

**Logistics and  
Supply Chain Management  
2010**

**PLM2010**  
Product Lifecycle Management

**Manufacturing  
2010**

**Procurement and  
Materials Management  
2010**



# **Mitigating Common Logistics Mistakes that Compromise Clean Financial Postings**

**Isaac Mazliach**  
**SDM Information Systems**

## **In This Session ...**

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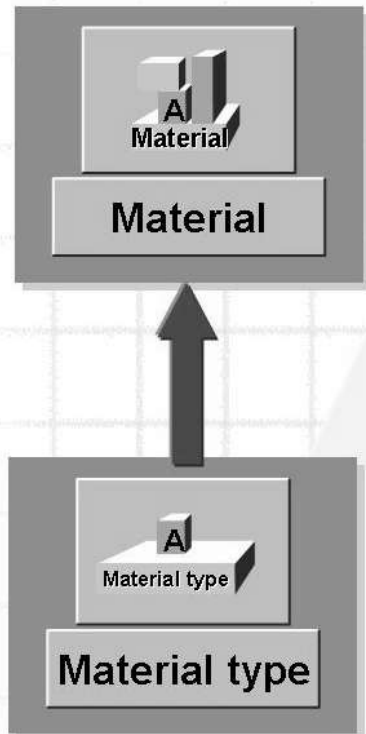
- **This session offers practical education to help you align and synchronize key logistics activities with their corresponding financial postings**
- **In this session, we will talk mainly on Automatic Accounts Assignment (AAA), i.e., how SAP “decides” which FI account will be used per specific transaction**

# What We'll Cover ...

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- **Defining the Material Master (MM) – What is it used for?**
- **Accounting data in Material Master**
- **Understanding automatic account assignment – Principles**
- **Customizing – Automatic account assignment**
- **Demo – Group accounting data parameters with valuation class**
- **Looking at split valuation – What it is and how to configure it**
- **Wrap-up**

# Control of Material Type: Material Master



Procurement type (internal / external)

Views for material maintenance

External alphanumeric number assignment without check

Type of inventory management (quantity / value)

Assignment to an account category reference

Field selection and screen sequence

Gen. indicators for price control,  
special processes, and retail

Costing control

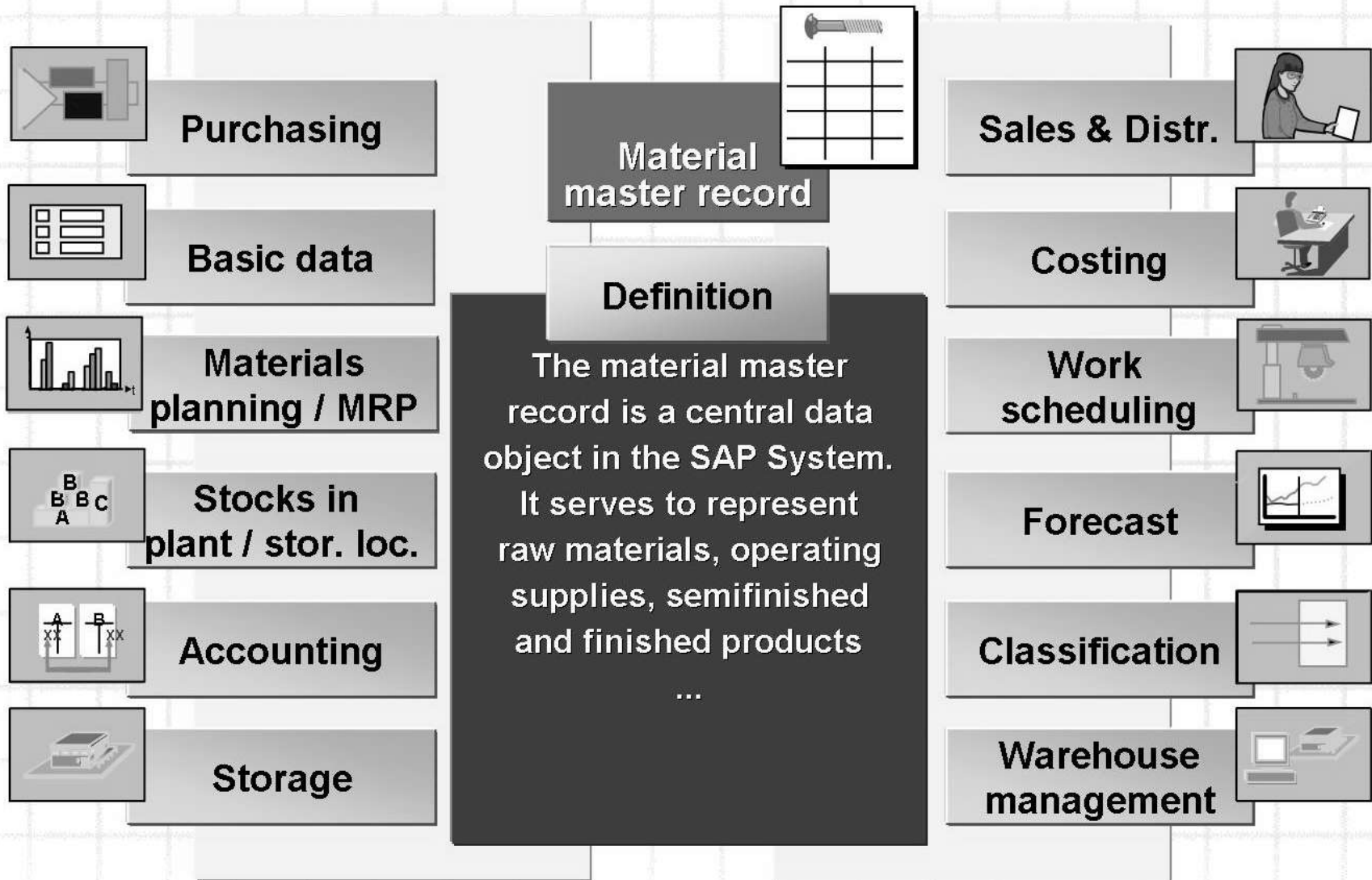
Item category group SD

Authorization group

# Control of Material Type: Material Master (cont.)

- **The user departments (maintenance status) defined for a certain material type determine which views can be maintained for a material of this type**
  - **In turn, this determines which applications can use the material**
- **Via the entries for external and internal orders, you specify how materials of a certain type can be procured**
  - **In addition, you can use special procurement keys in the material master record to restrict the procurement type for each material and plant**
- **The type of inventory management (quantity- or value-based) can be defined for a material type on a valuation area-dependent basis**
- **The material type can only be subsequently changed for a material subject to certain restrictions**
  - **Either the old and new material types must be assigned to the same account category reference or there must be no stocks, purchase orders, or reservations for this material**

# The Maintenance Statuses for Material Master Records

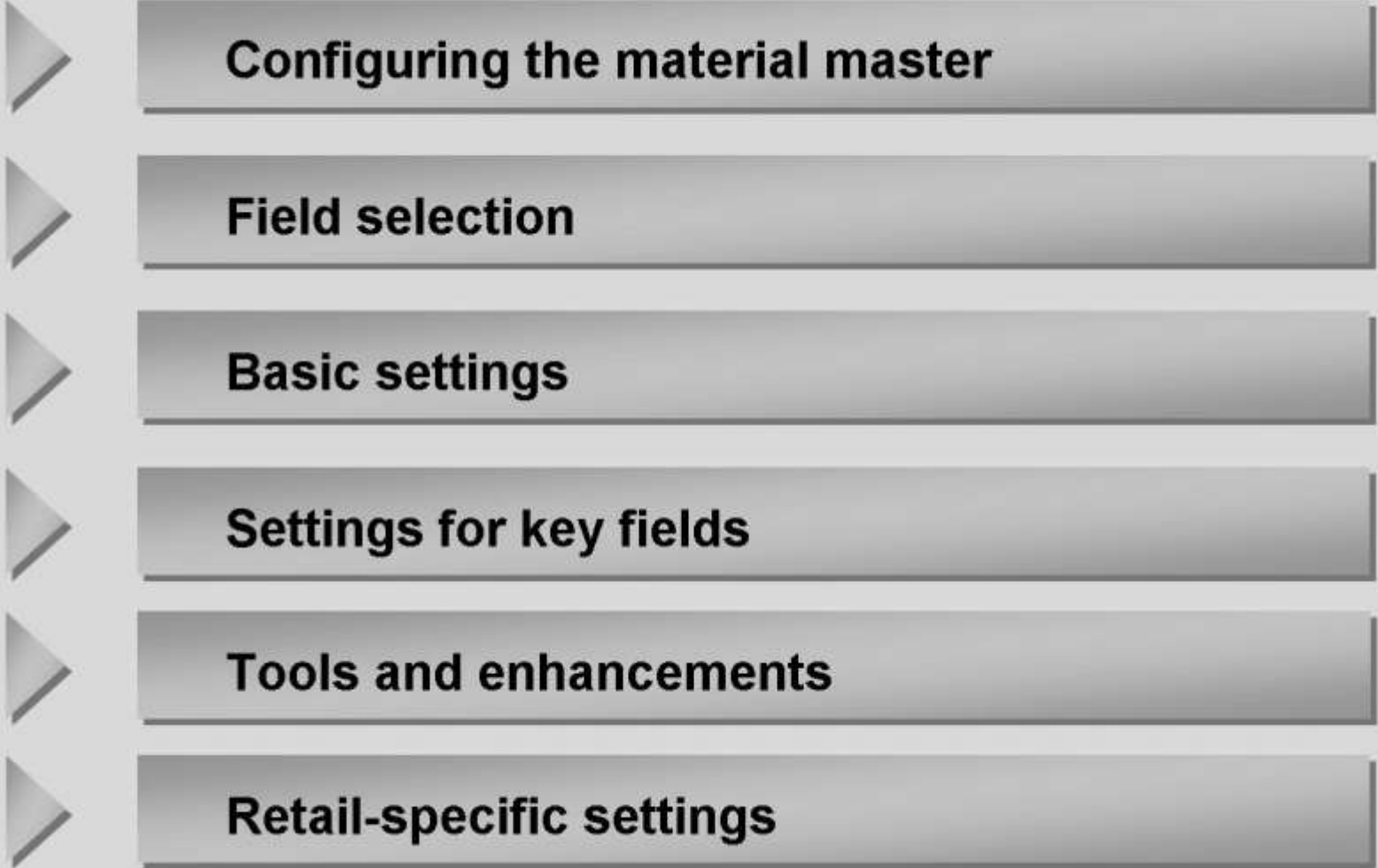


# The Maintenance Statuses for Material Master Records (cont.)

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- You can use a material in the individual Logistics functions only if the material has certain maintenance statuses
  - A valuated material that you wish to purchase for receipt into stock, for example, must have at least the maintenance statuses E (purchasing) and B (accounting)
- Each user department has its own views of a material master record

# Settings for Material Master Records



- ▶ **Configuring the material master**

- ▶ **Field selection**

- ▶ **Basic settings**

- ▶ **Settings for key fields**

- ▶ **Tools and enhancements**

- ▶ **Retail-specific settings**

# Settings for Material Master Records (cont.)

- **The Customizing activities are subdivided in the Implementation Guide as follows:**
  - You can adjust the material master dialog (screen layout, order of screens, etc.) in accordance with the specific requirements of your enterprise under **Configuring the Material Master**
  - The IMG node **Field Selection** covers all activities by means of which you can specify which material master fields are to be ready for input (mandatory or optional entry), displayed only, or suppressed
  - You can make all settings for the material types and number assignment for material master records under the IMG node **Basic Settings**

# Settings for Material Master Records (cont.)

- **Under the IMG node Settings for Key Fields, you specify the following (among other things):**
  - ♦ Which material groups and divisions you use in your company
  - ♦ Which material statuses you wish to use
  - ♦ Which storage and temperature conditions are to be adhered to in the case of certain materials
- **The IMG node Tools contains activities enabling you to:**
  - ♦ Define authorizations and authorization profiles for the maintenance of material master records
  - ♦ Organize the transfer of data for material master records
  - ♦ Specify the start times of background jobs
  - ♦ Maintain search helps
  - ♦ Reset test data
  - ♦ Initialize the periods for the individual company codes

# Settings for Material Master Records (cont.)

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- **Under the IMG node Enhancements, you will find the documentation and options for using enhancements and business add-ins to adapt**
  - **For example, the number assignment and the default values for the material master maintenance for your company**
- **A separate IMG node Retail-Specific Settings enables you, for example, to enter retail-specific settings for central fields and for material discontinuation**

# Display Material Types

Dialog Structure

- Material types
  - Quantity/value

Material type: R0H Raw material

**General data**

|   |     |  |                          |
|---|-----|--|--------------------------|
| Field reference   | R0H | X-plant matl status                                    | <input type="checkbox"/> |
| SRef: material type   | R0H | Item category group                                    | <input type="checkbox"/> |
| Authorization group   |     | <input checked="" type="checkbox"/> With Qty Structure |                          |
| <input checked="" type="checkbox"/> External no. assignment w/o check |     | <input type="checkbox"/> Initial Status                |                          |

**Special material types**

- Material is configurable
- Material f. process
- Pipeline mandatory
- Manufacturer part

**Internal/external purchase orders**

|                      |   |
|----------------------|---|
| Ext. purchase orders | 2 |
| Int. purchase orders | 0 |

**Classification**

|            |                          |
|------------|--------------------------|
| Class type | <input type="checkbox"/> |
| Class      |                          |

**User departments**

- Status description
- Work scheduling
- Accounting
- Classification
- MRP
- Purchasing
- Production resources/tools
- Costing
- Basic data
- Storage
- Forecasting

**Valuation**

|                     |  |   |
|---------------------|--|---|
| Price control       | V Moving average price/periodic unit price | <input type="checkbox"/> Price ctrl mandatory |
| Acct cat. reference | 0001                                       |   |

**Quantity/value updating**

|   |   |
|---|---|
| <b>Quantity updating</b>                                | <b>Value updating</b>                                   |
| <input checked="" type="radio"/> In all valuation areas | <input checked="" type="radio"/> In all valuation areas |
| <input type="radio"/> In no valuation area              | <input type="radio"/> In no valuation area              |
| <input type="radio"/> By valuation area                 | <input type="radio"/> By valuation area                 |

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# Accounting View

Material 983938202500 test material

Plant 200 צח שרפון בע"מ

**General data**

|                      |     |                    |                                  |
|----------------------|-----|--------------------|----------------------------------|
| Base Unit of Measure | L   | Valuation Category |                                  |
| Currency             | ILS | Current period     | 10 2009                          |
| Division             | 06  | Price determ.      | <input type="checkbox"/> ML act. |

**Current valuation**

|                     |       |                                      |        |
|---------------------|-------|--------------------------------------|--------|
| Valuation Class     | 7930  | Proj. stk                            |        |
| VC: Sales order stk |       | Price Unit                           |        |
| Price control       | 7     | Standard price                       |        |
| Moving price        | 3.61  | Total Value                          | 11,913 |
| Total Stock         | 3,300 | <input type="checkbox"/> Valuated Un |        |
| Future price        |       | Valid from                           |        |

Previous period/year    Sta

Valuation Category sets the link to split valuation (will talk about this later)

The main field is "Valuation Class" which gives the integration between FI and Logistics

# Accounting View (cont.)

Material 983938202500 test material

Plant 200 צח ישראל בע"מ

Determination of lowest value

|                  |                          |                    |                      |
|------------------|--------------------------|--------------------|----------------------|
| Tax price 1      | <input type="text"/>     | Commercial price 1 | <input type="text"/> |
| Tax price 2      | <input type="text"/>     | Commercial price 2 | <input type="text"/> |
| Tax price 3      | <input type="text"/>     | Commercial price 3 | <input type="text"/> |
| Devaluation ind. | <input type="checkbox"/> | Price unit         | <input type="text"/> |

LIFO data

LIFO/FIFO-relevant LIFO pool

Statistical prices that can be calculated either manually or through CO-PC (Product Costing)

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# Automatic Postings for GR and IR with Reference to PO

## Business process:

**1** Goods receipt for purchase order in warehouse

**2** Invoice receipt for warehouse order

## Accounting document:

| Item | PstKy | Account | Amount  |
|------|-------|---------|---------|
| 1    | 89    | 300 000 | 100.00  |
| 2    | 96    | 191 100 | 120.00- |
| 3    | 83    | 231 000 | 20.00   |

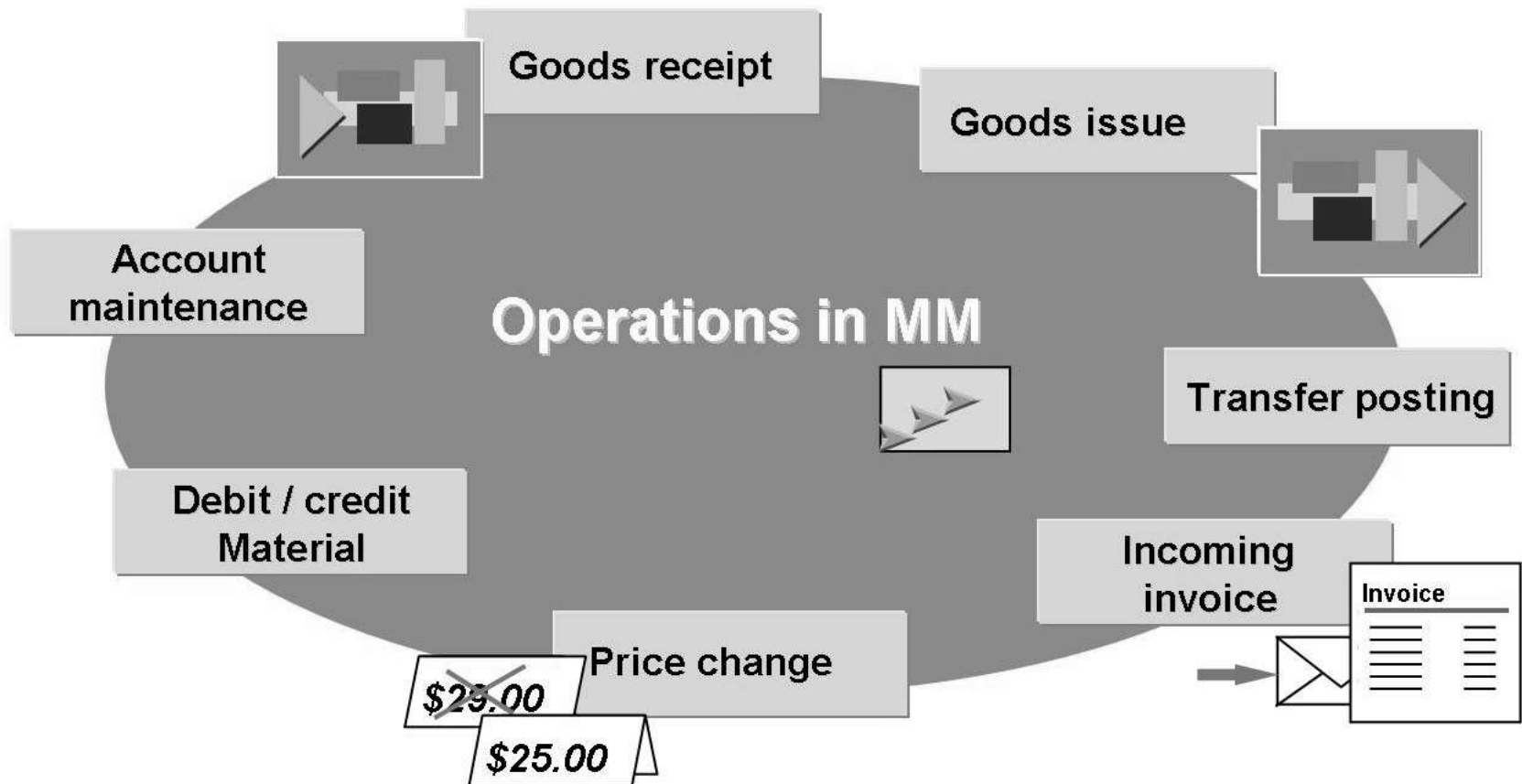
| Item | PstKy | Account | Amount    |
|------|-------|---------|-----------|
| 1    | 31    | Vendor  | 121.00-   |
| 2    | 86    | 191 100 | 120.00    |
| 3    | 93    | 281 000 | 10.00-    |
| 4    | 40    | 154 000 | 11.00 (*) |

# Automatic Postings for GR and IR with Reference to PO (cont.)

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- **A Goods Receipt (GR) into the warehouse or stores is posted**
  - The receipt of 10 pieces at an order price of 12.00 EUR/pc is posted for a material with a standard price of 10.00 EUR/pc
- **The Invoice Receipt (IR) is posted at the invoice price of 11.00 EUR/pc**
  - In the invoice, the tax rate of 10% is used for the input tax (\*)

# Automatic Account Determination in MM

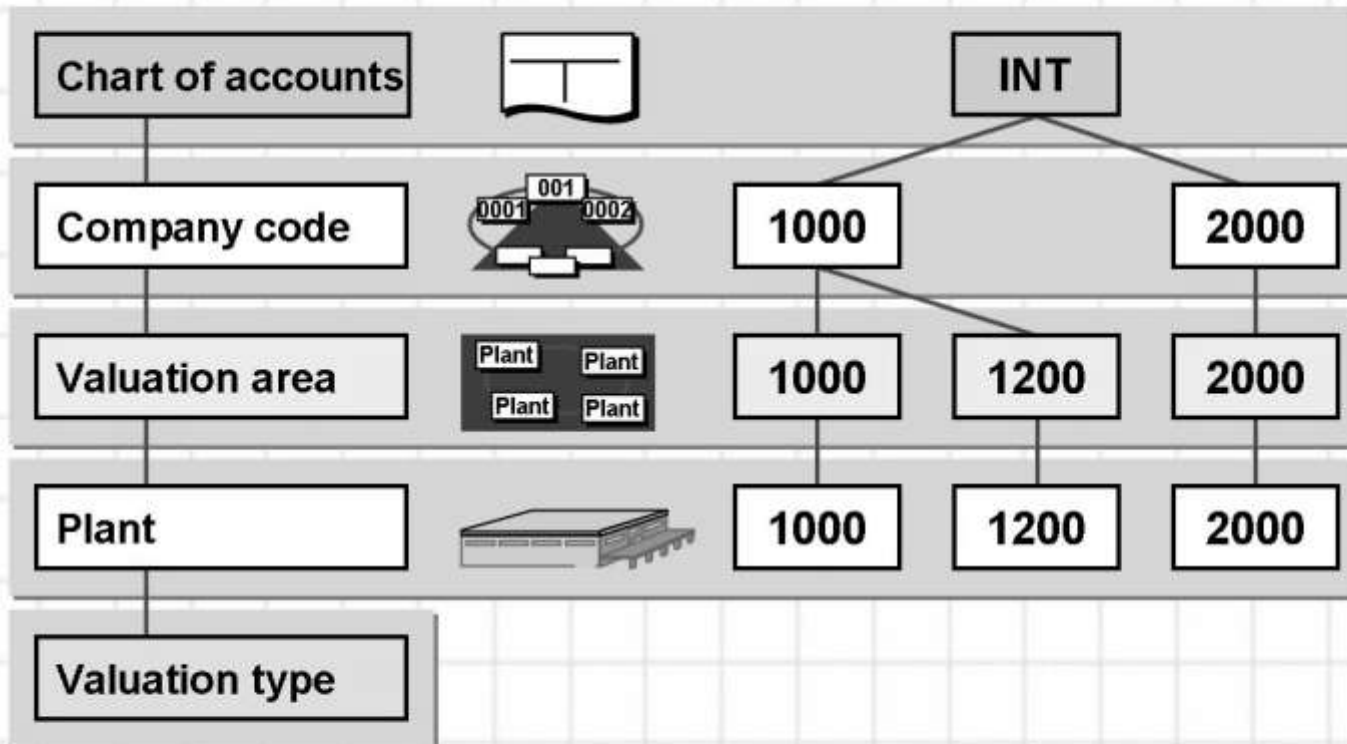


# Automatic Account Determination in MM (cont.)

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- **The Materials Management transactions for which automatic postings can be set up occur in the following areas:**
  - ◆ **Inventory management**
  - ◆ **Invoice verification**
  - ◆ **Material valuation**
- **They include goods movements triggered by transactions or events in Production Planning (PP) or Sales and Distribution (SD)**

# Valuation and Account Determination Levels in MM



# Valuation and Account Determination Levels in MM (cont.)

- **The assignment of G/L account numbers (account determination) always depends on the chart of accounts**
  - You assign the chart of accounts to a company code in Customizing for FI
- **When the MM business processes are entered, the valuation area (plant or company code) is known in each case**
  - In Customizing, you can choose whether the valuation area is to be the same as the company code or the same as the plant
    - ▶ **This setting must be made before materials are created and before the MM inventory management transactions are entered**
  - G/L account number assignment can be defined as a function of the valuation area

# Overview of the Assignment of G/L Account Numbers for Automatic Account Determination

Depending on the different influencing factors (the assigned chart of accounts, the business transaction, the plant in which the transaction is posted, and possibly the material itself), the program determines which G/L account postings have to be made.

For every possible combination of the factors of influence (chart of accounts, business transaction, plant, and possibly the material itself), a G / L account must be assigned for DEBIT and CREDIT postings.

| Client | CAcct | Transaction | VG   | AG  | VClass | G/L acc. DEBIT | G/L acc. CREDIT |
|--------|-------|-------------|------|-----|--------|----------------|-----------------|
| 400    | INT   | BSX         | 0001 | --- | 3000   | 300 000        | 300 000         |
| 400    | INT   | WRX         | ---  | --- | ---    | 191 100        | 191 100         |
| 400    | INT   | PRD         | ---  | PRA | 3000   | 231 000        | 281 000         |
| 400    | INT   | GBB         | 0001 | VBR | 3000   | 400 000        | 400 000         |

# Overview of the Assignment of G/L Account Numbers for Automatic Account Determination (cont.)

- The abbreviations have the following meanings:
  - ◆ Client = Client
  - ◆ CAcct = Chart of accounts
  - ◆ VG = Valuation grouping code
  - ◆ AG = Account grouping code (*gen. acct. modif. code/modifier*)
  - ◆ VClass = Valuation class
- The Implementation Guide documentation contains an exact description of the automatic account determination process: *IMG*  
→ *Materials Management* → *Valuation and Account Assignment*  
→ *Account Determination* → *Account Determination Without Wizard* → *Configure Automatic Postings*



Note

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# Grouping of Valuation Areas

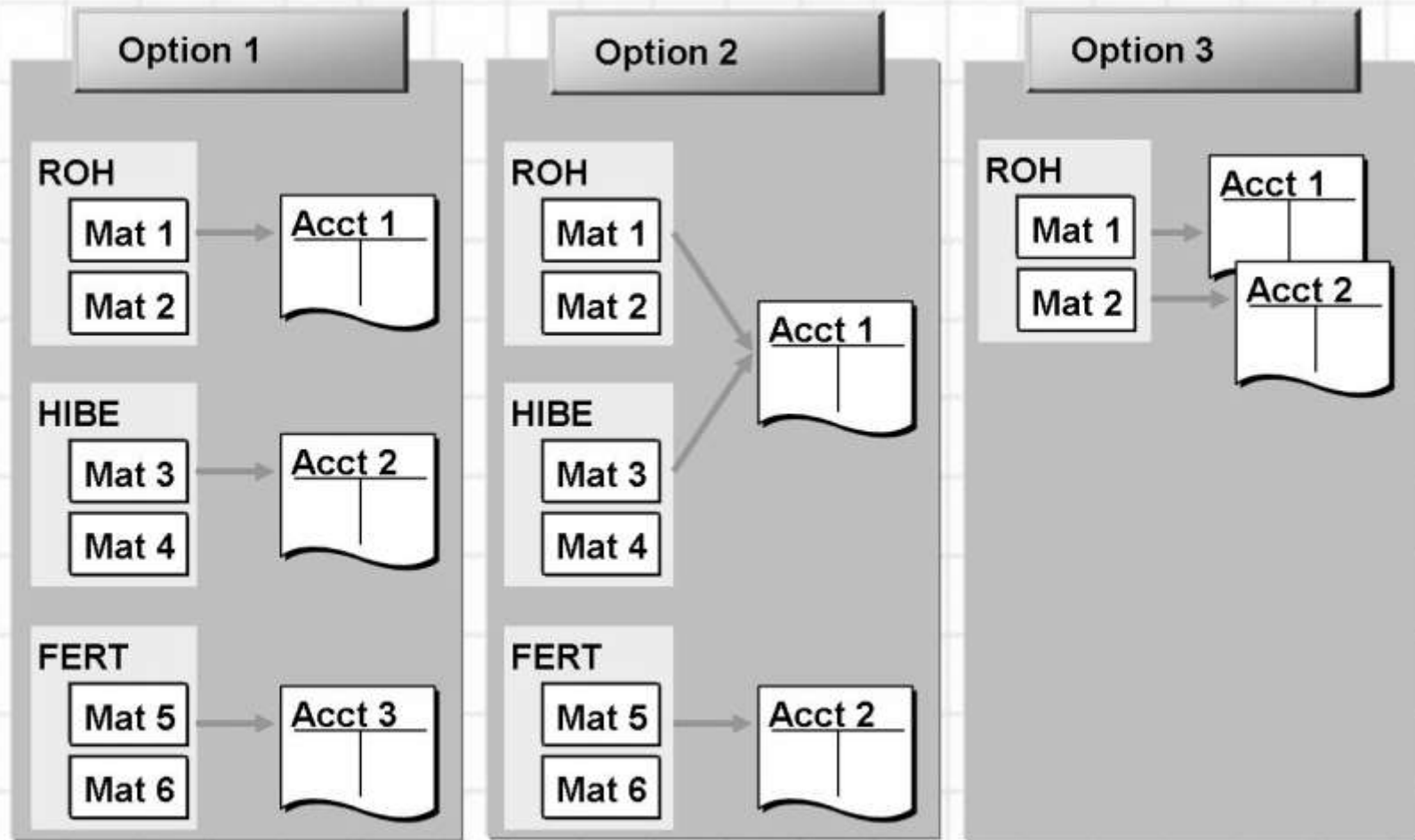
| Val. area | CoCode | Company Name | Chrt/Accts | Val.Grpg Code |
|-----------|--------|--------------|------------|---------------|
| 1000      | 1000   | IDES AG      | INT        | 0001          |
| 1100      | 1000   | IDES AG      | INT        | 0001          |
| 1200      | 1000   | IDES AG      | INT        | 0001          |
| 1300      | 1000   | IDES AG      | INT        | 0001          |
| 1400      | 1000   | IDES AG      | INT        | 0001          |
| 2000      | 2000   | IDES UK      | INT        | 0001          |
| 2010      | 2000   | IDES UK      | INT        | 0001          |
| 2200      | 2200   | IDES France  | CAFR       | FR01          |
| 3000      | 3000   | IDES US INC  | CAUS       | US01          |
| 3100      | 3000   | IDES US INC  | CAUS       | US01          |
| 3200      | 3000   | IDES US INC  | CAUS       | US01          |
| 3300      | 3000   | IDES US INC  | CAUS       | US01          |
| 3400      | 3000   | IDES US INC  | CAUS       | US01          |
| 3500      | 3000   | IDES US INC  | CAUS       | US01          |

## Grouping of Valuation Areas (cont.)

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- **Company codes 1000 and 2000 use the same chart of accounts INT.**
- **Account determination is uniform for plants 1000, 1100, and so on of company code 1000 and for plants 2000 and 2010 of company code 2000**

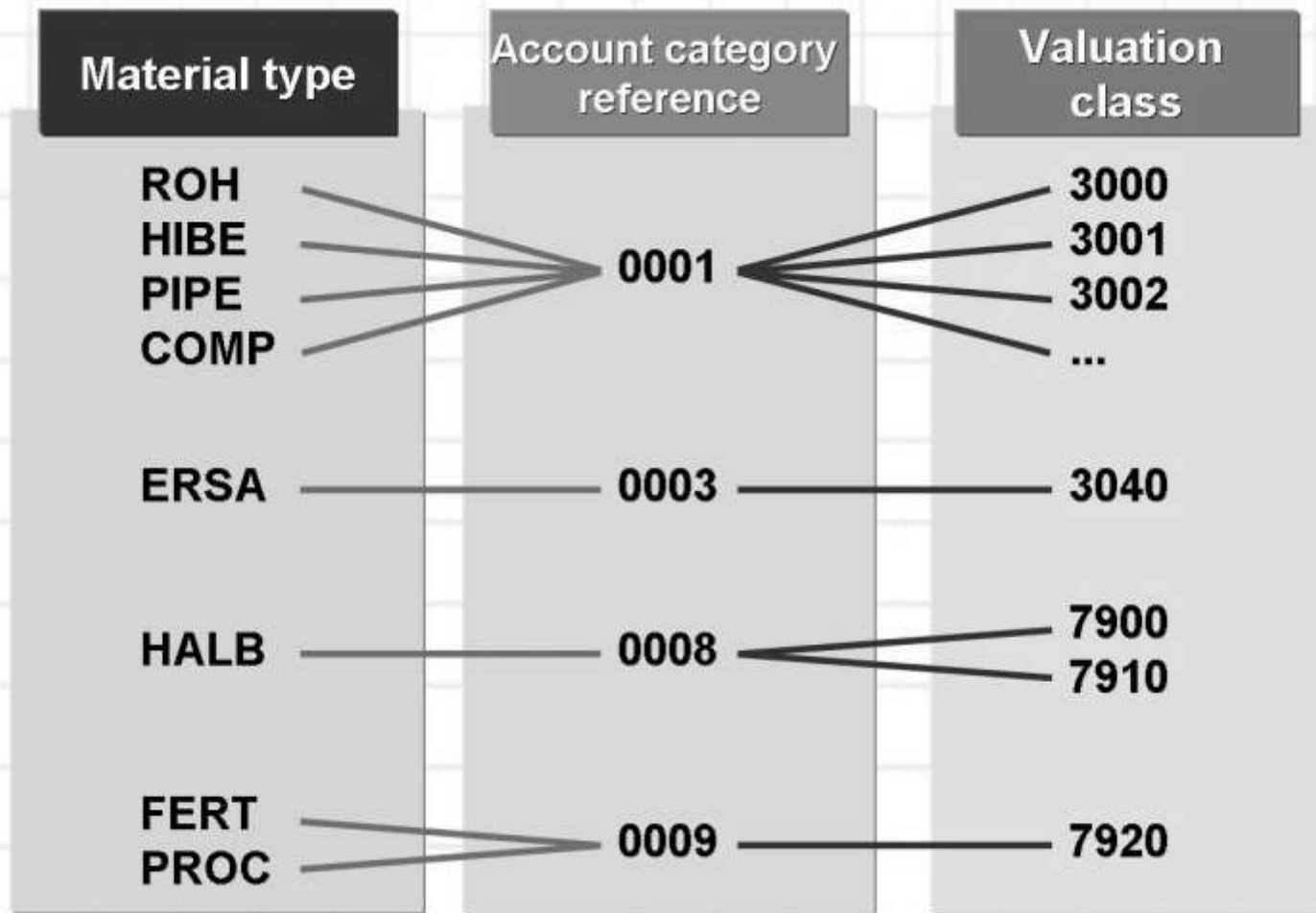
# Grouping of Materials



# Grouping of Materials (cont.)

- **You can define automatic account determination on a material-dependent basis**
  - ♦ This would enable you to post the receipt of a raw material to a different stock account than that of a trading good, for example
  - ♦ However, your company may wish to have different stock accounts for different materials depending only on the procurement type (manufactured in-house or procured externally)
  - ♦ You can set up uniform G/L account determination for all materials of a certain type or even for several material types
- **You can also specify that different G/L accounts are to be determined for different materials of a certain material type**
- **You can also combine options 2 and 3, that is:**
  - ♦ Group several material types
  - ♦ Define different G/L accounts for different materials within this group

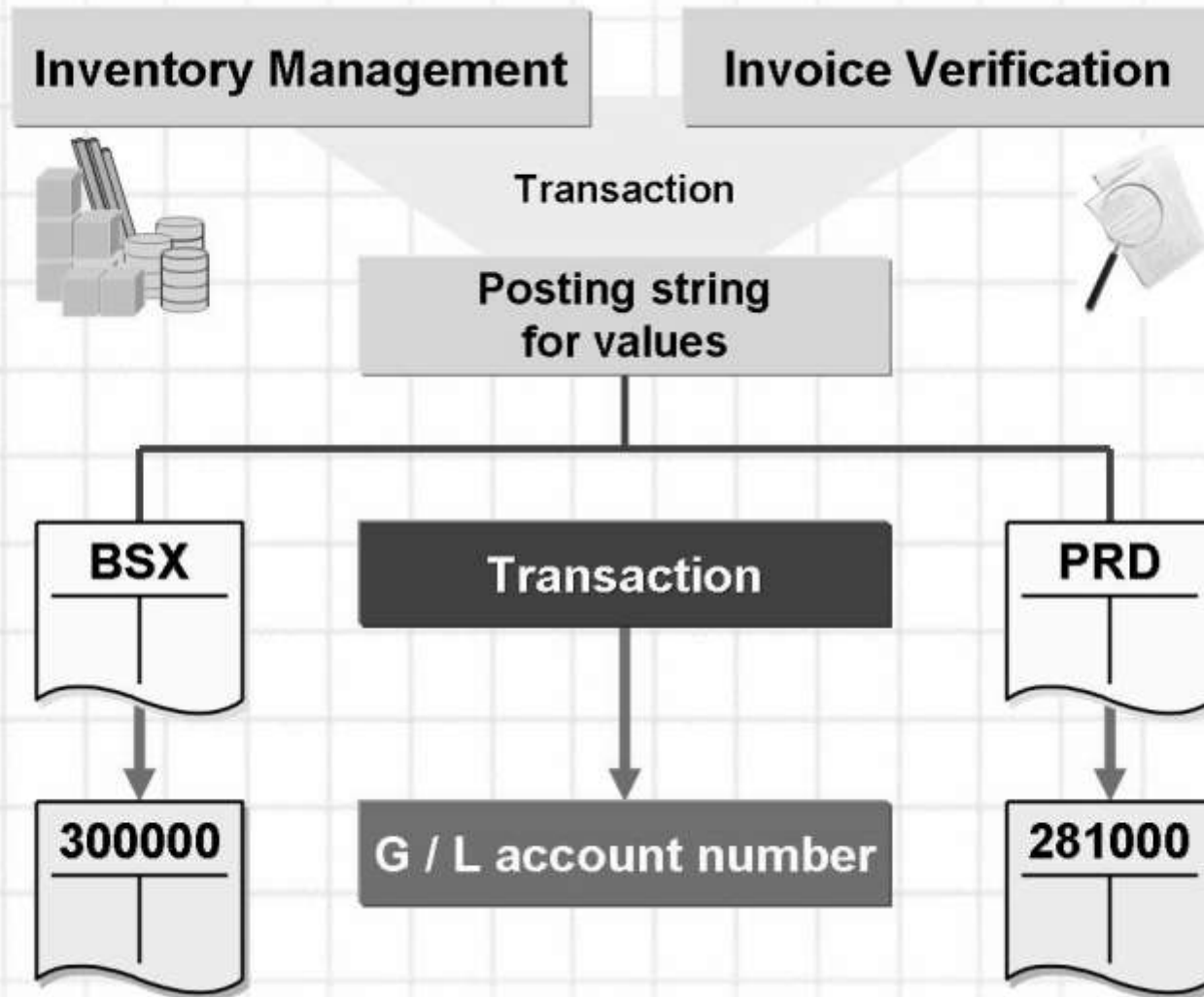
# Material Type and Valuation Class



# Material Type and Valuation Class (cont.)

- **The account category reference is the grouping term for account determination depending on the material type**
- **Several valuation classes can be assigned to an account category reference**
- **Each material type for which quantity- and value-based inventory management has been defined is assigned to an account category reference (mandatory)**
- **When maintaining the accounting data for a material of this material type, you can choose one of the valuation classes that have been defined for the relevant account category reference**
  - **G/L account determination for this material is then carried out according to the settings for this valuation class**

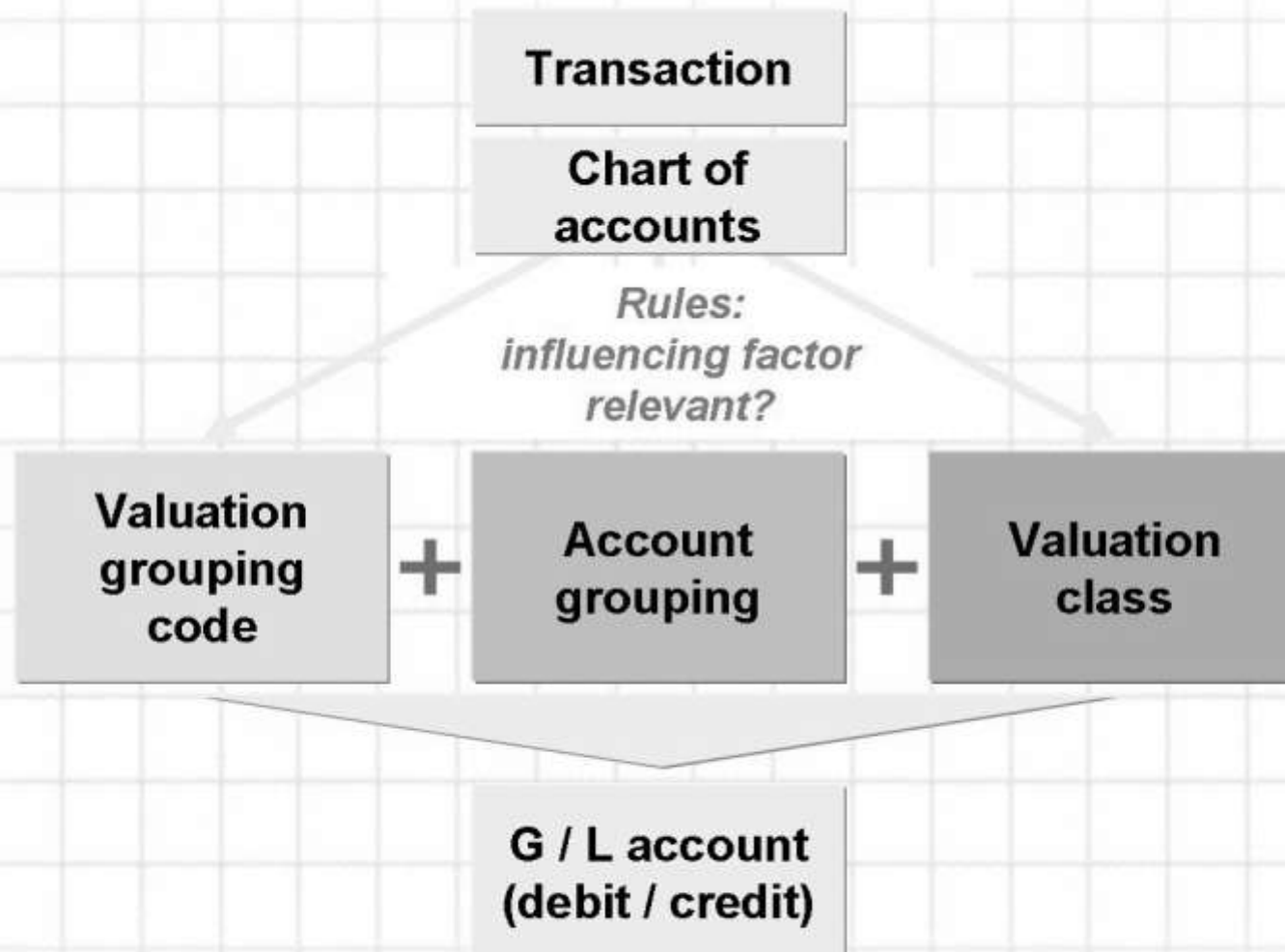
# Account Determination Process in MM



# Account Determination Process in MM (cont.)

- **Posting records generalized in a value string (posting rule) are assigned to each relevant movement type in inventory management and each transaction in invoice verification**
  - **Instead of specific G/L account numbers, this value string contains keys for the relevant posting transactions (for example, BSX for a stock posting and PRD for a price difference posting)**
- **You do not have to define these transaction/event keys**
  - **They are determined automatically in the SAP system from the specific transaction in invoice verification or from the transaction and movement type in inventory management**
  - **You need only to assign the G/L account to which postings are to be made to each posting transaction (taking into account the other influencing factors)**

# Assignment of G/L Account Number

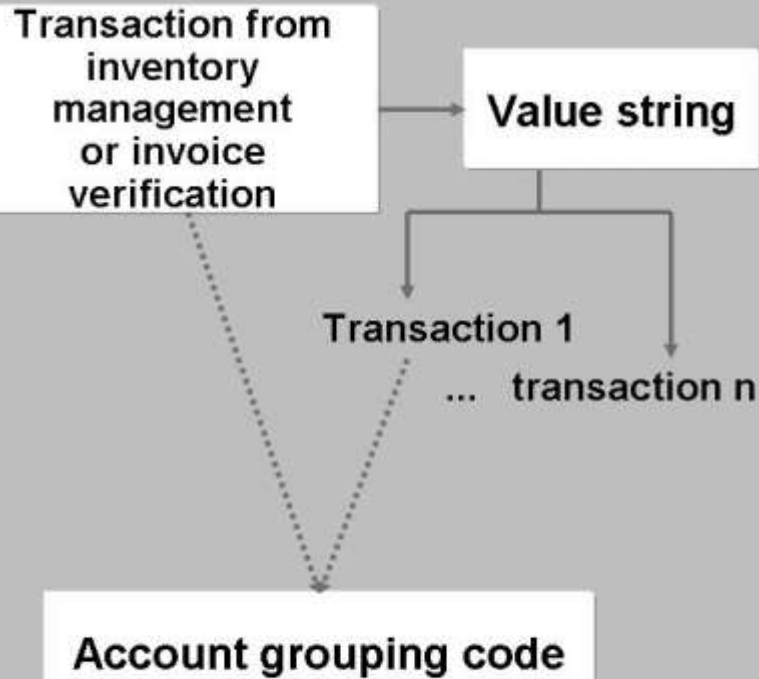


# Assignment of G/L Account Number (cont.)

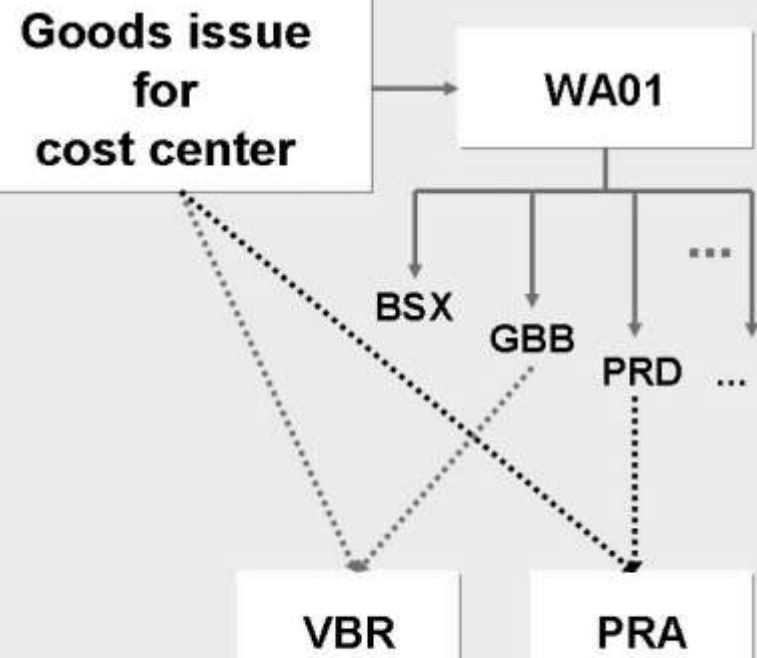
- **Using rules, you can specify whether the assignment of the G/L accounts for a transaction involving automatic account determination depends on:**
  - ♦ **The valuation grouping code**
  - ♦ **The account grouping code (not possible for every posting key)**
  - ♦ **The valuation class**
- **By means of a further indicator, you specify for each posting transaction whether different G/L accounts are to be assigned for the debit posting and the credit posting (not possible for stock accounts)**

# Transaction/Event Key and Account Grouping Code

## Principle



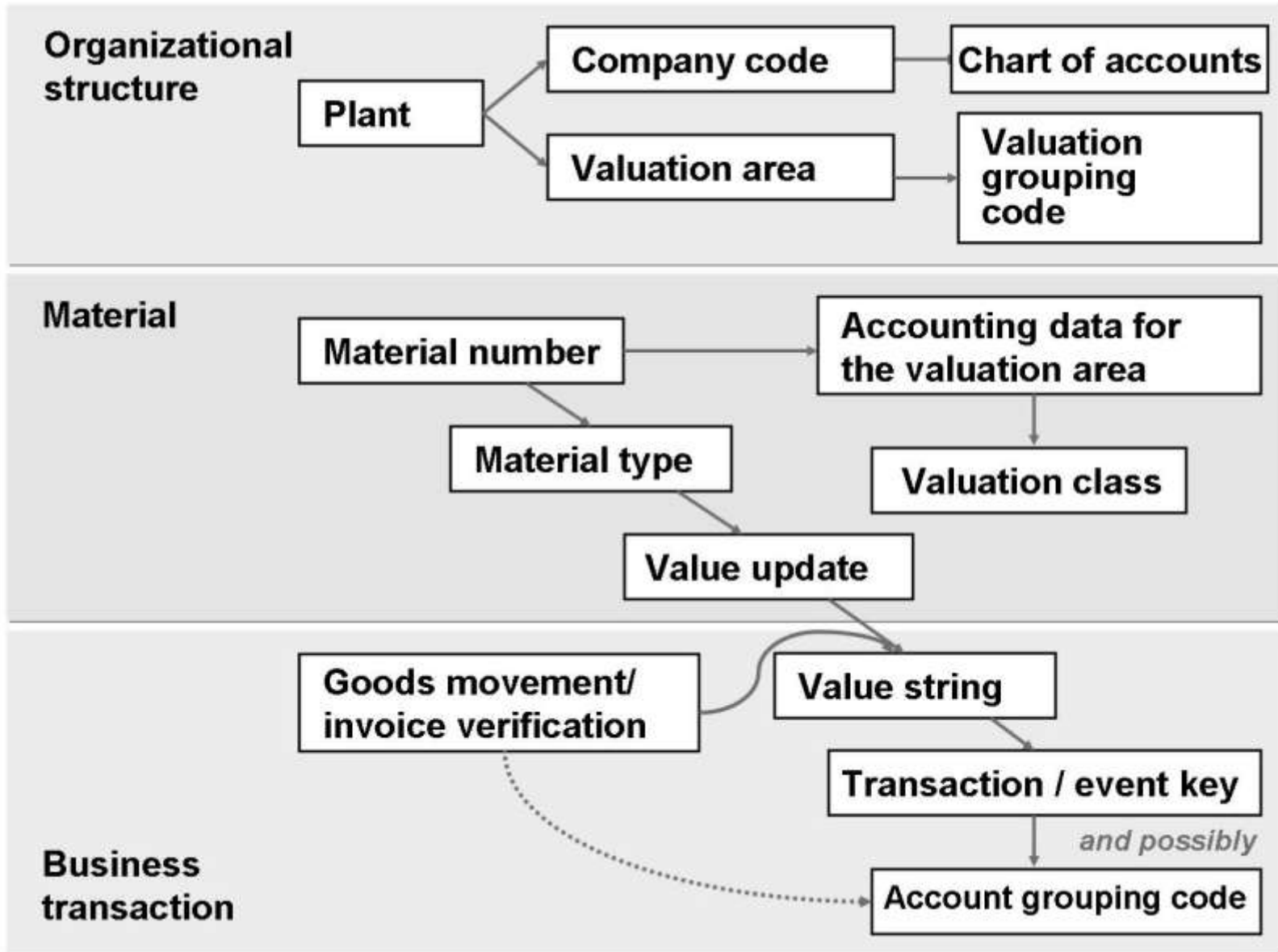
## Example



# Transaction/Event Key and Account Grouping Code (cont.)

- **The value strings contain keys for the posting transactions that can lead to G/L account updates in the case of an FI-relevant posting**
  - **These value strings are predefined by SAP**
  - **You cannot change value strings or the transactions they comprise in Customizing**
- **For each of these posting transactions, you can set up automatic postings dependent on the other influencing factors**
  - **Certain posting transactions can be differentiated on a transaction-specific basis by the use of an account grouping code**
- **In the case of inventory management transactions, the account grouping (or modification) code can be changed dependent on the movement type and other indicators (such as the special stock indicator)**
- **The account grouping code cannot be changed in the case of invoice verification transactions**

# Summary of Influencing Factors

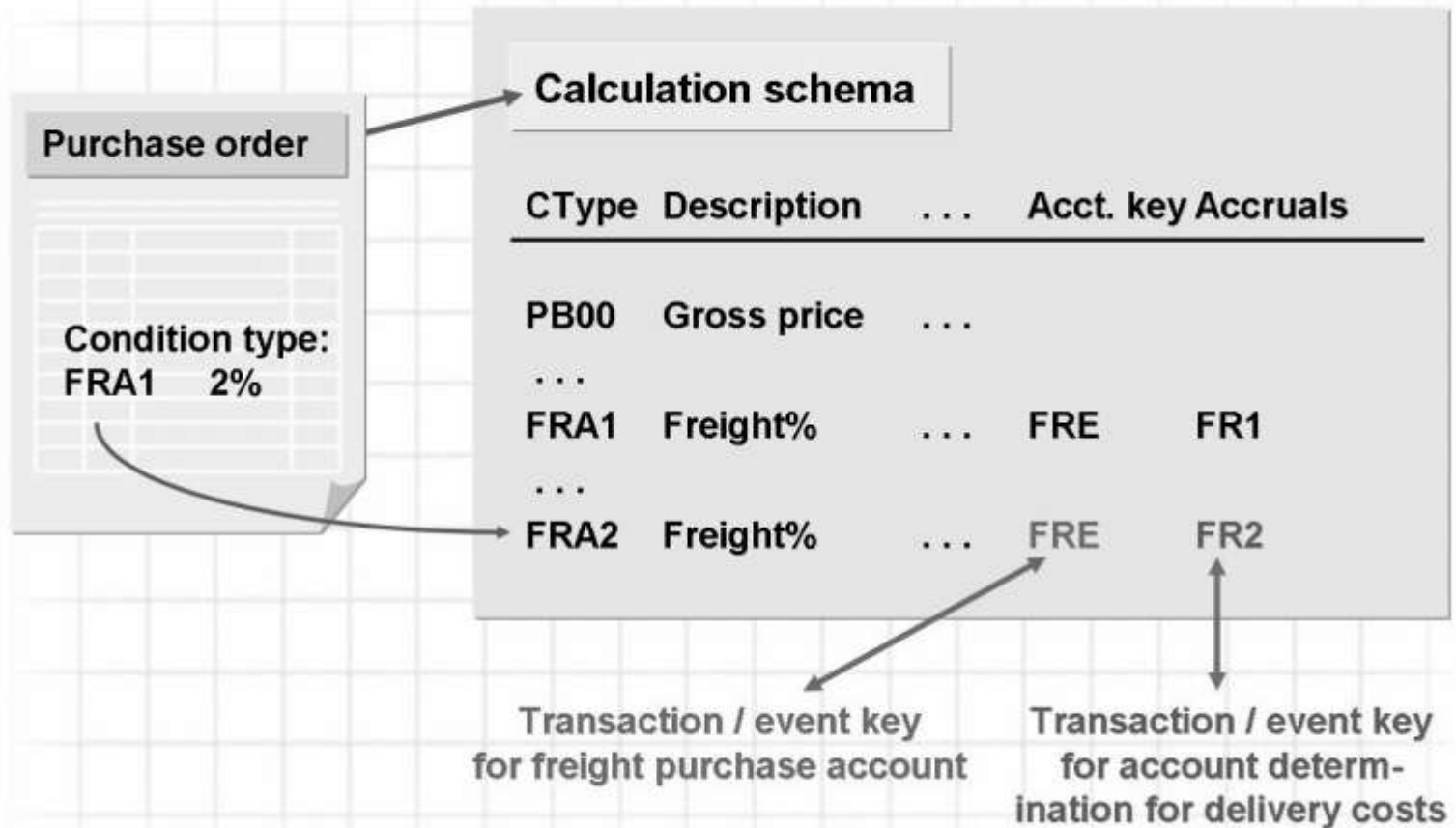


# Summary of Influencing Factors (cont.)

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- **The system parameters (influencing factors) you have to take into account when setting up automatic account determination are as follows:**
  - ♦ **Chart of accounts of the company code**
  - ♦ **Valuation grouping code of the plant or company code**
  - ♦ **Valuation class of the material**
  - ♦ **Transaction/event key from the value string, possibly with account grouping code**
- **You can assign the G/L accounts for your business processes in dependence on these parameters**

# Determination of Accounts for Delivery Costs



# Determination of Accounts for Delivery Costs (cont.)

- **The transaction/event keys (account keys) for delivery cost postings come not from the value string but from the calculation schema for purchasing**
  - **If required, you can define further account keys for new condition types in Customizing for price determination and use them for additional clearing or provision accounts**
- **The following excerpt from the SAP system Customizing shows you details of the calculation schema for purchasing**

# Account Key in Purchasing

Change View "Control data": Overview of Selected Set

New Entries

Procedure  Purchasing Document (Big)

Control data

| Step | Cntr | CType | Description          | Fro | To | Man.                                | Mdt                      | Stat                                | P. | SubTo | Reqt | AltCTy | AltCBV | ActKy | AccrIs |
|------|------|-------|----------------------|-----|----|-------------------------------------|--------------------------|-------------------------------------|----|-------|------|--------|--------|-------|--------|
| 1    | 1    | PB00  | Gross Price          |     |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  | 9     |      |        |        |       |        |
| 1    | 2    | PBXX  | Gross Price          |     |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  | 9     | 6    |        |        |       |        |
| 2    | 0    | VA00  | Variants/Quantity    |     |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 3    | 0    | VA01  | Variants %           |     |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 1    | RB00  | Discount (Value)     |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 2    | RC00  | Discount/Quantity    |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 3    | RA00  | Discount % on Net    |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 5    | HB00  | Header Surch.(Value) |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 6    | ZB00  | Surcharge (Value)    |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 7    | ZC00  | Surcharge/Quantity   |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 8    | ZA00  | Surcharge % on Net   |     |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 11   | RL01  | Vendor Discount %    | 1   |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 10   | 13   | RGR0  | Group Discount %     | 1   |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  |       |      |        |        |       |        |
| 20   | 0    |       | Net incl. disc.      |     |    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | X  | 7     |      |        |        |       |        |
| 31   | 1    | FRA1  | Freight %            | 20  |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |       |      |        |        | FRE   | FR1    |
| 31   | 10   | FRA2  | Freight %            | 20  |    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |       |      |        |        | FRE   | FR2    |
| 40   | 0    |       | Actual Price         | 22  | 39 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |    | S     |      |        |        |       |        |

# Account Key in Purchasing (cont.)

- **The previous illustration only contains a few selected condition types of the standard calculation schema**
  - ♦ **Before you can assign new provision keys for posting the planned delivery costs, you first have to define them in a separate Customizing activity**
- **Choose: IMG → Materials Management → Purchasing → Conditions → Define Price Determination → Define Transaction/Event Keys**

# Default Account in Purchasing

| Item overview |   |   |          |          |
|---------------|---|---|----------|----------|
| Item          | I | A | Material | Quantity |
| ....          |   |   | .....    | .....    |
| ....          |   | K | .....    | .....    |
| ....          |   | X | .....    | .....    |
| ....          |   |   | .....    | .....    |

**Account assignment: item m**

G / L account

...

Cost center

**Account assignment: item n**

G / L account

...

Cost center

An account can be suggested depending on the account assignment category.

This account is determined via the account grouping code of the account assignment category.

## Default Account in Purchasing (cont.)

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- In the case of items with account assignment with a material master record, the valuation class from the accounting view is used
- In the case of items with account assignment without a material master record, the valuation class of the material group or the valuation class ' ' is used

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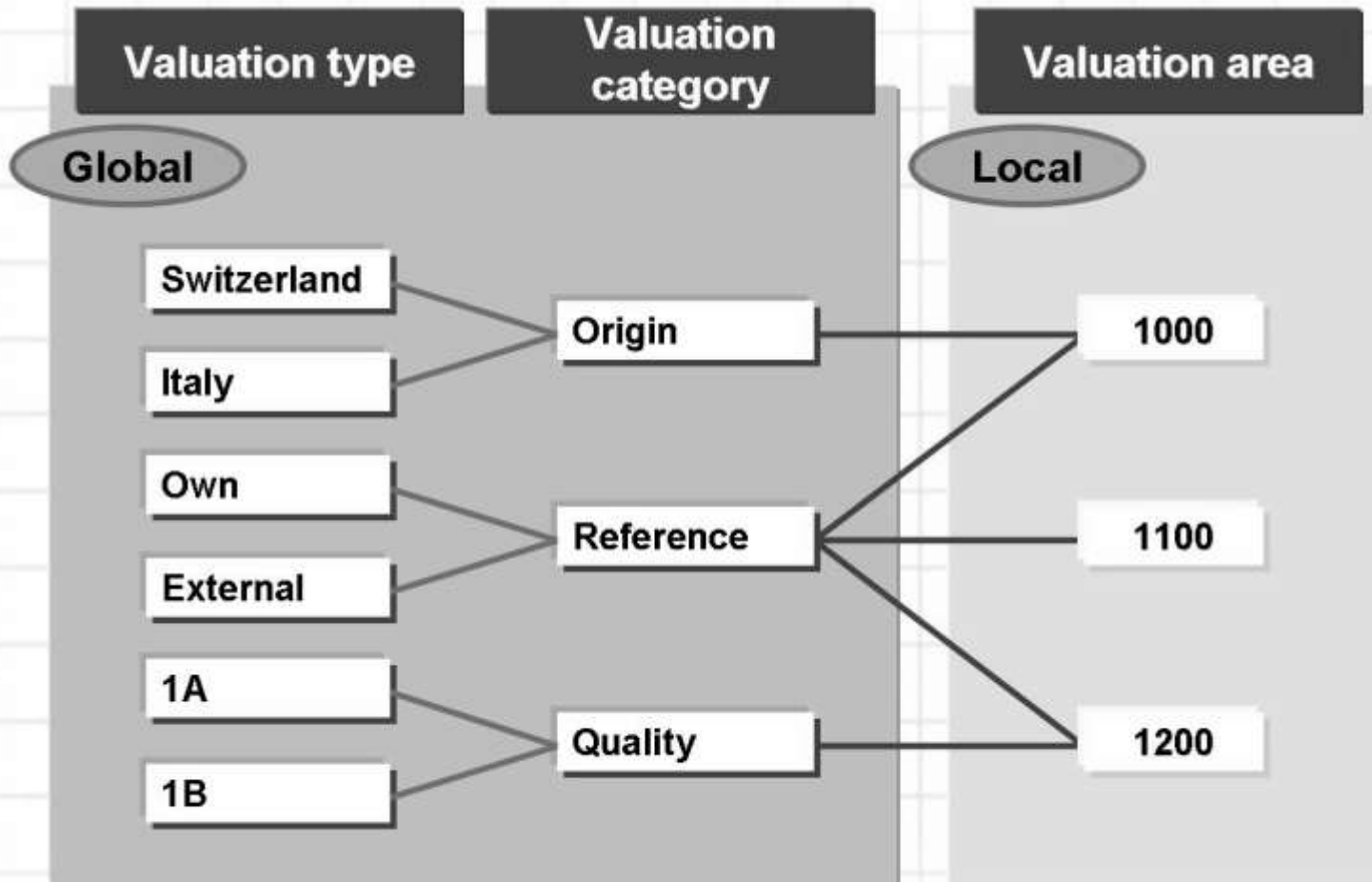


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- **Customizing – Automatic account assignment**
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- **Looking at split valuation – What it is and how to configure it**
- **Wrap-up**

# Split Valuation



# Split Valuation (cont.)

- **Only if split valuation is active can different stocks of the same material be valued separately**
  - If you wish to have split valuation for a material, you enter a valuation category in the accounting data for the material
  - This stipulates which valuation types can be specified
  - A valuation type characterizes one of the possible partial stocks for a certain valuation category
- **You can specify default valuation types for every valuation category for the transactions in Purchasing and PP**
  - These have an influence on the valuation type to be entered in a purchase order, for example

# Settings for Split Valuation

## Global types

- ✓ External orders permitted?
- ✓ Internal orders permitted?
- ✓ Define account category reference

## Global categories

- ✓ (Binding) default MTy for internal and external procurement
- ✓ “Determine movement type automatically” indicator
- ✓ Assign types to categories (activate)

## Local definitions

- ✓ Assign categories to the organizational units
- ✓ Change categories and types locally

# What We'll Cover ...

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- **Defining the Material Master (MM) – What is it used for?**
- **Accounting data in Material Master**
- **Understanding automatic account assignment – Principles**
- **Customizing – Automatic account assignment**
- **Demo – Group accounting data parameters with valuation class**
- **Looking at split valuation – What it is and how to configure it**
- **Wrap-up**

# Resources

- [http://help.sap.com/bp\\_bl603/BBLibrary/HTML/129\\_EN\\_US.htm](http://help.sap.com/bp_bl603/BBLibrary/HTML/129_EN_US.htm)
  - **SAP Best Practices on Consumables Purchasing**
- **SAP Standard Course SCM550 — Cross Functional Customizing in Materials Management”**
  - [www.sap.com/services/education/catalog/globaltabbedcourse.epx?context=%5B%5B%7CSCM550%7C%7C%7C033%7CG%7C%5D%5D%7C](http://www.sap.com/services/education/catalog/globaltabbedcourse.epx?context=%5B%5B%7CSCM550%7C%7C%7C033%7CG%7C%5D%5D%7C)
- **Material Master (LO-MD-MM)**
  - [http://help.sap.com/saphelp\\_erp60\\_sp/helpdata/en/ff/516a6749d811d182b80000e829fbfe/frameset.htm](http://help.sap.com/saphelp_erp60_sp/helpdata/en/ff/516a6749d811d182b80000e829fbfe/frameset.htm)

# 7 Key Points to Take Home

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- **Automatic account determination is a key integration between FI and the Logistics modules**
- **The customizing options are enormous – You can configure almost everything you desire**
- **The main parameter is the “valuation class”**
- **Valuation class may be inserted in the Material Master (master data) and in the Material Group (Customizing)**
- **Freight costs parameters must be inserted in the Pricing calculation schema of the Purchase Order**
- **Split valuation may allow more than a single price for the same material (e.g., by country of origin)**
- **Do not forget testing and more testing**

# Your Turn!



**Questions?**

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# Disclaimer

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