max 99 Keywords can be maintained for a single Class

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Class

Class Type

Characteristic

Classstatus

Characteristics

Characteristics

→

C O N T R O L

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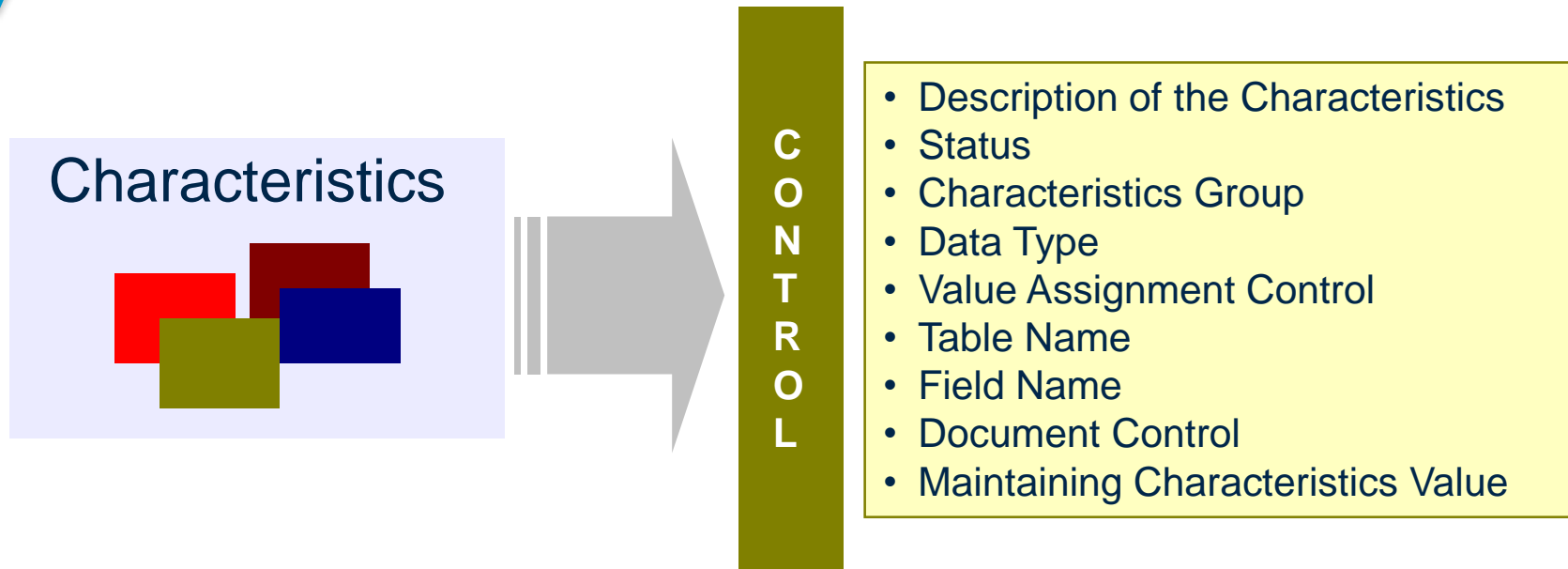
- Characteristics are always created with a Class Type
- The various Data Type allowed are
    - Character Format – Alpha numeric characters allowed
    - Currency Format
    - Date Format – Periods of time or concrete points in time
    - Numeric Format – Only Numbers allowed
    - Time Format – Periods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

Characteristics

Value Assignment

Status

Characteristics

Change Characteristic

Characteristic: ZPOVALUE_GBP
Change Number:
Valid From: 17.08.2007   Validity

Basic data | Descriptions | Values | Addnl data | Restrictions

Reference to Table Field
Table Name: CEKKO   Field Name: GNETW

Document
Document:
Document Type:
Document Part:
Doc. Version:

Procedure for Value Assignment
☑ Not Ready for Input
☐ No Display
☐ Display Allowed Values

User Entry Handling
☑ Unformatted Entry
☐ Propose Template

Reference to Table Field

Change Characteristic

Characteristic: ZPOVALUE_GBP
Change Number:
Valid From: 17.08.2007   Validity

Basic data | Descriptions | Values | Addnl data | Restrictions

Valid Class Types

Class Type	Description
032	Release Strategy

Class Type Restriction

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Classification

Agenda

Assignment of Objects

Assigning Object to a Class (Allocation)

OBJECT Monitor M01

CLASS TYPE: Material

CLASS

Class 1 Color Monitor	Class 2 Flat Monitor	Class 2 Curve Monitor

Characteristic: MFG
- HP
- DELL
- IBM

Characteristic: CAB
- White
- Black
- Silver

Assigning Object to a Class (Allocation)

Class Type

Class

Characteristics

SAP Menu → Cross Application Component → Classification System → Assignment → Assign Object to Class
Trans Code: CL20N

Assign Classes to Class (Inheritance)

Class (Class Type: Material)

Class Computer

Classes (Class Type: Material)

| Class 1 Monitor | Class 2 CPU | Class 3 Mouse |

Assign Classes to Class (Inheritance)

SAP Menu → Cross Application Component → Classification System → Assignment → Assign Class to Class
Trans Code: CL24N

Assign Objects/Classes to Class

Only new assignments

Selection
Class   Computers
Class Type   001

Class

Class Type

Assignments

O   S   I   Object text

Class to be assigned here

Agenda

Example

Class assignment to Material

Material Class:
Fabric (Class Type: 000)

Characteristics:
 - Code
 - Folded?
 - Width
 - Sample?

Material A1
Dye Lot XYZ1
Width 5m
Folded Y
Sample N

Material A2
Dye Lot XYZ2
Width 6.5m
Folded Y
Sample Y

Material A3
DyeLot XYZ3
Width 2.5m
Folded N
Sample Y
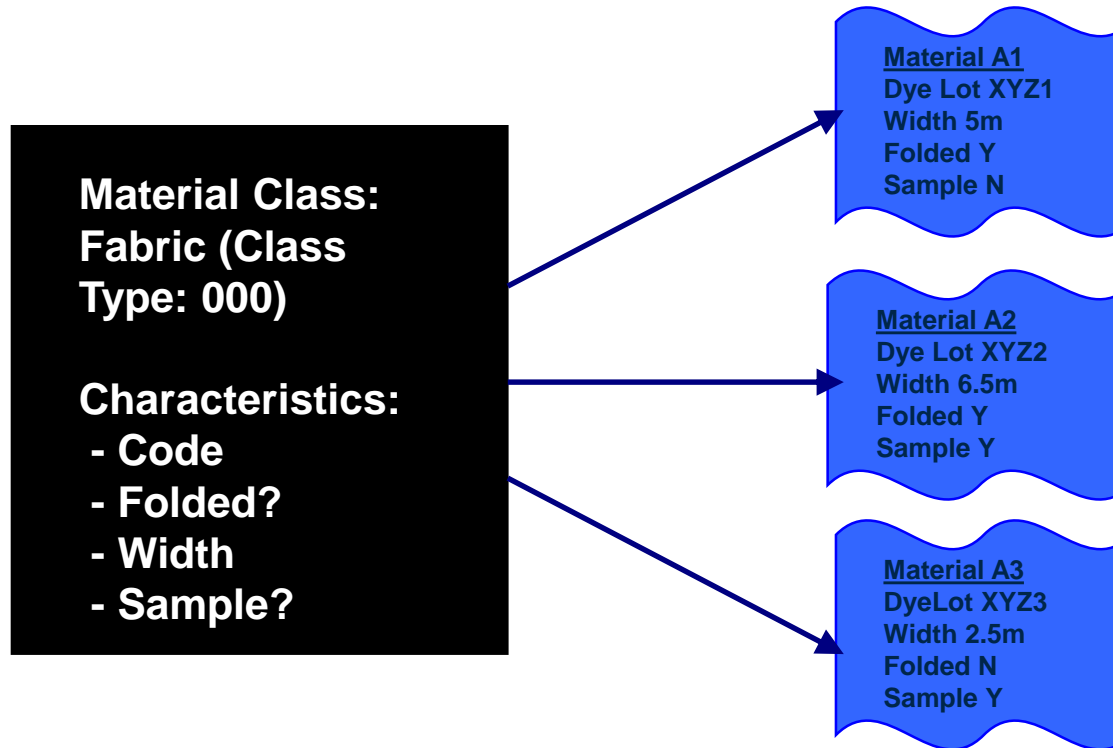
Class assignment to Material

SAP Menu → Logistics → Materials Management → Material Master → Material → Create (General) → Immediately (MM01) – Classification view

Classification

Object

Material	7000117	DEV 113
Class Type	001	Material Class

Class Type 001

Assignments

Class	Description	Sta	S.	Icon	Itm
Z_FABRIC	Fabric - raw material	☐	1	✓	10

Entry 1 / 1

Material Class

Values for Class Z_FABRIC - Object 7000117

General

Characteristic Description	Value
Dye Lot	123456
Folded Y/N	Yes
WIDTH OF FABRIC	3.00 m
Sample	No

Characteristics and values

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Assign Class to Release Strategy

Release Class:
PR_RELEASE (Class Type: 032)

Characteristics:
 - Total Value
 - Purchasing Group

Assign Class to Release Strategy

SAP Menu → Central Functions → Classification system → Master Data → Characteristics

Assign Class to Release Strategy

Class: SAP Menu → Central Functions → Classification system → Master Data → Classes

Assign Class to Release Strategy

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

New Entries: Overview of Added Entries

Rel. group	Rel.object	OverReqRel	Class
G1		☑	PURCHASE_RELEASE
G2		☑	PURCHASE_RELEASE
		☐	

Change View "Release Strategies: Classification

Object

Release group	S1	Rel. strategy	L1	$500<PR<$10K
Class Type	032			Release Strategy

Values for Class PR_RELEASE · Object S1 L1

General

Characteristic Description	Value
Total value of requisition..	500.00 - 10000.00 USD
Purchasing Group	101

Classification

1

2

3

4

5
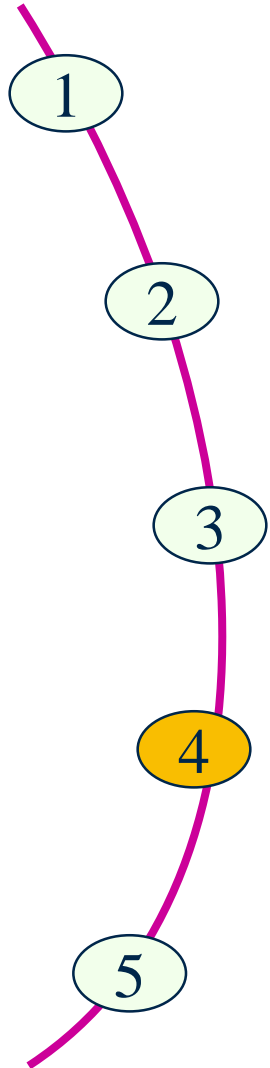
Prepare Me

Tell Me

Show Me

Let Me

Help Me

Let Me

Classification in Purchase Order Release Procedure:

XYZ Corporation manufactures Monitors and Computer accessories. It has10 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

Classification

1 — Prepare Me

2 — Tell Me

3 — Show Me

4 — Let Me

5 — Help Me

Tips
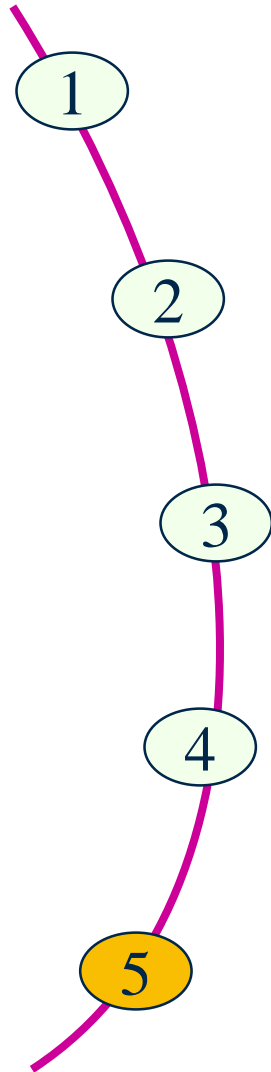
Transport Classes and Characteristics

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

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

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

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

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Classification

Q & A

Classification

THANK YOU