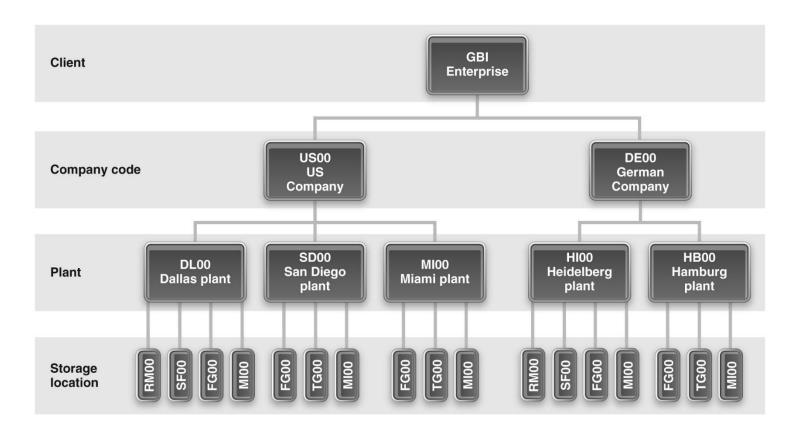
SAP MATERIAL MANAGEMENT

Organizational Data

- Client
- Company code (CC)
- Plant
- Storage location (S Loc)
- Purchasing organization (P Org)
- Purchasing group

GBI Storage Locations



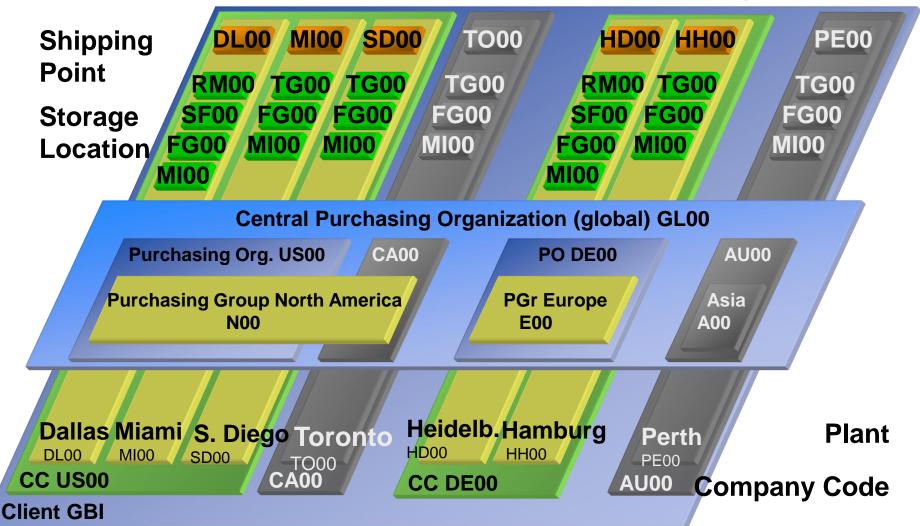
Purchasing Organization

- Identify and select vendors
- Negotiate general conditions of purchase and contracts for one or more plants or companies.
- Determine pricing conditions
- Typically three models for Purchasing Organization
 - Enterprise-Level
 - Company-Level
 - Plant-Level

Purchasing Group

- A buyer or group of buyers responsible for certain materials or groups of materials
- Can be internal to the company or external
 - Decide to purchase land, but use a realtor (external purchasing group) to execute the purchase
- Not assigned to or related to purchasing org

GBI Enterprise Structure in SAP ERP (Logistics)



Vendor Master

- Data needed to do business with vendors
- Data needed to execute transactions related to vendors (along with org data)
- Data are specific to (defined for) different organizational levels. The three segments are:
 - Client level data (General)
 - Company code level data (Accounting)
 - Purchasing organization level data (Purchasing)

Vendor – General Data

- Client-level data
- Valid across all CC in a client
- Examples
 - Name
 - Address
 - Communication (phone, fax)
 - Search term

Vendor – Accounting Data

- Company code specific data
- Valid for the entire company code across purchasing areas
- Examples
 - Account information
 - Bank information
 - Reconciliation account
 - Payment terms and methods
 - Communication (dunning)

Vendor – Purchasing Data

- Separate for each Purchasing Organization
- Applies to the specified Purchase Org
- Examples
 - Partner functions (vendor, invoicing party, payment recipient)
 - InCoTerms: defines responsibilities and costs of shipment
 - Freight, insurance, customs clearance, locations

Material Master

- Data needed to execute transactions related to materials (along with org data)
- Data are grouped by different user areas (views)
- Data are specific to (defined for) for different organizational levels

Material Master – Views

- Basic data
- Purchasing
- Accounting
- Forecasting
- Sales

- Plant / Storage
- Work Scheduling
- MRP
- Classification
- Warehouse Management

Material Master – Views

Basic data

Description, unit of measure, weight, material group

Purchasing

Purchasing group, GR processing time, delivery (under / over) tolerances

Accounting

 Currency, valuation class (link to G/L), price control (moving price, standard price, future price)

Plant / Storage

- Storage requirements (hazard, temperature, etc.)
- Shelf life
- Weight, volume

Material Master - Views

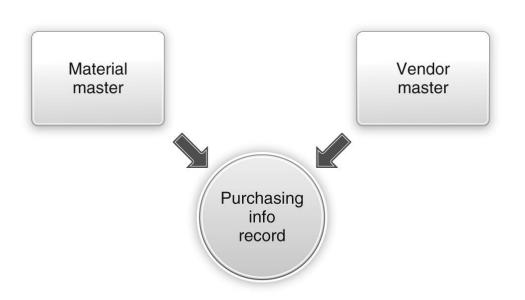
- Views for other processes
 - Forecasting (Material Planning process)
 - Sales (Fulfillment process)
 - Work Scheduling (Production process)
 - MRP (Production process)
 - Classification (PLM process)
 - Warehouse Management (WM process)

Material Master - Views

- Different material types have different required views
- Examples:
 - Raw material: no sales view
 - Finished Goods: no purchasing view
 - Trading goods: no production related views

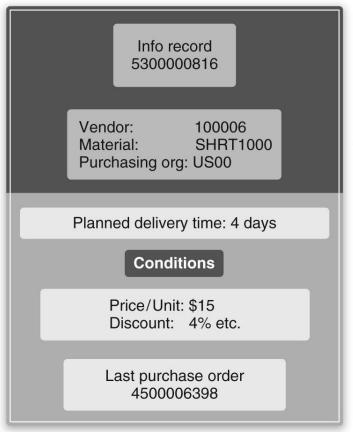
Purchasing Info Record

- Relates vendors and materials.
- One info record per combination of vendor and material (or material group)
 - General data
 - Conditions: pricing, discounts, free goods (current and future)
 - Vendor data
 - Texts (notes)



Purchasing Info Record

Spy Gear Vendor 100006





Material SHRT1000

Purchasing Info Record

- Allows buyers to quickly determine:
 - Which vendors have offered or supplied specific materials
- Serves as default information for Purchase Orders

Stock Types / Status

- Based on usability of material
 - Unrestricted use
 - In quality inspection
 - Blocked stock (damaged, unusable; wrong delivery)
 - Stock in transit

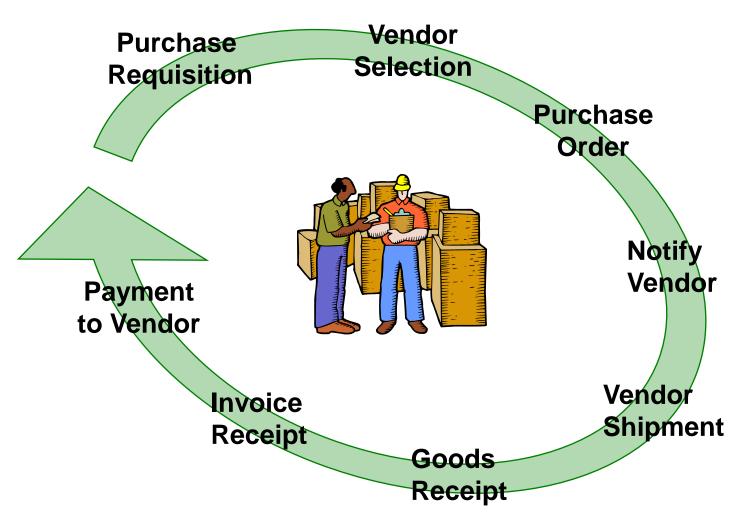
Goods Movement

- A transaction that causes a change in stock (value or status)
- Goods Receipt
 - From vendor or production process
 - Increase in quantity and value of stock
- Goods Issue
 - To sales order or internal consumption
 - Decrease in warehouse stock

Goods Movements

- Stock Transfer
 - Physical movement of material between storage locations
 - Sloc to Sloc
 - Plant to Plant
 - CC to CC
- Transfer Posting
 - Results in a change in material status
 - In-quality inspection/ blocked/ unrestricted use
 - One material type to another
 - May or may not include a change in location (Sloc, plant)

Procure-To-Pay Process



Purchase Requisition

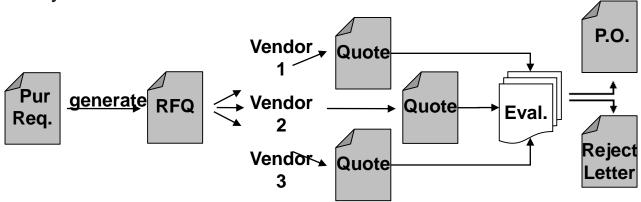
- Internal document instructing the purchasing department to request a specific good or service for a specified time
- Requisitions can be created two ways:
 - Directly Manually
 - person creating determines: what, how much, and when
 - Indirectly Automatically
 - MRP
 - Production Orders
 - Maintenance Orders
 - Sales Orders

Requisition Sourcing

- Once the requisition has been assigned a source of supply it can be released for processing
- There are a variety of ways that a purchasing department can process a requisition to determine the appropriate Source of Supply:
 - Internal Sourcing Requirements
 - Source List
 - Outlined Agreement
 - RFQ

Request for Quotation

- If nothing exist in the system we may need to submit a request for quotation to our vendors. An RFQ is an invitation to a vendor by a Purchasing Organization to submit a bid for the supply of materials or services
 - The accepted quotations will generate Purchasing Information Records
 - Perform Quotation Price Comparisons
 - Finally Select a Quotation



Quotation from Vendor

- The quotation received by your company is a legally binding offer, should decide to do business with the vendor, containing price's and conditions for the materials specified in the RFQ for a predefined period of time.
 - In SAP the RFQ and the Quotation will be become a single document, you will enter the vendor's response in the RFQ you created.

Vendor Evaluation once Identified

- Vendor evaluation helps purchasing evaluate vendors for sourcing while also enabling the company to monitor vendor relationships through performance scores and criteria you put in place.
- Supports a maximum of 99 main criteria and 20 sub criteria for each main:
 - Price : Price Level, Price History
 - Quality: Goods Receipt, Quality Audit, Complaints/Rejection level
 - Delivery: On-time delivery performance, Quantity reliability,
 Compliance with shipping instructions, Confirmation Date
- You then must establish a scoring range (1 -100) and determine the weight factors of scores for each.

Purchase Order

- A purchase order is a formal request to a vendor for a specific material or service under the stated conditions
- Purchase Orders can be created manually
 - Reference a Purchase Order
 - Reference a Purchase Requisition
 - Reference a RFQ/Quotation
 - Without Reference
- Purchase Orders can be create automatically

The Structure of a Purchase Order

Header

- Purchase order number
- Purchase order data
- Payment terms
- Vendor
- Currency

Items (detail)

- Material
- Order quantity
- Delivery date
- Price

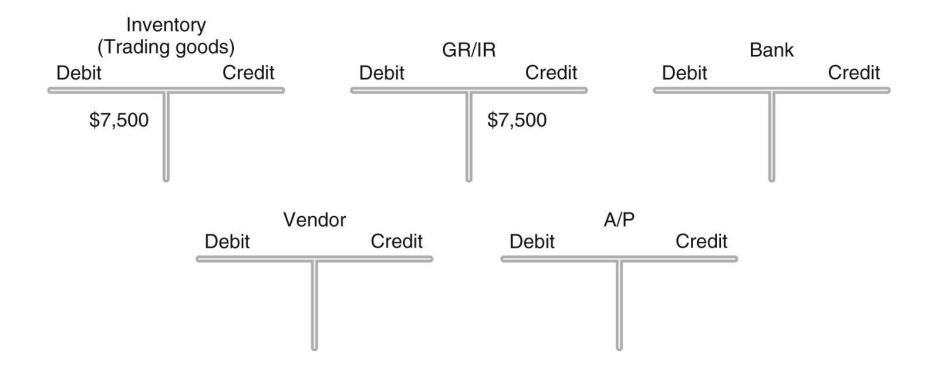
Goods Receipt

- Goods movement in which we accept goods into our system
- If materials are delivered against a Purchase Order we will reference that Order
 - Determine if we got what we ordered
 - System can purpose data for us from the PO
 - Material, quantity
 - Purchase Order History is update with the receipt
 - Updates Physical Inventory
 - Updates Inventory G/L Account

Effects of a Goods Receipt

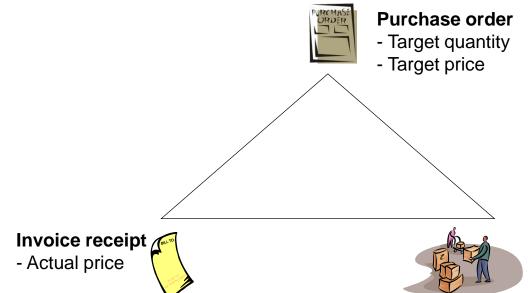
- When a Goods Movement for the receipt of goods takes place a series of events occur
 - Material Document is Created
 - Accounting Document is Created
 - Stock Quantities are Updated
 - Stock Values are Updated
 - Purchase Order is Updated
 - Output can be generated (GR slip / pallet label)

Financial Impact of Goods Receipt



Invoice Processing

- Incoming Invoices are reference against a Purchase Order to verify their content, prices, and arithmetic.
- If discrepancies arise between the purchase order or goods receipt and the invoice the system with generate a warning or an error
 - Depending on system configuration the difference could cause the system to Block the Invoice

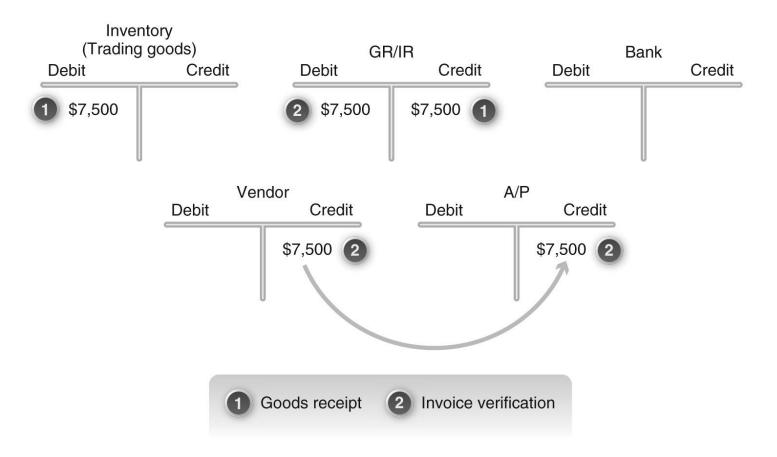


Goods receipt
- Actual quantity

Invoice Processing

- When an invoice is saved it applies the liability from the Goods Receipt of our Purchase Order to a Vendor
- Upon verification the:
 - Purchase Order is updated
 - Material Master is Updated
 - Accounting Document is created
- Once the Invoice has been posted the verification process is completed and the payment process is initiated within Financial Accounting

Financial Impact of Invoice Verification



Payment to Vendor

- Can be done automatically or manually
 - Post Outgoing Payment vs. Payment Program
- Elements of the Payment Transaction:
 - Payment Method
 - Bank from which they get paid
 - Items to be Paid
 - Calculate Payment Amount
 - Print Payment Medium
- Process will create a financial accounting document to record the transaction

Financial Impact of Vendor Payment

