SAP University Alliances

Version 1.0 Authors Bret Wagner Stefan Weidner Stephen Tracy

Product

SAP ERP 6.0 Global Bike Inc.

Level Beginner

Focus

Cross-functional integration SD, MM, PP, FI, CO

Introduction to SAP ERP

Abstract

This teaching material is intended to explain how the fundamental business processes interact with SAP ERP in the functional areas of Sales and Distribution, Materials Management, Production Planning, Financial Accounting, Controlling, and Human Capital Management.

SAP ERP Course Content

- Introduction to SAP
- Navigation
- Sales & Distribution
- Materials Management
- Production Planning
- Financial Accounting
- Controlling

SAP ERP SAP

"Systems, Applications, and Products in Data Processing"

- Name of the Company
 - SAP AG
 - SAP America
 - SAP UK
- Name of the Software
 - SAP R/2
 - SAP R/3
 - SAP ERP

SAP ERP Who is SAP?

- SAP AG
 - Founded in Walldorf, Germany in 1972
 - World's Largest Business Software Company
 - World's Third-largest Independent Software Provider
- Company Statistics
 - Over 40,000 employees in more then 50 countries
 - 1500 Business Partners
 - 36,200 customers in more then 120 countries
 - 12 million users
 - 100,600 installations

Source: SAP AG website

Integrated Business Solution Vendors

- SAP (Systems, Applications, & Products in Data Processing)
 - SAP ERP, All-in-One, Business by Design, Business One
- **Oracle Applications**
 - Oracle, JD Edwards, PeopleSoft, Siebel, Retek
- Microsoft Business Solutions
 - Dynamics: Great Plains, Navision, Axapta, Soloman
- The Sage Group
 - Sage Software Accpac ERP, PeachTree
- SSA Global Technologies
 - BAAN -

SAP ERP SAP Architecture

- World-wide usage
- Designed to satisfy the information needs for business sizes (small local to large all international)
 - Multi-lingual
 - Multi-currency
- Designed to satisfy the information needs for all industries

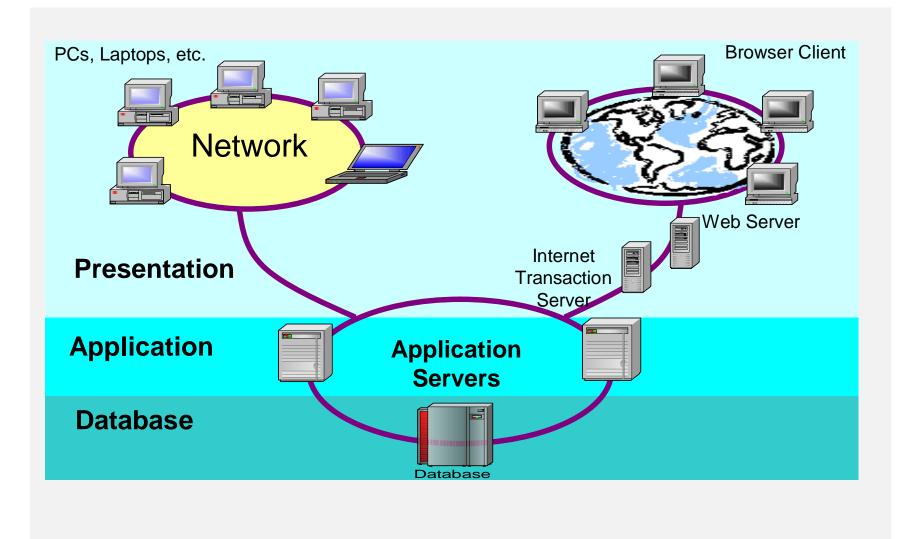
SAP ERP SAP ERP

- Enables a company to link it's business processes
- Ties together disparate business functions (integrated business solution)
- Helps the organization run smoothly
- Real-time environment
- Scalable and flexible

SAP ERP SAP Architecture

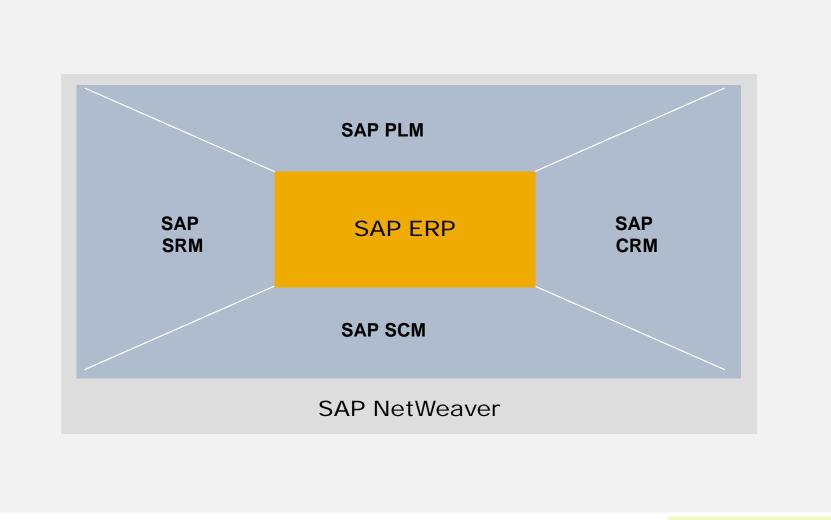
- Client/Server Environment
 - Client hardware/software environment that can make a request for services for a central repository of resources
 - Server hardware/software combination that can provide services to a group of clients in a controlled environment
- Three Tier Structure
 - GUI
 - Graphical User Interface or Web Interface
 - Application Server
 - One or more, help distribute work load
 - Database Server
 - One single data repository

SAP ERP SAP Architecture



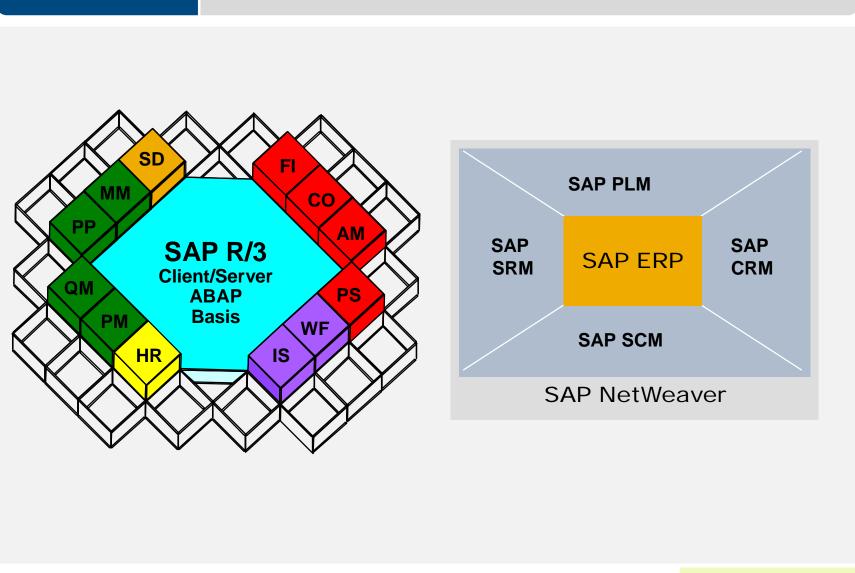
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SAP ERP SAP Business Suite



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SAP ERP SAP Business Suite



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SAP ERP SAP Software Applications

- Solutions
 - SAP ERP
 - SAP CRM
 - SAP PLM
 - SAP SCM
 - SAP SRM
 - SAP Analytics
 - SAP Manufacturing
 - SAP Service
 - SAP Mobile Solutions
 - SAP xApps

- Small & Medium Size Solutions
 - Business One
 - Business by Design
 - SAP All-in-One
- Platforms
 - Enterprise Services Architecture
 - SAP NetWeaver Platform

SAP ERP SAP ERP Business Modules

- Collections of logically related transactions within identifiable business functions
 - MM ("Buy")
 - PP ("Make")
 - SD ("Sell")
 - FI and CO ("Track")
 - HCM

SAP ERP SAP ERP Core Applications

- Logistics
 - Sales & Distribution
 - Plant Maintenance
 - Materials Management
 - Production Planning
 - Quality Management
- Accounting
 - Financial Accounting
 - Controlling
 - Asset Management
 - Treasury

- Human Resources
 - Personnel Management
 - Benefits
 - Payroll

SAP ERP SAP Industry Solutions

- Aerospace & Defense
- Automotive
- Banking
- Chemicals
- Consumer Products
- Defense & Security
- Engineering, Const.
- Healthcare
- High Tech
- Higher Education
- Industrial Machinery
- Insurance
- Life Sciences
- Logistics Service Prod.

- Media
- Mill Products
- Mining
- Oil & Gas
- Pharmaceuticals
- Postal Services
- Professional Services
- Public Sector
- Railways
- Retail
- Telecommunications
- Utilities
- Wholesale Distribution

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SAP Univ	versity Alliances
Version	1.0
Authors	Bret Wagner
	Stefan Weidner
	Stephen Tracy

Navigation

Product	Abstract
All	This material explains how to navigate in SAP systems. It is aimed at
Level	students at educational institutions, such as schools, universities of
Beginner	cooperative education, universities of applied sciences, and other
Ũ	universities, with no previous experience of SAP software. It can be used
Focus SAP ERP	in the classroom or for self-study.

On completion of the course, students will be able to navigate through the user interface to deal with business processes and case studies.

SAP ERP Content

- User guidance
- User specific settings
- Navigation in SAP Easy Access Menu
- Help

SAP ERP Learning Targets

At the end of this chapter you can

- Name the window elements
- Navigate in an SAP system
- Apply personal system settings
- Effectively use Help

Log on to an SAP system

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A25	Log on
A35	
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🗊 G02 [SPACE]	<u>G</u> roups
👘 603 [SPACE]	Server
🕼 G04 [SPACE]	
🗊 G05 [SPACE]	User-Defined
🕼 G06 [SPACE]	
🗊 G07 [SPACE]	Change Item
🕼 G08 [SPACE]	

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SAP Easy Access Menu

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Favorites SAP menu Office Cross-Application Components Collaboration Projects Collaboration Projects Collaboration Projects Accounting Accounting Human Resources Information Systems Tools SAP DEMO SYSTEMS	AP Easy Access		
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SAP ERP SAP Easy Access Menu

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Production - Process	Product Catalog	
D 🗋 Plant Maintenance	Sales and Distribution	
D 🗀 Customer Service		
D 🖸 Quality Management	D Constitution	
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Role-based User Menu

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	AC280-RECHERCHE				
	ADSCALLER				
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	AIS_AR_CLERK_US00	AIS - Accounts Receivable Clerk			
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	CA940_DISPLAY	CA: Display authorizations for all modules (except BC, CA, HR)			
	CA940_PLUS				
	CA940_SD_SALES				
	CA940_USER				
	CFM_INSURANCE_COMPANIES				
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	CH_MANAGER	Manager Switzerland			
	CH_MINI				
	CH_PAYROLL	Payroll Administration Switzerland			
		HP: Compensation Specialist	T		

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SAP ERP **DYNPRO Elements**

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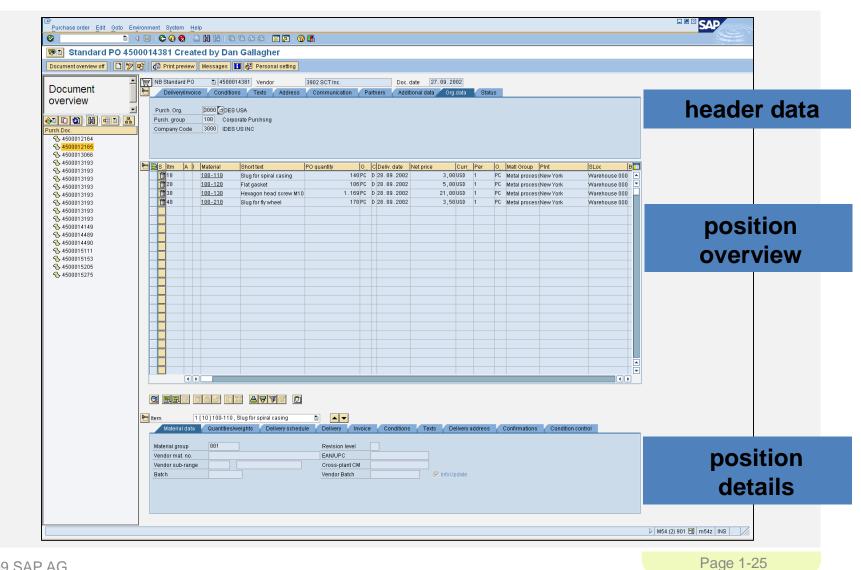
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ENJOY Initiative – Old Design

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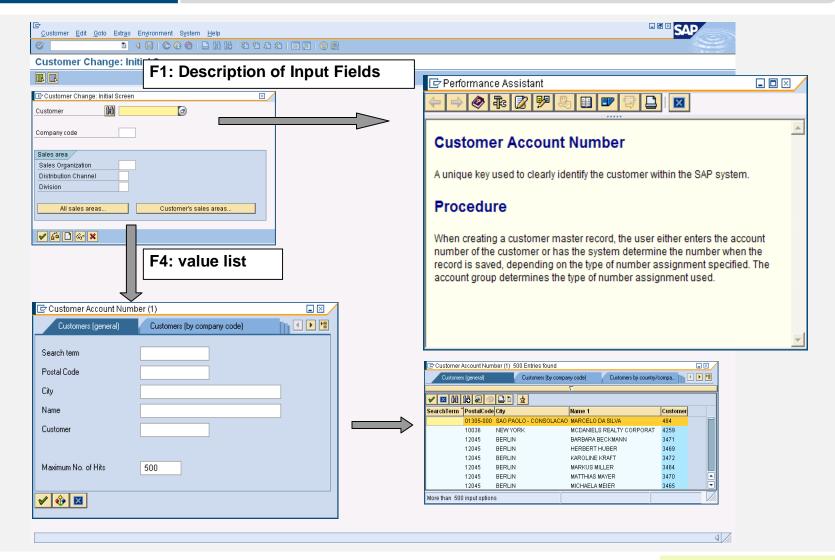
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ENJOY Initiative – New Design



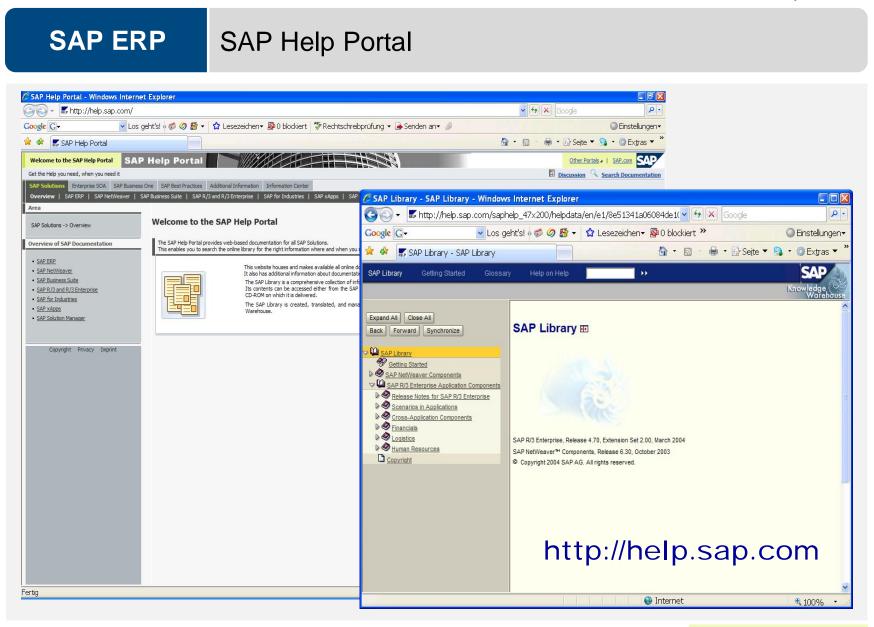
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Help Functions



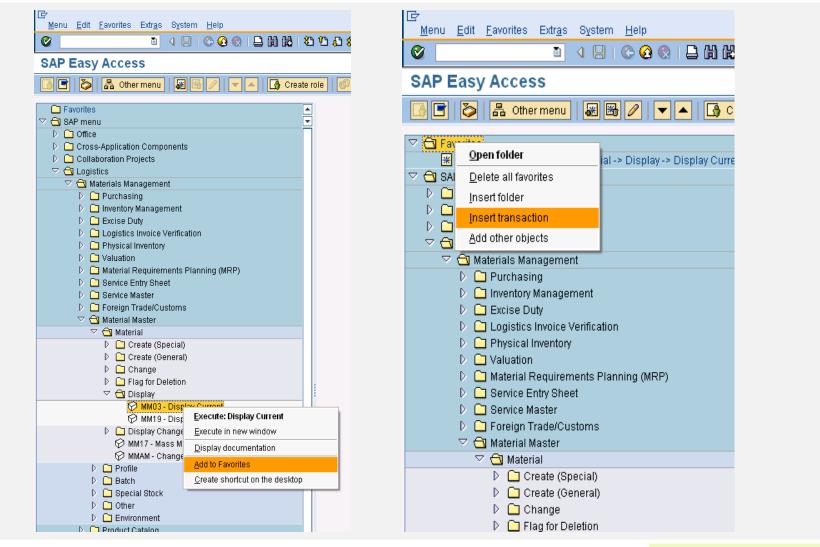
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SAP University Alliances



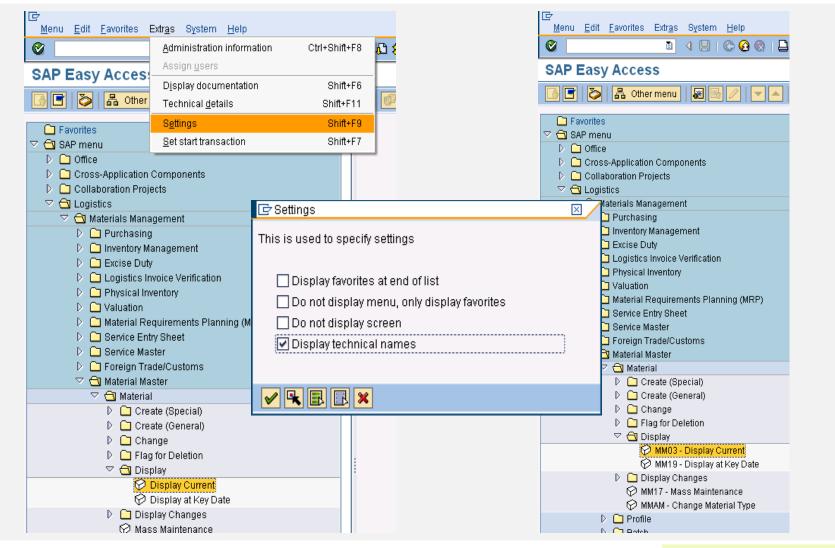
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Favorites



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Transaction Codes



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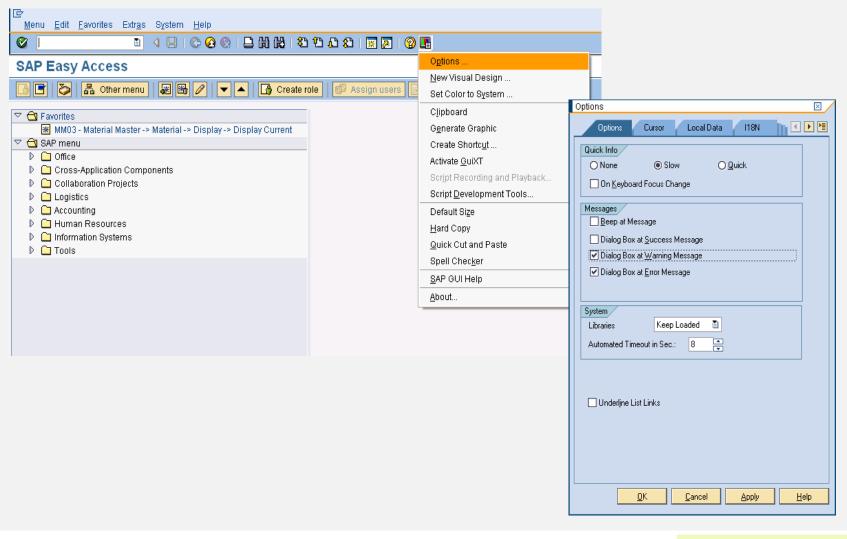
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User Profile Settings (local PC)



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User Profile Settings (SAP system)

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Desktop Shortcut

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SAP ERP Summary

You are now able to:

- Name the window elements
- Navigate in an SAP system
- Apply personal system settings
- Effectively use help

SAP Ur	niversity A	lliances
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Version 1.0

Authors Bret Wagner Stefan Weidner Stephen Tracy

Global Bike Inc.

Product SAP ERP

Level Beginner

Focus

Global Bike Inc. Integration

Abstract

This material explains the company on which the introduction material is based on. It describes its enterprise structure in detail.

SAP ERP Global Bike Incorporated

- Company in the bicycle business
- Initially buys and re-sells different lines of bicycles
- Sells to both wholesale and Internet procure and distribute
- Later acquires a production facility to manufacture its own product – produce and distribute

SAP ERP Core Busin

Core Business Processes

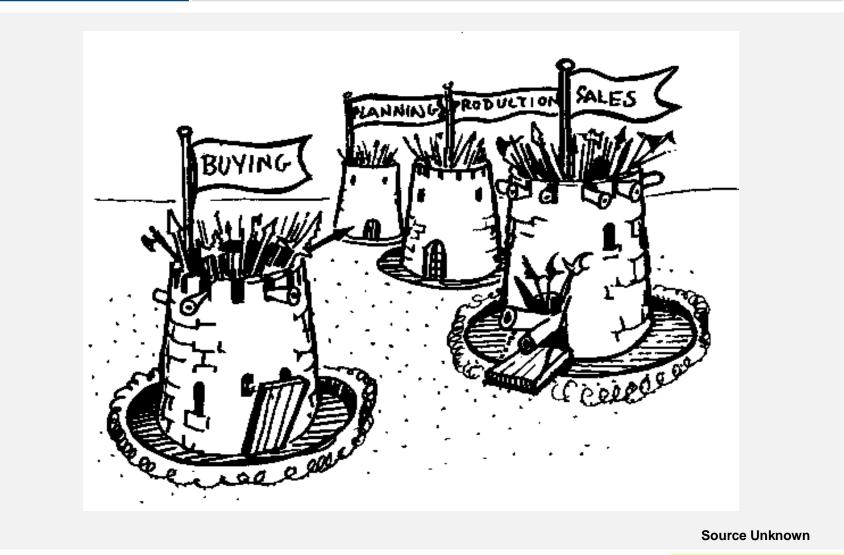
Global Bike Inc.

- Sell Sales and Distribution (SD)
- Buy Procurement (MM)
- Plan Production Planning (PP)
- Make Manufacturing Execution (PP)
- Track Financial Accounting (FI)
- Track Controlling (CO)

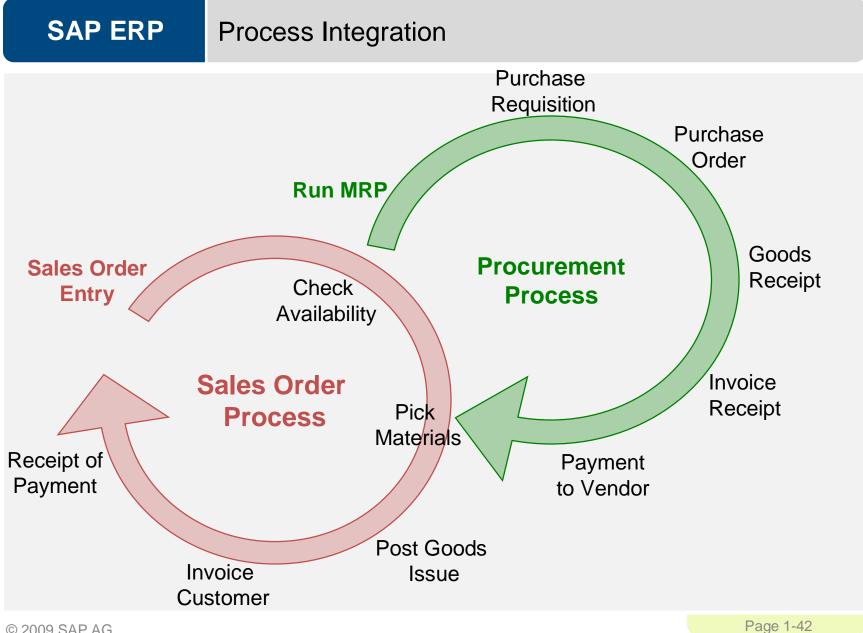
SAP ERP Two Approaches of Learning

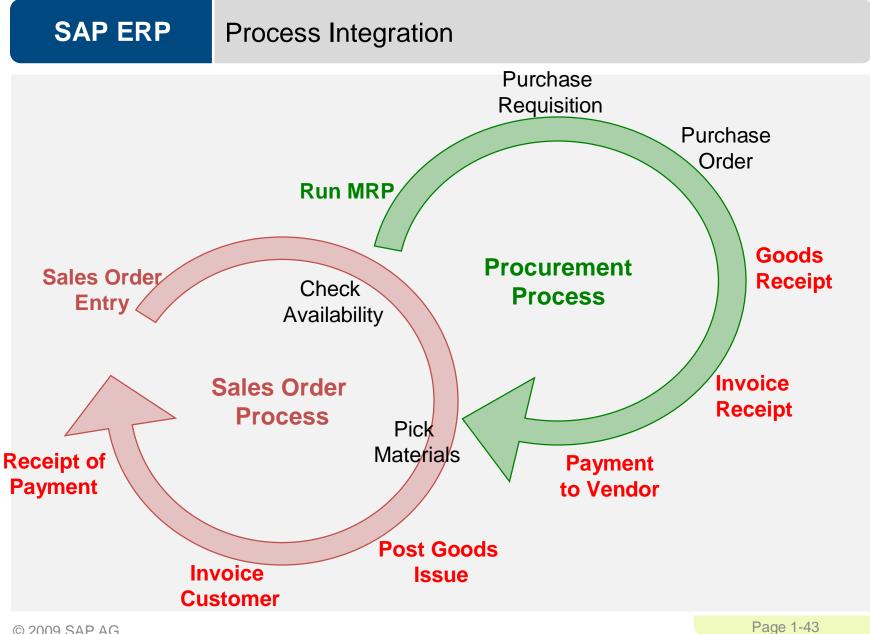
- Standard Training
 - Level 1: Introductory
 - Level 2: Business processes
 - Level 3: Configuration
- Business Process Integration Approach
 - Cross functional
 - Understand business processes and their relationship to SAP's organizational structure
 - Highlight integration/configuration

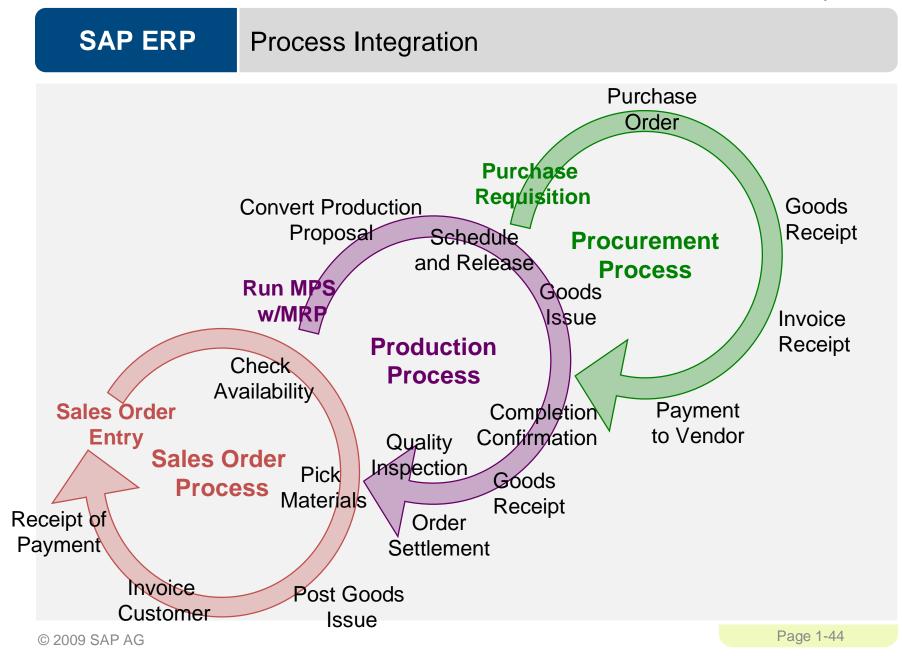
SAP ERP Cross-functional integration

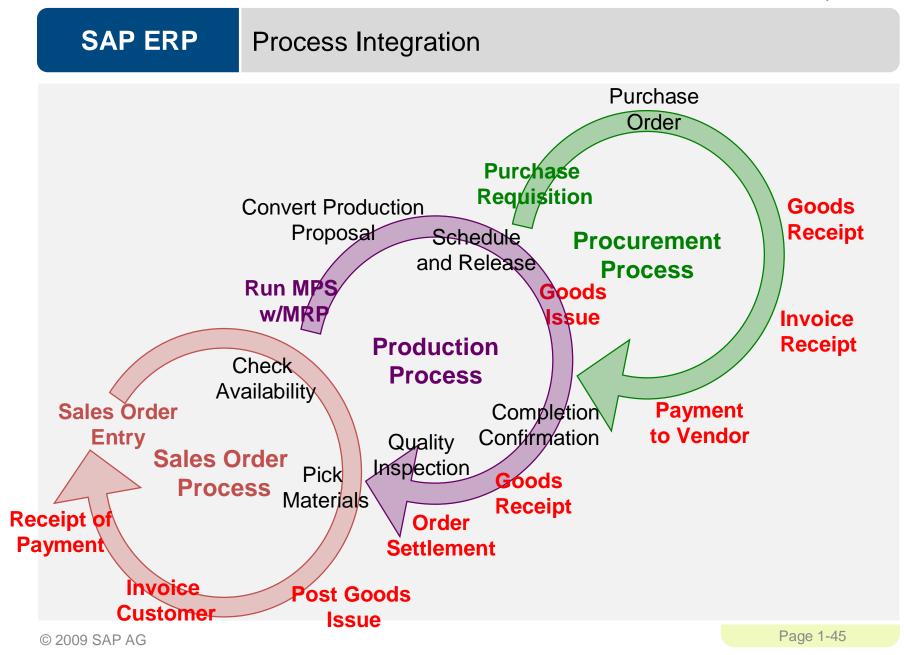


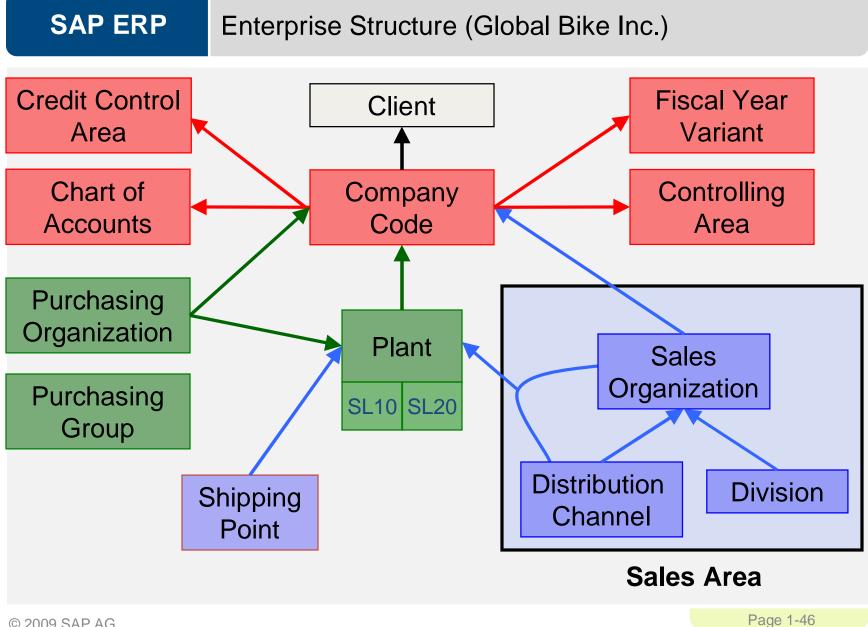
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SAP University Alliances

Version 1.0

Authors Bret Wagner Stefan Weidner Stephen Tracy

Sales and Distribution (SD)

Product

SAP ERP 6.0 Global Bike Inc.

Level Beginner

Focus

Cross-functional integration Sales and Distribution

SAP ERP Functionality

- Sales Support
- Sales
- Shipping and Transportation
- Billing
- Credit Management
- Foreign Trade

Chapter Overview

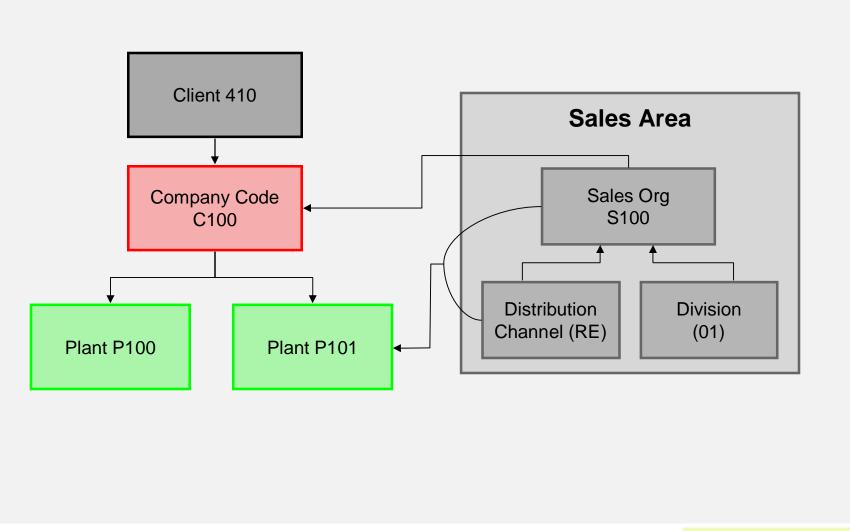
- Sales and Distribution Org. Levels
- Sales and Distribution Master Data
- Sales Order Process
 - Order-to-Cash

Organizational Structure

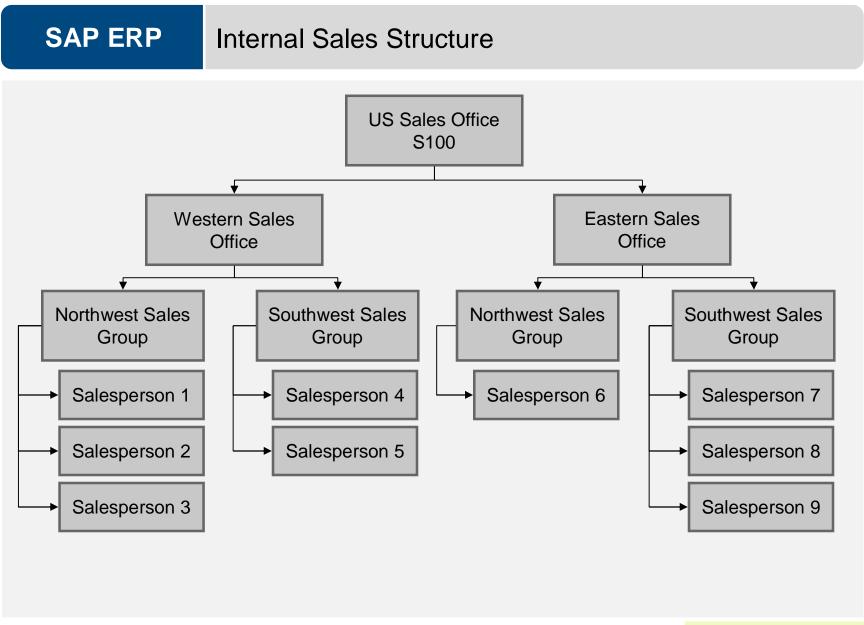
- S&D Structure
- Client
- Company Code
- Sales Area
 - Sales Organization
 - Distribution Channel
 - Division
- Plant

- Shipping Point
- Loading Point
- Internal Sales Structure
- Sales Offices
- Sales Groups
- Salesperson

SAP ERP Structure for Sales Order Processing



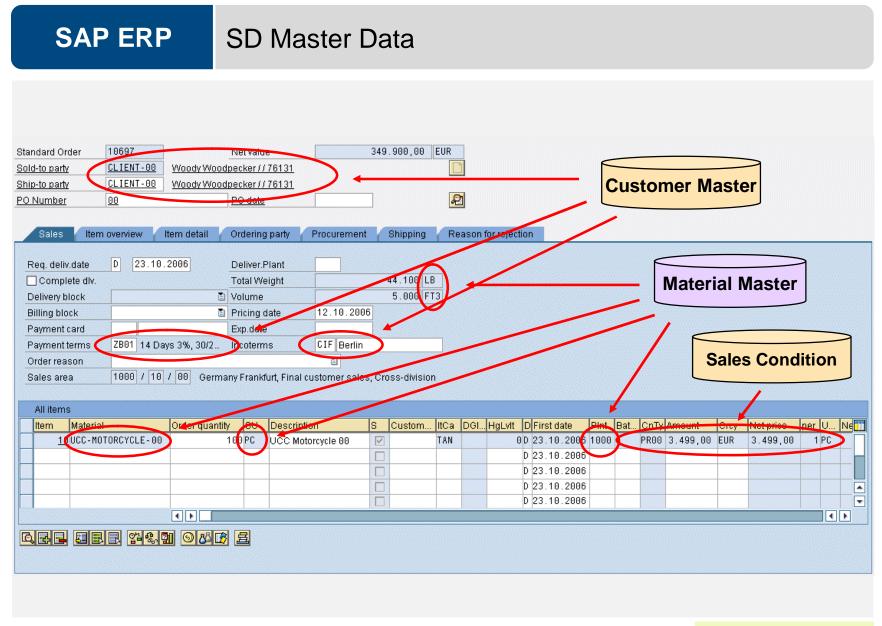
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SAP ERP Structure for Distribution Client 410 Company Code C100 Plant P100 Plant P101 ¥ Shipping Point **Shipping Point** Shipping Point Rail Dock Express Dock Freight Dock √ Loading Point Loading Point Loading Point LP03 LP02 LP01

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Customer Master Data

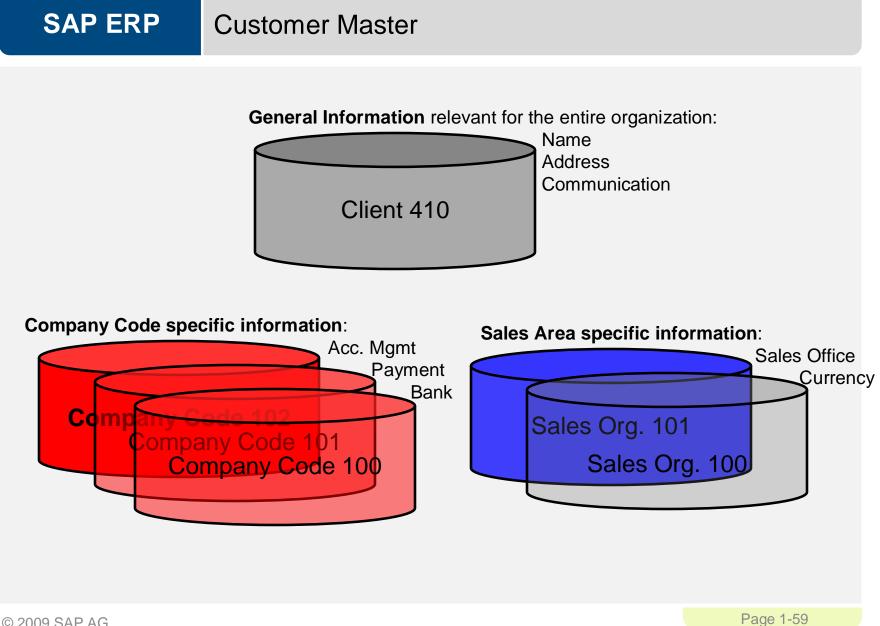
- Customer Master
 - Contains all of the information necessary for processing orders, deliveries, invoices and customer payment
 - Every customer MUST have a master record
- Created by Sales Area
 - Sales Organization
 - Distribution Channel
 - Division

De Change Cus	tomer: General Data
🖷 Other Customer Compa	any Code Data] Sales Area Data 🔀 CIN Details Additional Data, Empties]
Customer 301	00 The Bike Zone Portland
Address Control Data	a Payment Transactions Marketing Unloading Points Export Data
Preview 🖧 🦷	Internat. versions
Name	
Title	
Name	00 The Bike Zone
Search Terms	
Search term 1/2	00
Street Address	
Street/House number	
Postal Code/City	97204 Portland
Country	US USA Region OR Oregon
Time zone	PST
PO Box Address PO Box	
Postal code	
Company postal code	
Communication	
Language	EN English
Telephone	Extension
Mobile Phone	
Fax	Extension 🗢
E-Mail	\$
StandardComm.Mtd	
Data line	
JI	

Customer Master Data

- The customer master information is divided into 3 areas:
 - General Data
 - Company Code Data
 - Sales Area Data

🕫 Change Cus	tomer: General Data
🖷 Other Customer Comp	any Code Data 🛛 Sales Area Data 🛃 CIN Details 🗍 Additional Data, Empties 📄
Customer 301 Address Control Data	00 The Bike Zone Portland
😽 📮 Preview 🔓 🦷	🗄 Internat. versions
Name Title	E CO The Dille Tene
Name	00 The Bike Zone
Search Terms Search term 1/2	00
Street Address	
Street/House number	07004 Destland
Postal Code/City Country	97204 Portland US USA Region 0R Oregon
Time zone	PST
PO Box Address	
PO Box	
Postal code	
Company postal code	E Contraction of the second
Communication	
Language	EN English
Telephone	Extension
Mobile Phone	8
Fax	Extension
E-Mail	₽
StandardComm.Mtd	ĩ
Data line	



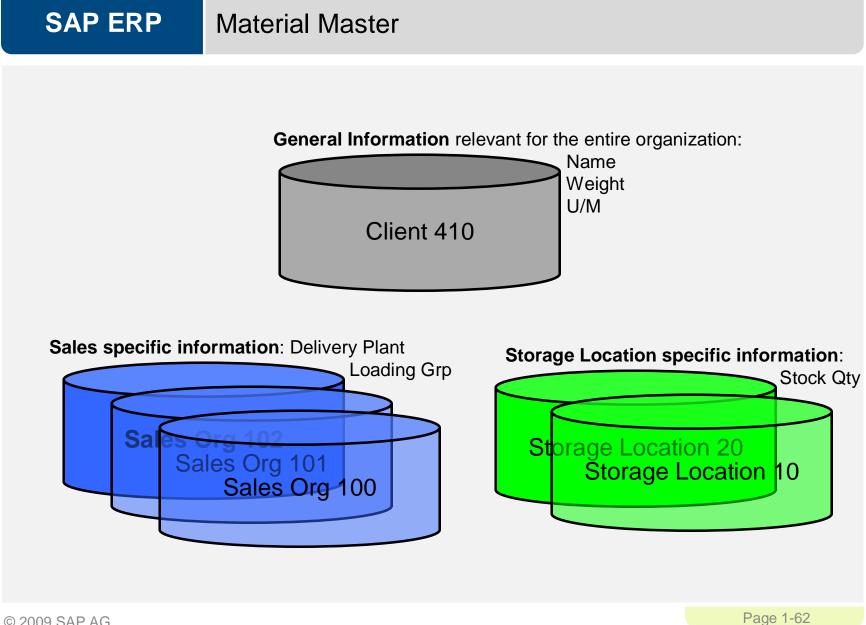
Material Master Data

- Material Master
 - Contains all the information a company needs to manage about a material
 - It is used by most components within the SAP system
 - Sales and Distribution
 - Materials Management
 - Production
 - Plant Maintenance
 - Accounting/Controlling
 - Quality Management
 - Material master data is stored in functional segments called Views

Material Edit Goto Er			lp 日 田 田 王 智 智	🗘 🕄 🛒 🛛	2 🕲 🖪	
Change Ma	terial	KB-0013-	00 (Trading Go	ods)		
省 🔿 Additional data 🖁	organiza	ational levels	🚰 Check screen data	8		
🕞 Basic data 1 🛛 Ba	asic data 2	Sales:	sales org. 1 🛛 🗟 Sa	iles: sales ord i	2 🕞 Sale 📊 🖸	
Material KB-0013-0		Mekena				
General data						٦.
Base Unit of Measure	ST	items	Material Group	02022		
Old material number			Ext. Matl Group			
Division	01		Lab/Office			
Product allocation			Prod.hierarchy			
X-plant matl status			Valid from			
Assign effect. vals			GenitemCatGroup	NORM Star	ndard item	
Material authorization group	o/					
Authorization Group						
Dimensions/EANs						5
Gross Weight	10		Weight unit	KG		
Net Weight	10					
Volume			Volume unit			
Size/dimensions						
EAN/UPC			EAN Category			
Packaging material data /	/					7
Matl Grp Pack.Matls						
Basic Data Texts						7
Languages Maintained	0	🔁 Basic	Data Text Lang	uage:	۵	

SAP ERP **Material Master Views** Sales Data **Purchasing Data Basic Data** Mat. Plan. Data Forecasting Data Material Master Storage Data **Controlling Data** Quality Data Accounting Data

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Customer Material Information Record

- Data on a material defined for a specific customer is stored in a Customer material info record.
- Info Records contain:
 - Customer-specific material number
 - Customer-specific material description
 - Customer-specific data on deliveries and delivery tolerances
- You can also maintain default text to appear on sales orders for that customer

<i>⊡</i> 	Goto S <u>y</u> stem <u>H</u> elp
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Material	KB-0013-00 Mekena
Sales Organization	00A1 Bike - USA
Distribution Channel	WH Wholesale
Customer	301 00 The Bike Zone
Customer material	
Customer Material	1234567
Customer description	Kids Bike - Mek
Search term	KB
Shipping	
Plant	00a2
Delivery Priority	2 Normal item
Minimum delivery qty	10 ST
Partial delivery	
Part.dlv./item	Underdel. Tolerance 5 %
Max.Part.Deliveries	2 Overdeliv. Tolerance 5 %
	Unlimited tolerance
Control data	
Item usage	

Condition Master (Pricing)

- Condition master data includes:
 - Prices
 - Surcharges
 - Discounts
 - Freights
 - Taxes
- You can define the condition master to be dependent on various data:
 - Material specific
 - Customer specific
- Conditions can be dependent on any document field

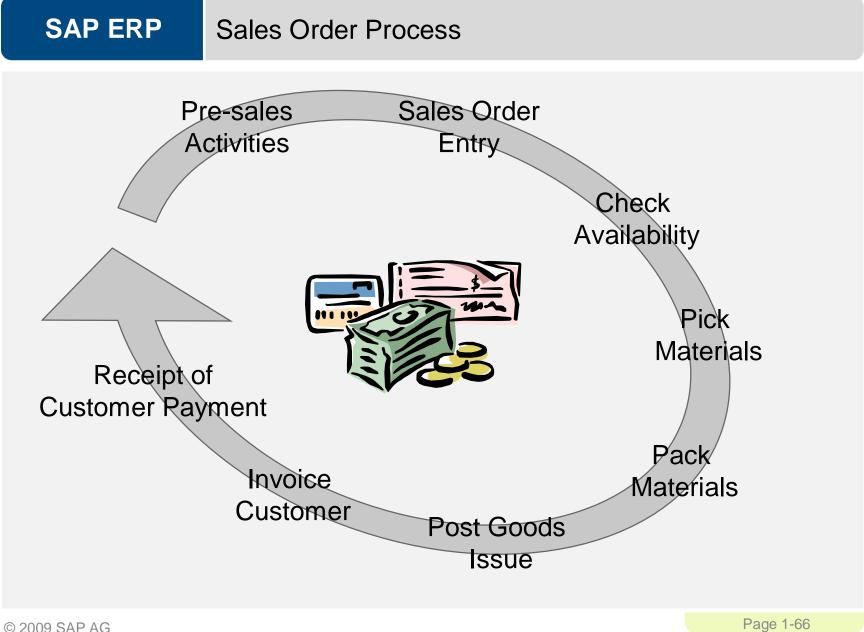
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_	-		ements					
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			Gross Value	185.00	USD	1	ST	92,500.00
		K004	Material	5.00	USD	1	ST	2,500.00-
		RAOO	% Discount from Net	5.000	8			4,500.00-
			Discount Amount	14.00	USD	1	ST	7,000.00-
			Rebate Basis	171.00	USD	1	ST	85,500.00
			Net Value for Item	171.00	USD	1	ST	85,500.00
			Net Value 2	171.00	USD	1	ST	85,500.00
			Net Value 3	171.00	USD	1	ST	85,500.00
			Total	171.00	USD	1	ST	85,500.00
		SKTO	Cash Discount	0.000	8			0.00
		VDRC.	Internal price	155.00	USD	1	ST	77,500.00
		VENO	internal price					
		VE113	Profit Margin	16.00	USD	1	ST	8,000.00
		1	Profit Margin	16.00 250 ST	Ne	:t	ST	8,000.00 63,8
Qty		VF113	Profit Margin			:t	ST	
		•	Profit Margin		Ne	:t	ST	
	Pri	cing El	Profit Margin	250 ST	Ne Ta	et IX		63,8
	Priv	cing El	Profit Margin ements Name	250 ST	Ne Ta Crcy	:t	Uo	63, 8
	Priv	cing El	Profit Margin ements Name Price	250 ST Amount 269.0	Ne Ta Crcy 9 USD	et IX	U0 1 ST	63, 8
	Priv	cing El CnTy PR00	Profit Margin ements Name Price Gross Value	250 ST Amount 269.00	Ne Ta Crcy USD USD	et IX	Uo	63, 8 Condition value 67, 250.0 67, 250.0
	Priv	cing El CnTy PR00	Profit Margin ements Name Price Gross Value Customer Discount	Amount 269.00 269.00 5.00	Ne Ta Crcy 0 USD 0 USD 0 USD 0 S	et IX	U0 1 ST 1 ST	63,8 Condition value 67,250.0 67,250.0 3,362.5
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	Priv	cing El CnTy PR00	ements Name Price Gross Value Customer Discount Discount Amount Rebate Basis Net Value for Item Net Value 2	250 ST Amount 269.00 269.00 5.000 13.49 255.59 255.59	Ne Ta 0 USD 0 USD	et IX	U00 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST	63,8 Condition value 67,250,0 67,250,0 3,362,5 3,362,5 63,887,5 63,887,5 63,887,5
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	Prin N	cing El CnTy PR00 K007	Profit Margin ements Name Price Gross Value Customer Discount Discount Amount Rebate Basis Net Value for Item Net Value 2 Net Value 3 Total	250 ST Amount 269.00 269.00 5.000 13.44 255.55 255.55 255.55 255.55	Ne Ta VSD VSD VSD VSD VSD VSD VSD VSD VSD VSD	et IX	U00 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST	63,8 Condition value 67,250,0 67,250,0 3,362,5 3,362,5 63,887,5 63,887,5 63,887,5 63,887,5 63,887,5 63,887,5
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	Prin	cing El CnTy PR00 K007 K007 SKT0	Profit Margin ements Name Price Gross Value Customer Discount Discount Amount Rebate Basis Net Value for Item Net Value 2 Net Value 3 Total	250 ST Amount 269.00 269.00 5.000 13.44 255.55 255.55 255.55 255.55	Ne Ta 0 USD 0 S 0 USD	et IX	U0 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST 1 ST	63,8 Condition value 67,250.0 67,250.0 3,362.5 63,362.5 63,887.5 63,887.5 63,887.5 63,887.5 63,887.5 63,887.5 63,887.5 0.0

SAP ERP (

Output

- Output is information that is sent to the customer using various media, such as:
 - E-mail
 - Mail
 - EDI
 - Fax
 - XML
- Output examples:
 - Quotation
 - Confirmation
 - Invoice

Output Edit Goto S			
Ø		000000000000000000000000000000000000000	
Change Standar	d Order 5: 0	Dutput	
Sold-to party	301	00 The Bike Zone	
Output type	BAOO	Order Confirmation	
Printing information			
Logical destination	Local Printer		
Number of messages		Print immediately	
Spool request name		🔲 Release after output	
Suffix 1			
Suffix 2			
SAP cover page	Do Not Print		E
Recipient	STRACY		
Department			
Cover Page Text	Access Type fo	or Print Parameter and Proposal	
Authorization			
Storage Mode	1 Print only		Ē.
Format			
Form			



SAP ERP Pre-Sales Activities (CRM Light)

- Sales Support is a component of SD that assists in the sales, distribution, and marketing of a companies products and services to its customers. It contains the following functionality:
 - Creating and tracking customer contacts and communications (sales activity)
 - Phone call records
 - On-site meeting
 - Letters
 - Campaign communication
 - Implementing and tracking direct mailing, internet, and trade fair campaigns based on customer attributes
- Pre-sales documents need to be managed within the presales activities: Inquiries and Quotations. These documents help identify possible sales related activity and determine sales probability.

Pre-Sales Activities (CRM Light)

- The ultimate goal of all presales activities is to equip the sales technician with all the information necessary to negotiate and complete the potential sale.
- Information needed:

SAP ERP

- Past sales activity
- Past communication
- Contact information
- General Company info
- Credit limits and usage
- Current backorders
- 360° view of your customer

	1/		Contact persons	/			
Туре	Sales Call	Ē.	Company	162	SAP, An	nerica / / New	rton Square PA
From	10/04/2006	09:45 📑 🞦	Contact person	Eva Ro	omero		
То	10/04/2006	10:22	Employee respo	ns. 21	Graysor	n / 150 Forest	t Ave / US / 5
Comment	Status HOT						
ollow-up ac	tions		dh.				
Create stan	dard order		🗈 🕒 St	art 🔣 🖧		0 1	Link objects
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Sales ac Sales ac 01000 00000 00000	ctivities (CAS) ctivities (CAS) 100003 D Order 100146 D	Date 03/10/06 Date 10/03/06	Max 0	Value in T Totals 0	0 Net 1,452.25	value 0.00 value USD	Status Open Status Open
Sales ac Sales ac 01000 00000 00000 00000	ctivities (CAS) ctivities (CAS) 000003 ▷ Order 100146 ▷ 100145 ▷	0 Date 03/10/06 Date 10/03/06 09/25/06	Max 0	Value in T Totals 0	0 Net 1,452.25 1.09	value 0.00 value USD USD	Status Open Status Open Open Open
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SAP ERP Inq

Inquiry

- An inquiry is a customer's request to a company for information or quotation in respect to their products or services without obligation to purchase.
 - How much will it cost
 - Material/Service availability
 - May contain specific quantities and dates
- The inquiry is maintained in the system and a quotation is created to address questions for the potential customer.

Quotation

 The quotation presents the customer with a legally binding offer to deliver specific products or a selection of a certain amount of products in a specified timeframe at a pre-defined price.

GBI

123 Any Street Battle Creek, MI 49015 Phone (605) 555-1212 Fax (605) 555-1414

Bill To: Heartland Bike Company 1234 North Main Kansas City, MO 64118 (123) 555-1212

Quotation

DATE February 25, 2008 Quotation # 20000001 Customer ID

Quotation valid until: June 4, 2008 Prepared by: S. Tracy

Comments or special instructions:

Quantity	Description	Unit Price	AMOUNT
10	KB-0013-00	185.00	1,850.00
	Discount	(5.00)	(50.00)
5	TB-0014-00	269.00	1,345.00
	Discount	-	-
	Total Discount	5.00%	(157.25)
		TOTAL	\$ 2,987.75

If you have any questions concerning this quotation, contact: Steve Tracy (605) 555-1212 12345@GBI.com

THANK YOU FOR YOUR BUSINESS!

SAP ERP Sales Order

- Sales order processing can originate from a variety of documents and activities
 - Customer contacts us for order: phone, internet, email
 - Existing Contract
 - Quotations
- The electronic document that is created should contain the following basic information:
 - Customer Information
 - Material/service and quantity
 - Pricing (conditions)
 - Specific delivery dates and quantities
 - Shipping information
 - Billing Information

SAP ERP Sales Order

- The sales document is made up of three primary areas:
 - Header
 - Data relevant for the entire sales order: Ex: customer data, total cost of the order
 - Line Item
 - Information about the specific product: Ex: material and quantity, cost of an individual line
 - Schedule Lines
 - Uniquely belongs to a Line Item, contains delivery quantities and dates for partial deliveries

Standard Order	5		Net value		159,750.	00 USD)
Sold-to party	<u>301</u>	00 The Bike	Zone / / Portland OR	97204			
Ship-to party	<u>301</u>	00 The Bike	Zone / / Portland OR	97204			
PO Number	1234456		PO date	02/25/200	38		2
Sales Item ov	verview 🖌 Iten	n detail 🍟 Orde	ering party 🖌 Procure	ement Sh	ipping 🖌 Re	eason for	rejection
Req. deliv.date	D 02/25	/2008	Deliver.Plant				
Complete dlv.			Total Weight		7,50	0 KG	
Delivery block		ā	Volume		0.00		
Billing block			Pricing date	02/25/200			
Payment card			Exp.date	027207200			
Payment terms	0001 Pav ir	nmediately w/o		E0B Origin	Shipping Do	nck	
Order reason	ooor ray ii	milediately wo	Incoternia	i ob oligii	rompping Di	ben	
Sales area	00A1 / WH	/ 01 Bike -	USA, Wholesale, Bic				
Sales area	OOAT 7 WIT	7 OT DIRC-	COA, Wholesale, ble	yeles			
All items							
Item Material	Order	Quantity SU	S Description	ltCa	DGI HgLvi	t DEin	st date Pln
10 KB - 0013		500 ST	Mekena	TAN	r.gen		/25/2008 00/
20TB-0014		250 ST	Star Lady Bike 2				/25/2008 00/
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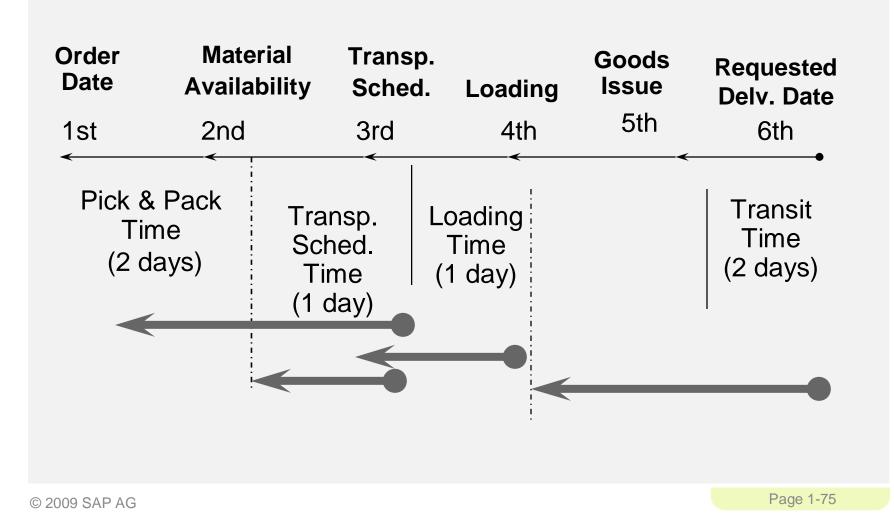
SAP ERP Sales Order

- The sales order contains all of the information needed to process your customers request, the following information is determined for each sales order:
 - Delivering Schedule
 - Shipping point and route determination
 - Availability Check
 - Transfer of requirements to MRP
 - Pricing
 - Credit limit check

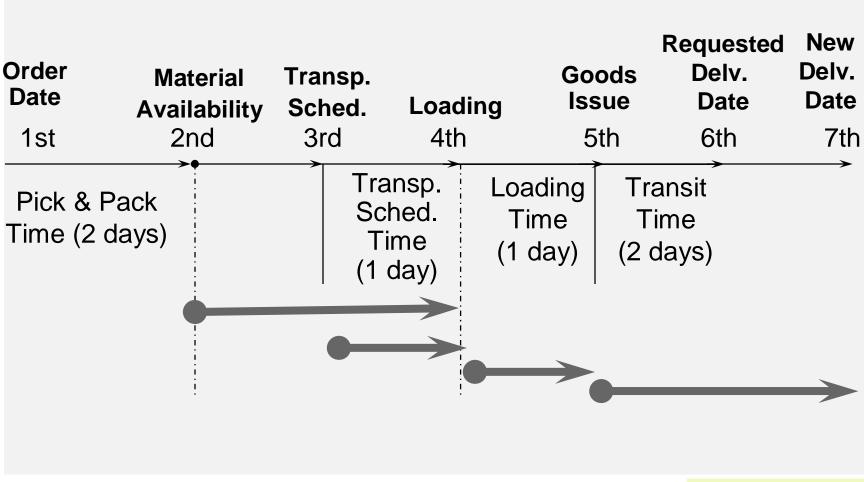
SAP ERP Delivery Scheduling

- When an order is created the you must enter a requested delivery date for the order or each line item.
- The system will then determine a delivery timeline, this will be used when determining our material availability, or ATP (Availability to Promise) date.
- The system will determine this date using forward and backward scheduling rules you have defined.

SAP ERP Backward Scheduling



SAP ERP Forward Scheduling



SAP ERP Shipping & Route Determination

- During the creation of the sales order the system must determine the shipping point from which the material will be shipped and the route the material will take to get from your warehouse to your customers location.
- A shipping point is determined for each line item within the order.
- The route determination will is used to define the transit time of the material that we used in scheduling.

Availability Check

- Availability Check
 - Determines the material availability date
 - Considers all inward and outward inventory movements
- Proposes 3 methods of delivery
 - One-time delivery
 - Complete delivery
 - Delayed proposal
- Rules are created by YOU

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Transfer to Planning

 The order is transferred to Material Requirements Planning as an (CIR) Customer Independent Requirement. If a deficit is found the system will propose a Purchase Req. or Order to fulfill the shortage.

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SAP ERP Pricing

- The system displays pricing information for all sales documents on the pricing screens at both the header and the line item level.
 - Header pricing is valid for the whole order it is the cumulative of all line items within the order
 - Line item pricing is for each specific material.
- The system will automatically search for price, discounts, surcharges, calculate taxes and freight. You have the ability to manually manipulate the pricing at both the header and line item level within the sales order by entering a condition type and amount.
 - Taxes and freight can be set-up so we can't manually enter

SAP ERP Credit Check

- Allows your company to manage its credit exposure and risk for each customer by specifying credit limits.
- During the sales order process the system will alert the sales rep about the customers credit situation that arises, if necessary the system can be configured to block orders and deliveries.

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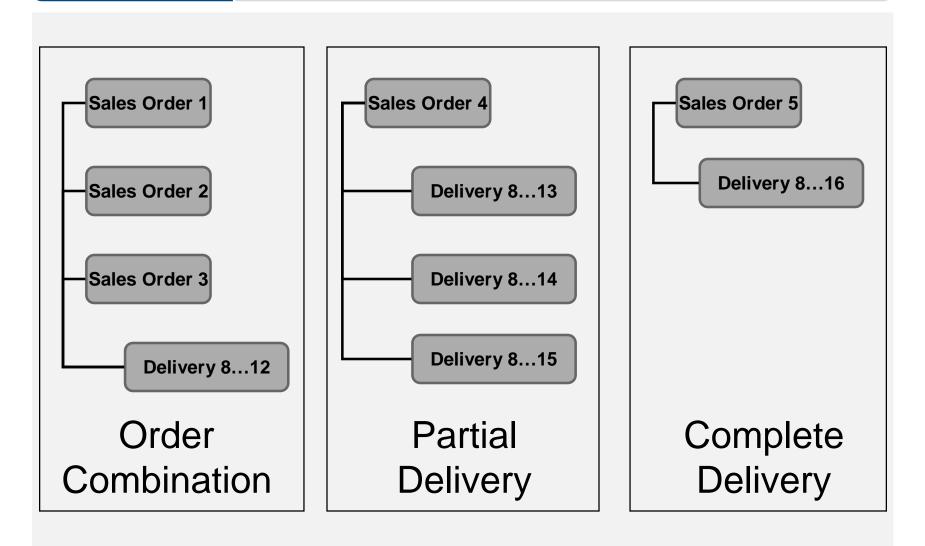
Page 1-81

SAP ERP Shipping & Transportation

- The shipping process begins when you create the delivery document for the sales order. This document controls, supports, and monitors numerous sub-processes for shipping processing:
 - Picking
 - Packing
 - Post Goods Issue
- Integrated with the Material Management (MM) and Finance (FI) modules

SAP ERP Ship

Shipping



SAP ERP Delivery Creation

- Checks order and materials to determine if a delivery is possible delivery block (hold), completeness
- Confirms availability
- Confirms export/foreign trade requirements
- Determines total weight & volume

SAP ERP Delivery Creation

- Generates packing proposal
- Calculates weight and volume
- Checks scheduling
- Considers partial deliveries
- Updates route assignment
- Assigns picking location
- Updates sales order
- Determines batches
- Quality check (if needed)
- Updates sales order

SAP ERP Delivery Document

- The Delivery Document initiates the delivery process and is the control mechanism for this process
 - Picking
 - Packing
 - Loading
 - Posting Goods Issue
- Changes to delivery are allowable products, quantities

SAP ERP Picking

- Quantities based on delivery note
- Assigned date when picking should begin
- Automated storage location assignment
- Supports serial number/lot number tracking and batch management
- Integrated with Warehouse Management (WM)

SAP ERP Loading and Packing

- Identifies which packaging is to be used for specified products (customer preference and UCC-128 considerations)
- Identifies and updates accounts associated with returnable packaging
- Tracks the packed product by container
- Insures weight/volume restrictions are enforced
- All packed items are assigned to the required means of transportation

SAP ERP Goods issue

- Event that indicates the legal change in ownership of the products
- Reduces inventory and enters Cost of Goods Sold
- Automatically updates the General Ledger (G/L) accounts
- Ends the shipping process and updates the status of the shipping documents

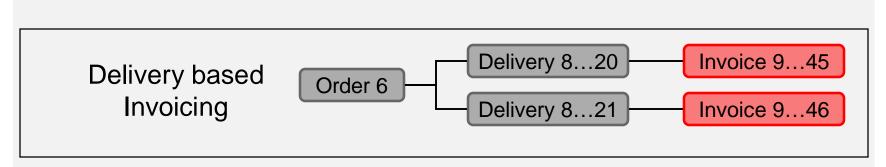
SAP ERP Billing

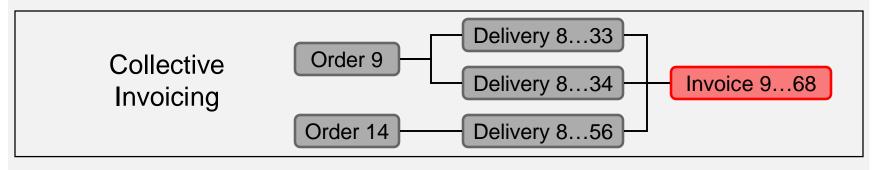
- The billing document is created by coping data from the sales order and/or delivery document.
 - Order-based billing
 - Delivery-based billing
- The billing process is used to generate the customer invoice.
- It will update the customer's credit status.

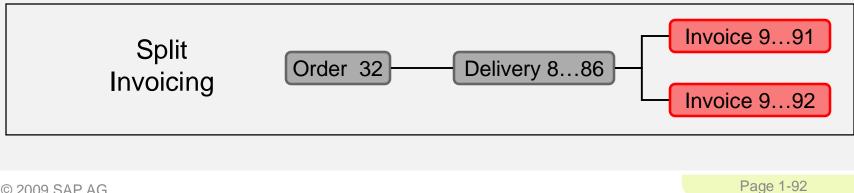
SAP ERP Billing Documents

- The billing document will automatically create a debit posting to your customer subledger account and credit your revenue account.
- It is at this point that the sales process is passed over to Financial Accounting to await payment.

SAP ERP **Billing Methods**







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SAP ERP Payment

- Payment is the final step in the sales order process, this step is managed by the Financial Accounting department.
- Final payment includes:
 - Posting payments against invoices.
 - Reconciling differences between payment and invoice.
- Payment will create a posting clearing the liability in the A/R account and increases your bank account.

Document Flow

Status overview

- 🗗 Current hdr status Current item status ItemNo Material - 🗂 000010 Mekena

> —Total processing —Completeness —Rejection status —Delivery complete

−⊡ Delivery status

Billing status

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📒 000020 Star Lady Bike 28

Completeness

- 🖽 Delivery status

- 🕀 Billing status

Total processing

-Reiection status

-Delivery complete

−⊡ Goods issue status

-Billg doc. complete

Fully delivered

Complete item data

Complete item data

Complete item data

Complete goods issue

Nothing rejected

Fully delivered

Fully invoiced

Fully invoiced

Completed

-Billg doc. complete Complete item data

Complete goods issue

 The document flow and order status feature allows you to find the status of an order at any point in time. The SAP updates the order status every time a change is made to any document created in the customer order management cycle (Order-to-Cash).

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 "Never again did I learn so much in such a short time, because twenty participants made mistakes for me! You cannot make so many mistakes all alone"

SAP Co-founder Klaus Tschira, on his experiences teaching COBOL to clients at IBM.

SAP ERP Sales Order Process Debugging



- Document Flow
 - Gives Order Process Status
- List of Sales Orders (VA05)
 - Tool to Find Order
 - Need student's user id/data set number

SAP ERP Sales Order Process Debugging

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SAP University Alliances

Version 1.0

Authors Bret Wagner Stefan Weidner Stephen Tracy

Materials Management (MM)

Product

SAP ERP 6.0 Global Bike Inc.

Level Beginner

Focus

Cross-functional integration Materials Management

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SAP ERP Functionality

- Inventory Management
- Purchasing
- MRP
- Physical Inventory
- Valuation
- Service Master
- Invoice Verification
- Product Catalogs

SAP ERP Chapter Overview

- Organization Structure
- Master Data
- Procurement Process
 - Procure-to-Pay Process

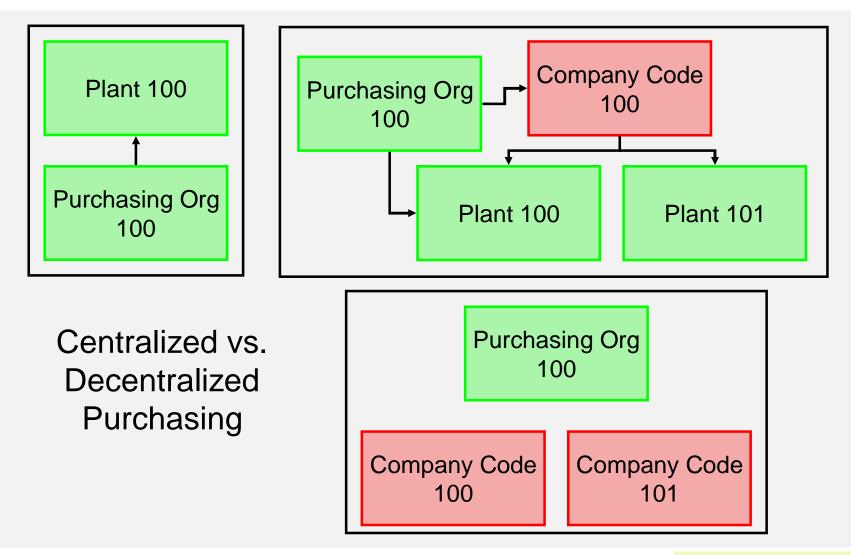
Organizational Structure for Procurement

- Client
 - An independent environment in the system
- Company Code
 - Smallest org unit for which you can maintain a legal set of books
- Plant
 - Operating area or branch within a company
 - i.e. manufacturing facility or distribution facility
- Purchasing Organization
 - The buying activity for a plant takes place at the purchasing organization
- Purchasing Group
 - Key that represents the buyer or group of buyers

SAP ERP Purchasing Specific Structure

- Purchasing Organization
 - Organization unit responsible for procuring services and materials
 - Negotiates conditions of the purchase with the vendors
- Purchasing Group
 - Buyer or group of buyers who are responsible for certain purchasing activities
 - Channel of communication for vendors

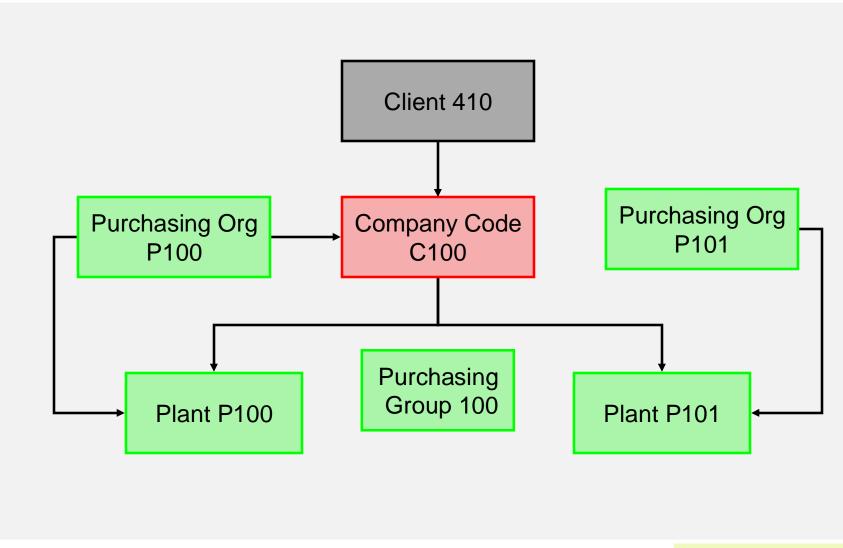
SAP ERP Purchasing Organization / Group



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Page 1-103

SAP ERP Structure for Procurement



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Page 1-104

MM Master Data

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Vendor Master Data

- Vendor Master
 - Contains all the necessary information needed to business with an external supplier
 - Used and maintained primarily by the Purchasing and Accounting Departments
 - Every vendor MUST have a master record

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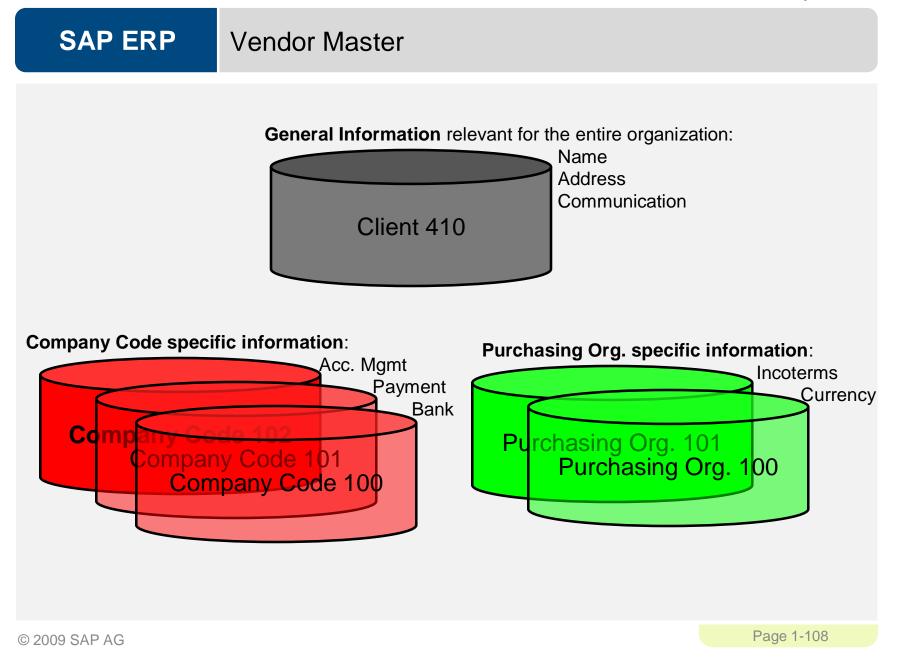
Vendor Master Views

- Client Level
 - Address
 - Vendor Number
 - Preferred Communication
- Company Code Data
 - Reconciliation Account
 - Terms of Payment
 - Bank Account
- Purchase Org Data
 - Purchasing Currency
 - Salesman's Name
 - Vendor Partners

General Data

Company Code Data Financial Accounting (FI)

Purchasing Data Materials Mgmt (MM)

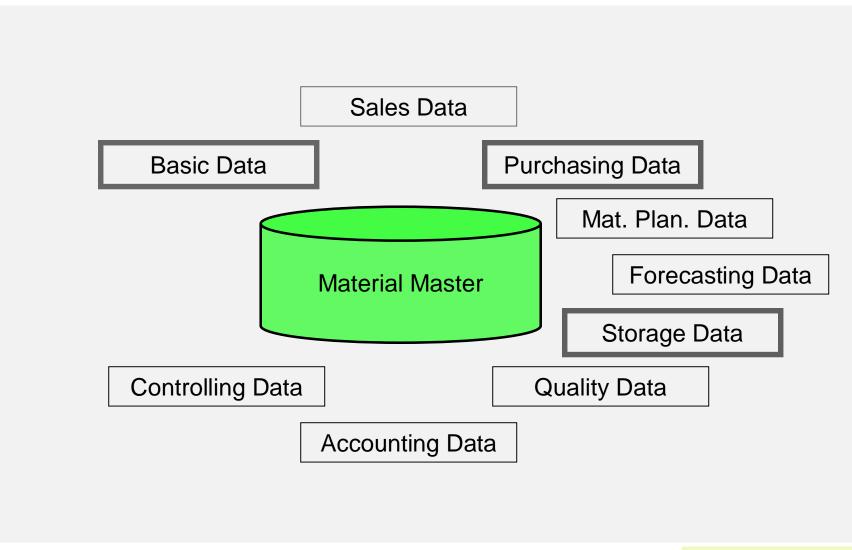


Material Master Data

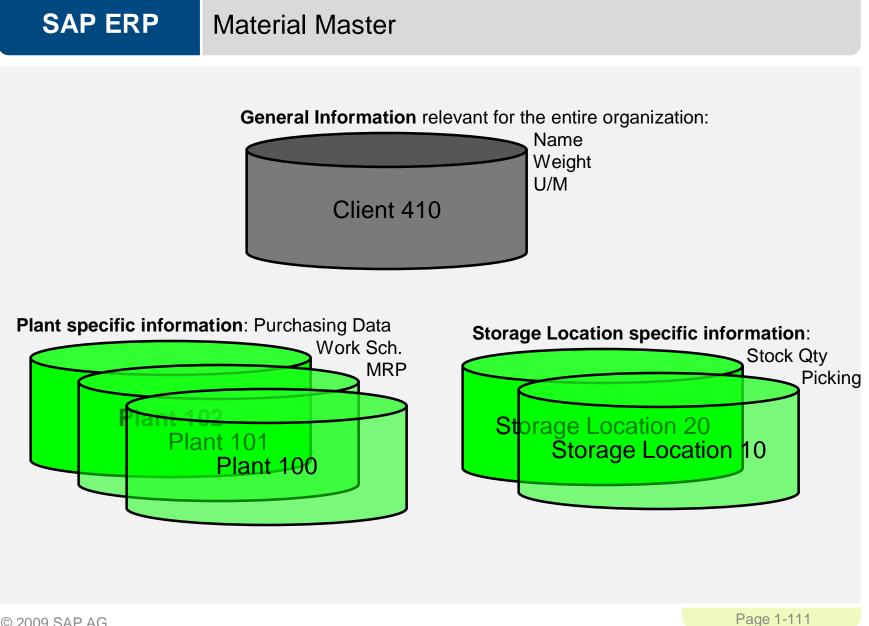
- Material Master
 - Contains all the information a company needs to manage about a material
 - It is used by most components within the SAP system
 - Sales and Distribution
 - Materials Management
 - Production
 - Plant Maintenance
 - Accounting/Controlling
 - Quality Management
 - Material master data is stored in functional segments called Views

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SAP ERP Material Master Views

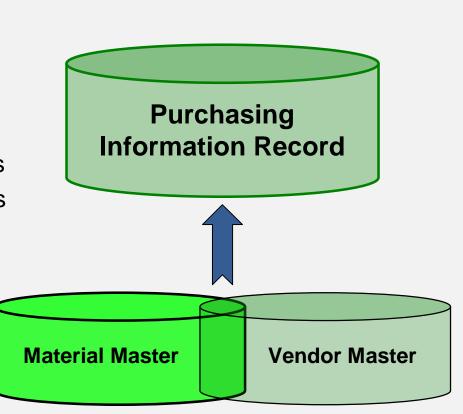


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SAP ERP Purchasing Information Record

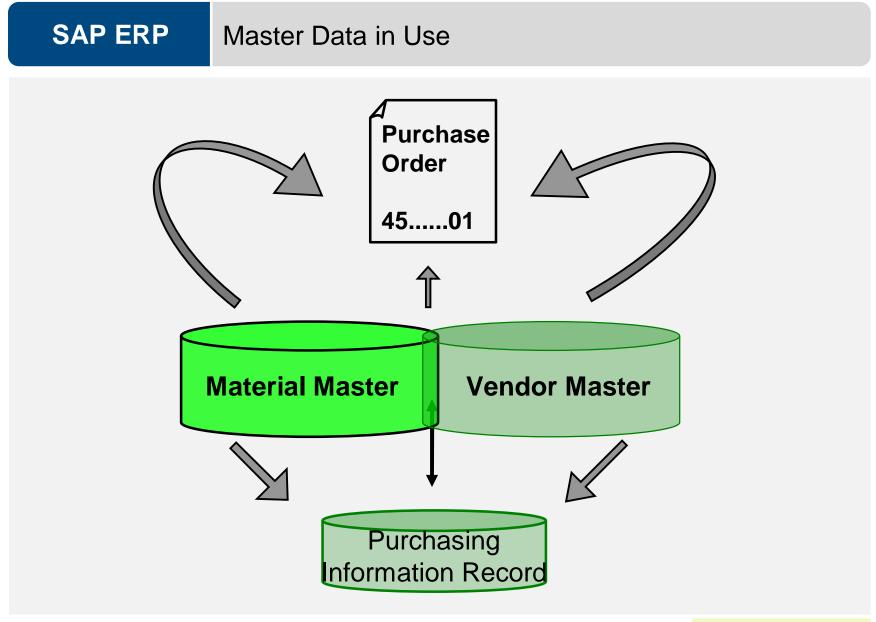
- Framework for Purchase Order
 - Contains the relationship between a vendor and a material
- Can be created:
 - Manually
 - Automatically Quotations
 - Automatically Pur Orders
- Reporting
 - Vendor Evaluation



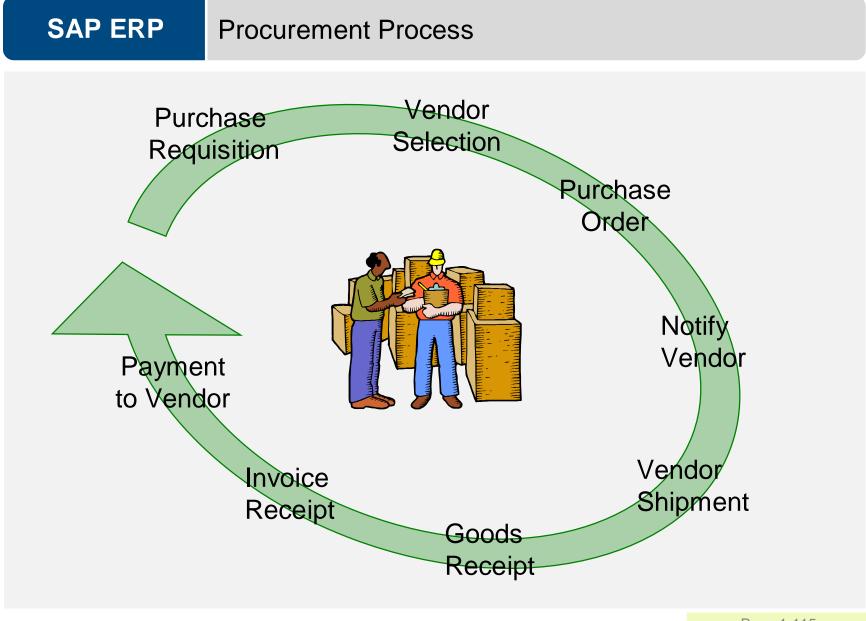
Purchasing Information Record

- Allows buyers to quickly determine:
 - Which vendors have offered or supplied specific materials
- Info Records contain:
 - Data on pricing and conditions
 - Last purchase order
 - Tolerance limits for deliveries
 - Specific lead times
 - Availability periods
 - Vendor Evaluation data
- Serves as default information for Purchase Orders

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SAP ERP 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

SAP ERP 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

SAP ERP Internal Sourcing

- The requisition for materials could be satisfied by sources within our company.
 - It is possible that a plant within your firm could represent a potential source of supply for the material needed (centralized warehouse)
 - If an internal source is identified the requirement is covered by an internal procurement transaction (stock transport order)

SAP ERP Source List

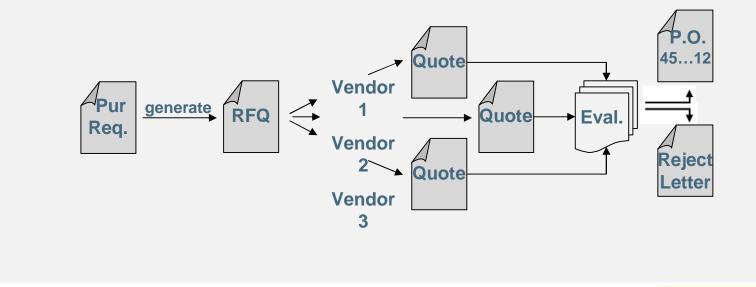
- A source list is a record that specifies the allowed means for procuring a material for a certain plant within a given time period.
 - If the list contains a sole source the system will assign the vendor to the requisition.
 - If several options exist the system will display a list of vendors for you to choose from.
 - If no source has been established the system will revert to search information records and outline agreements.

Outline Agreement

- Requisitions can be satisfied through existing longer-term purchasing agreement
- These agreements are subdivided into:
 - Contracts
 - Consists of items defining the individual materials, material groups, or services with prices and in many cases quantities
 - Quantity
 - Value
 - Scheduling Agreements
 - Total quantity of material is spread over a certain period in a delivery schedule, consisting of line items indicating quantities and their planned delivery date

SAP ERP 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



SAP ERP 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.

SAP ERP 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 subcriteria 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.

SAP ERP Purchase Order

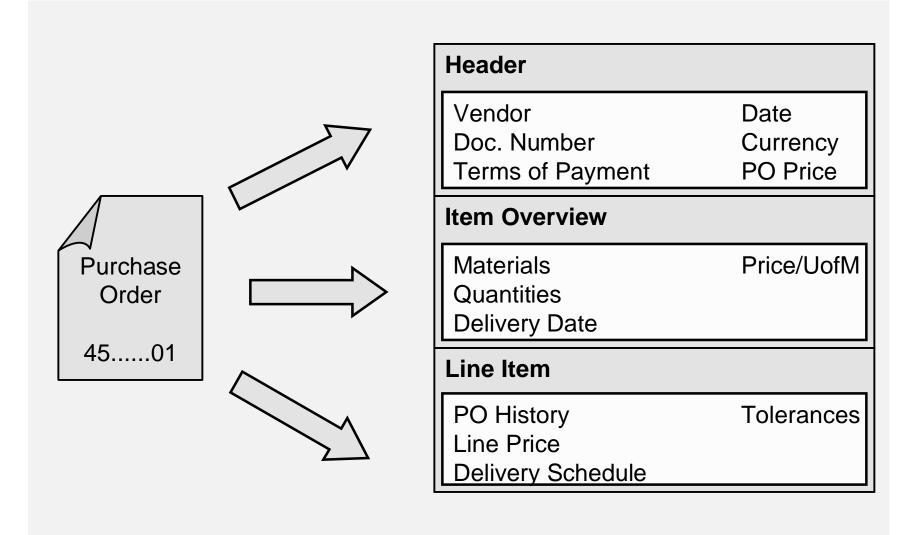
- A purchase order is a formal request to a vendor for a specific material or service under the stated conditions
- Purchase Orders can be created manually
 - Reference a Purchase Order
 - Reference a Purchase Requisition
 - Reference a RFQ/Quotation
 - Without Reference
- Purchase Orders can be create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

SAP ERP Purchase Order

- A purchase order can be used for a variety of purposes, the item category (procurement type)
 defined in the PO will dictate the use of the order and the process
 that the order will follow:
 - Standard
 - Stock or Consumption
 - Services
 - Subcontracting
 - Third-Party
 - Consignment

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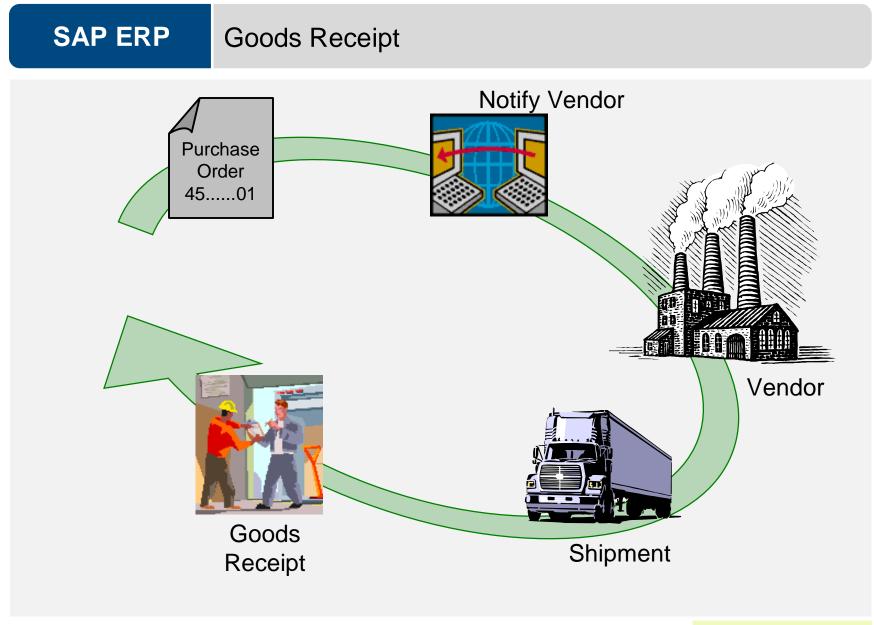
SAP ERP Purchase Order Structure



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SAP ERP Purchase Order Output

- Once a Purchase Order has been created the vendor needs to be notified
 - Printed
 - E-mail
 - EDI
 - Fax
 - XML
- There are a variety of forms that aid in the purchasing process and are generated from the Purchase Order
 - Purchase Order Output
 - Order Acknowledgement Forms
 - Reminders
 - Schedule Agreements



SAP ERP 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

SAP ERP Material Movements

- When a goods movement takes place it is represented by a Movement Type
 - Movement types are three-digit keys used to represent a movement of goods
 - 101 goods receipt into warehouse
 - 103 goods receipt into GR blocked stock
 - 122 return delivery to vendor
 - 231 consumption for a sales order
 - 561 initial entry of stock
- Destinations for Receipt of Goods
 - Warehouse Unrestricted, Quality, Blocked
 - Quality
 - Goods Receipt Blocked Stock

SAP ERP 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)

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

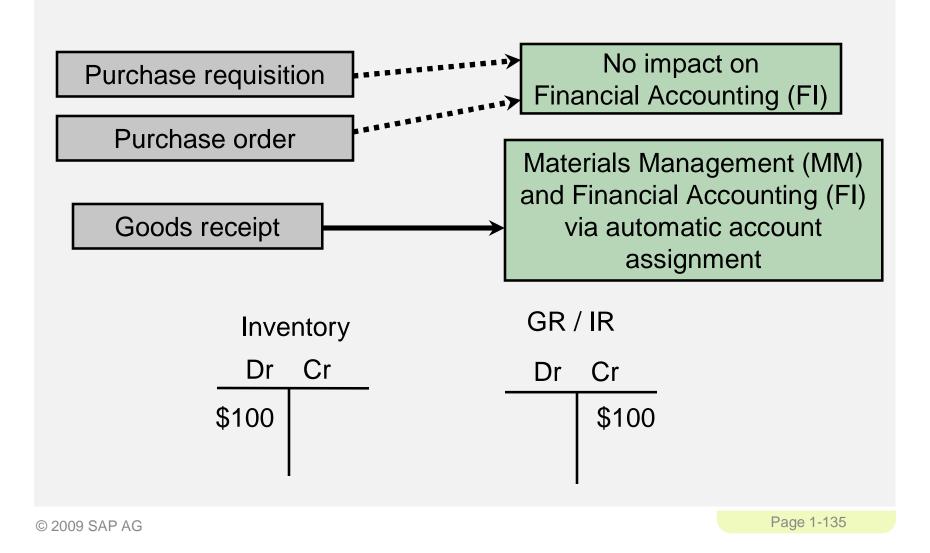


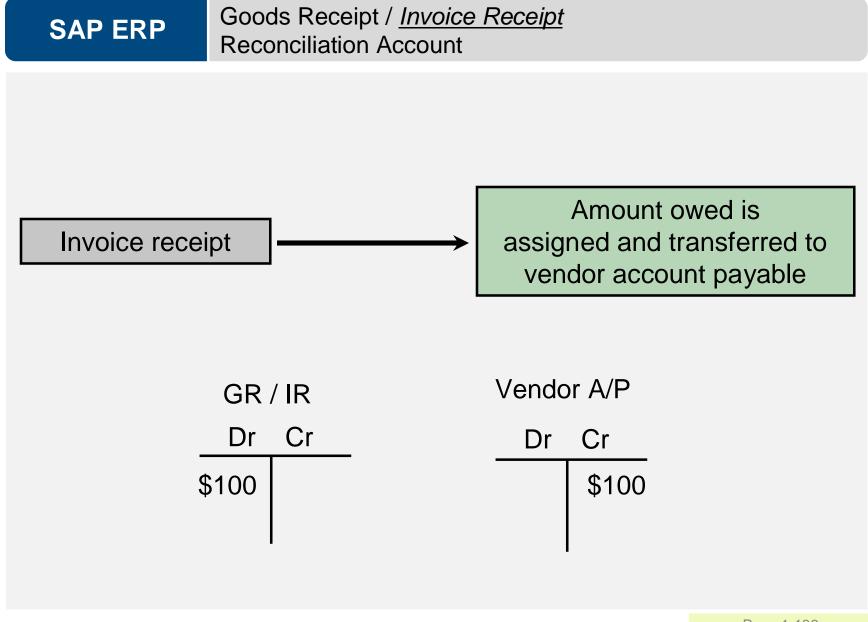
Invoice Processing

- 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 (MAP)
 - Accounting Document is created
- Once the Invoice has been posted the verification process is completed and the payment process is initiated within Financial Accounting

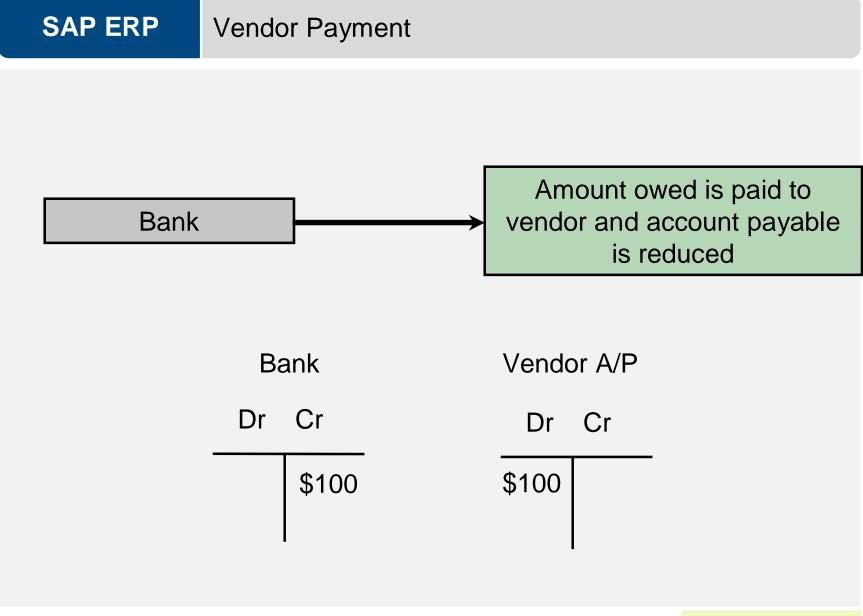
Payment to Vendor

- 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





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SAP ERP FI – MM Integration Point

Goods Receipt			Rec			Payment Program	
Invent	ory	GR	/ IR		\P ndor)	В	ank
Dr \$100	Cr	Dr \$100	^{Cr} \$100	Dr \$100	^{Cr} \$100	Dr	Cr \$100

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SAP University Alliances

Version 1.0

Authors Bret Wagner Stefan Weidner Stephen Tracy

Production Planning & Execution (PP)

Product

SAP ERP 6.0 Global Bike Inc.

Level

Beginner

Focus

Cross-functional integration Production Planning Production Execution

SAP ERP Production Planning

- SAP Divides Production into multiple processes
 - Production Planning
 - Manufacturing Execution
 - Discrete Manufacturing
 - Repetitive Manufacturing
 - KANBAN
 - Production Process Industries
 - Integrated planning tool for batch-orientated process manufacturing
 - Design primarily for chemical, pharmaceutical, food and beverage industries along with batch-oriented electronics

SAP ERP Structure

- Client
- Company Code
- Plants
- Storage Locations
- Work Center Locations

SAP ERP PP Master Data

- Materials
- Bill of Materials (BOM)
- Routings
- Work Centers
- Product Groups

Material Master Record

} 🜩 Additional data 🖁	organiz	ational levels 🚰 Check screen data 🗎	
🔊 MRP 1 🛛 🗟 M	IRP 2	MRP 3 🗸 MRP 4 🚺 🔂 Plant data / stor. 1 🖌 Plant data / st	
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ant 00A2		Bike DC - San Diego	
ieneral Data		/	
Base Unit of Measure	ST	items MRP group	
Purchasing Group	00A	ABC Indicator	
Plant-sp.matl status		Valid from Change Material KB-0013-00 (MRP 1, Trading Goods)	
		_	
IRP procedure VIRP Type	PD	Material KB-0013-00 Mekena	
Reorder Point	ru	Industry sector 1 Retail	
Planning cycle		Material type HAWA Trading Goods Low·level code	
		Created by GTRACY on 01/03/08	
ot size data		Last changed by GTRACY on 01/03/08	
_ot size	EX	Status information:	
Minimum Lot Size	48	No deletion flags or locks	
Fixed lot size		exist	
Ordering costs			
Assembly scrap (%)		Client level:	
Rounding Profile		Status description Created On	Created by L
Jnit of Measure Grp		Changed by	Created by IL
		Purchasing 01/03/2008	
		Basic data 01/03/2008	GTRACY
		Storage 01/03/2008	GTRACY

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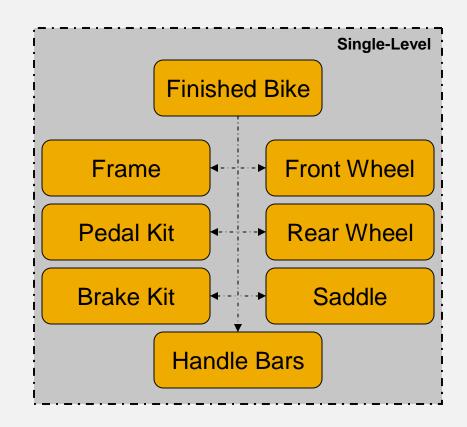
SAP ERP Bill of Materials (BOM)

- List of components that make up a product or assembly
- Frame
- Pedal
- Break Kit
- Front Wheel
 - Front Rim
 - Front Tire
 - Front Tube
- Rear Wheel
 - Rear Rim
 - Rear Tire
 - Rear Tube
 - Gear

- Saddle
 - Post
 - Seat
 - Clip
- Handle Bar
 - Bell
 - Clasp
 - Handle

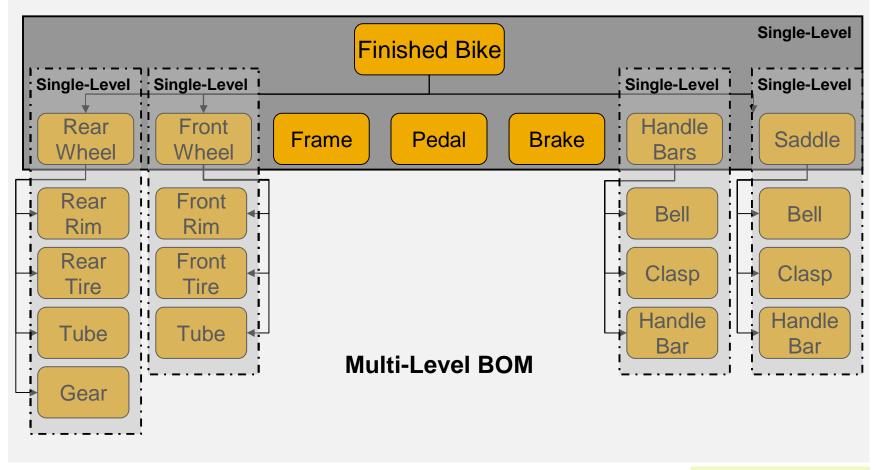
SAP ERP Bill of Materials (BOM)

Single-Level



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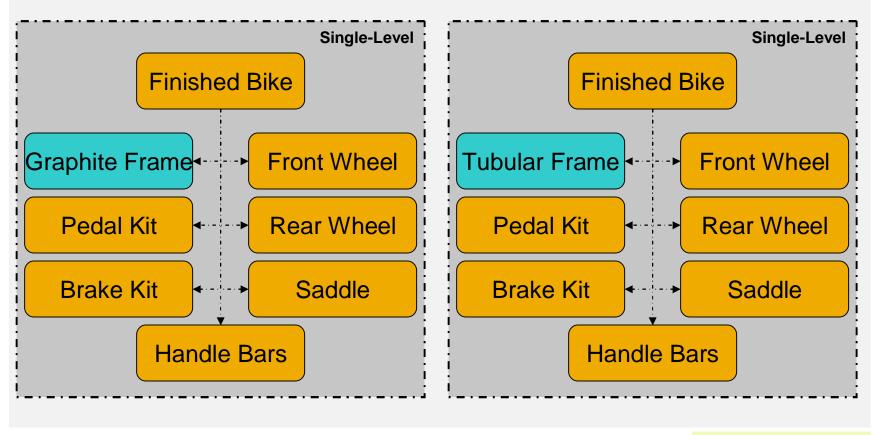
Single-Level vs. Multi-Level



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SAP ERP Bill of Materials (BOM)

- Variant Bill of Material (BOM)
 - Several products with a large proportion of identical parts.



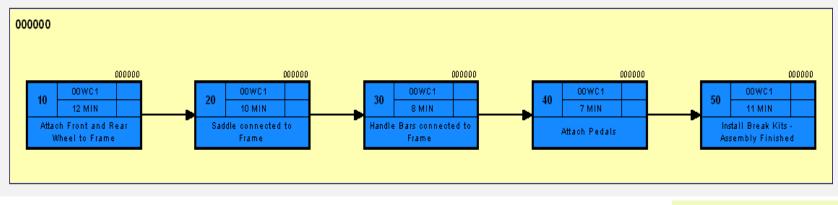
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SAP ERP BOM – Item Categories

- Item Category
 - Stock Item
 - Non-stock Item
 - Variable Material Sheet of steel
 - Intra Item Phantom material process industry
 - Class Item place holder
 - Document Item
 - Text Item

SAP ERP Routings

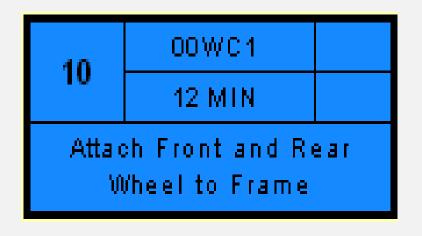
- Routings enable you to plan the production of materials (products).
- Routings are used as a template for production orders and run schedules
- Routing are also used as a basis for product costing.
- Series of sequential steps (operations) that must be carried out to produce a given product
- Routings contain:
 - What, Where, When, How



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SAP ERP Routings

- Routing Operation 10
 - Explains the steps involved in this operation
- BOM Front Wheel, Rear Wheel and Frame
 - Outlines the components that will be consumed in the routing
- Work Center 00WC1
 - Identifies were the operations will take place and identifies the business transaction to be carried

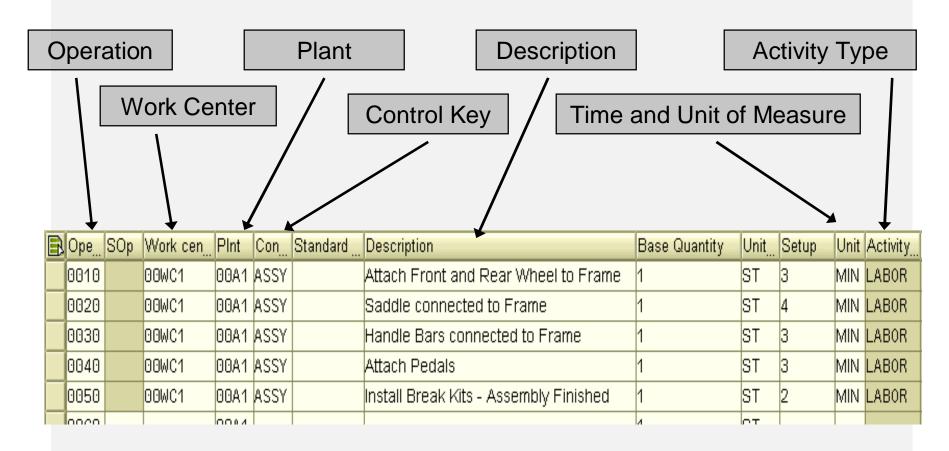


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SAP ERP Rout

Routings

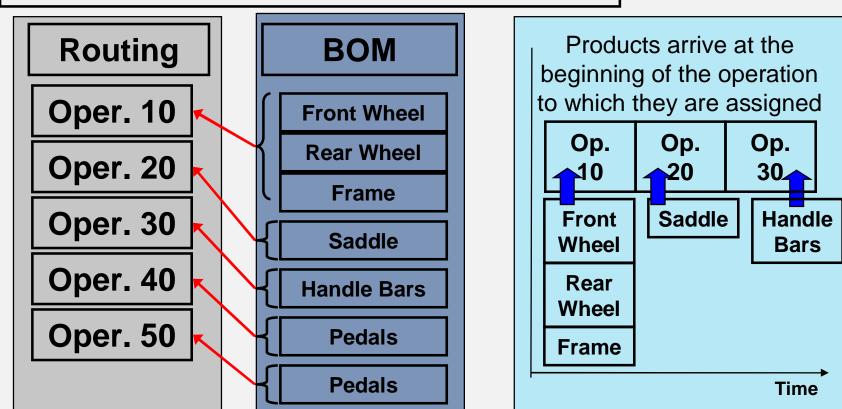
Routing for Finished Bike



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Routing and BOM

Material Master – Finished Bike



Component assignment in routing

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SAP ERP Work Center

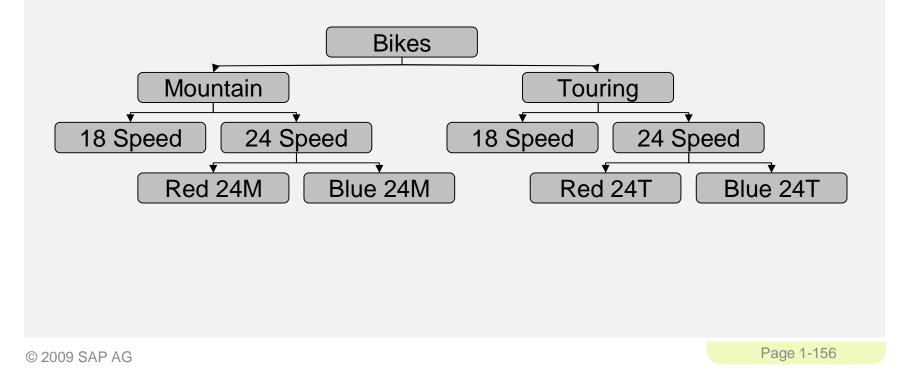
- A location within a plant where value-added work (operations or activities) are performed
 - Work Centers can represent
 - People or Groups of People
 - Johnny Storm, Day Shift 1
 - Machines or Groups of Machines
 - Ink Mixer, Ink Injection Machine
 - Assembly Lines
 - Pen Assembly Line 2
- Work center used to define capacities
 - Labor
 - Machine
 - Output
 - Emissions
- Capacities used in
 - Capacity requirements planning (CRP)
- Detailed scheduling
- Costing

SAP ERP Work Center

- Work centers capture and use the following Resource Related data
 - Basic Data
 - Person Responsible, Location of Work Center
 - Scheduling Information
 - Queues and Move Times (interoperation), Formula Keys
 - Costing Data
 - Cost Center, Activity Types
 - Personnel Data
 - People, Positions, Qualifications
 - Capacity Planning
 - Available Capacity, Formulas, Operating Time
 - Default Data
 - Control Key, Standard Text Key

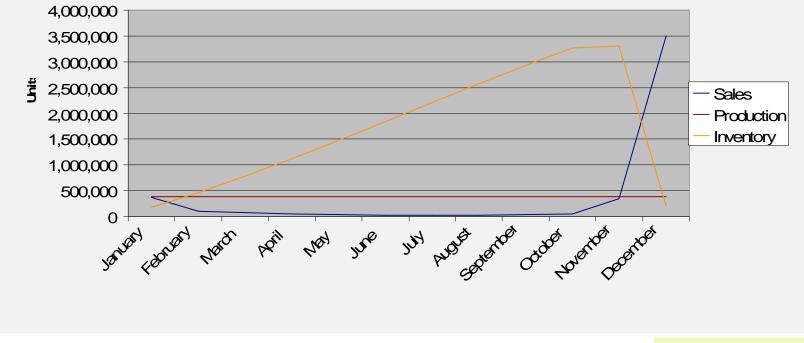
SAP ERP Product Group

- Aggregate planning that group together materials or other product groups (Product Families)
- Multi- or Single- Level Product Groups
 - The lowest level must always consist of materials



SAP ERP Material Planning

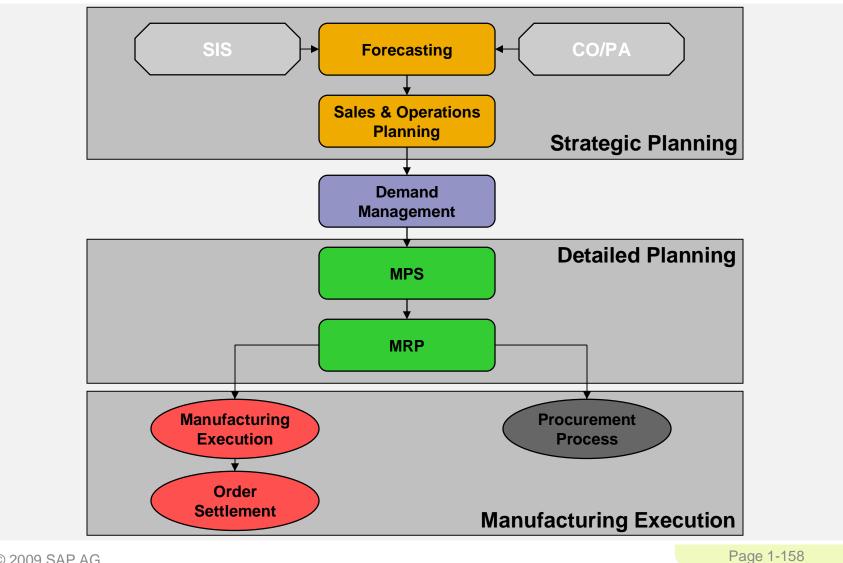
 SOP provides a method for Sales Planning, Production Planning, Feasibility



Sales, Production, Inventory

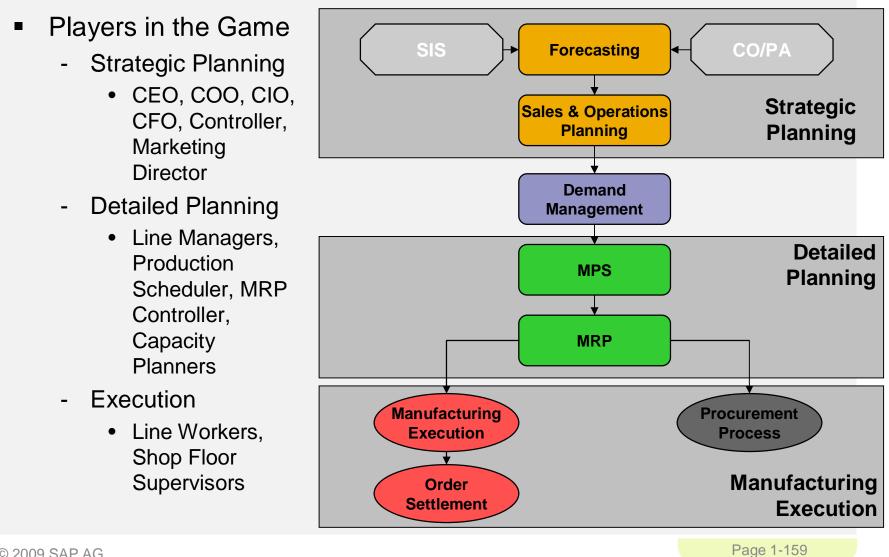
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Production Planning & Execution



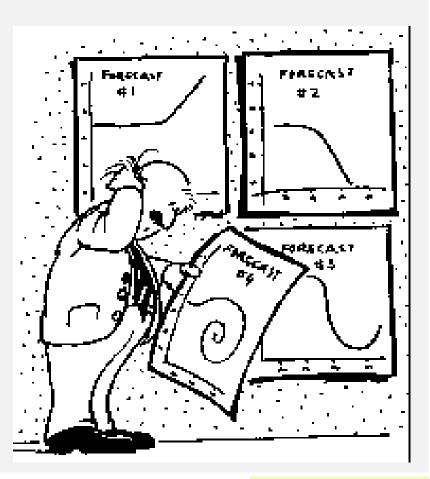
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Production Planning & Execution



SAP ERP Forecasting

- Forecasting is the foundation of a reliable SOP
- Accurate forecasts are essential in the manufacturing sector
- Overstocked & understocked warehouses result in the same thing: a loss in profits.
- Forecasts are ALWAYS WRONG

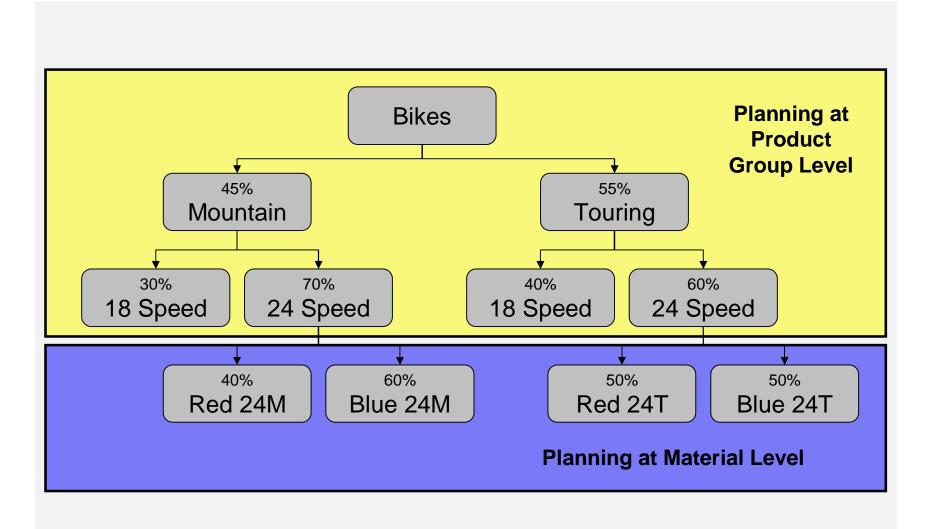


SAP ERP Forecasting

- Forecasting Models
 - Trend
 - Seasonal
 - Trend and Seasonal
 - Constant
- Selecting a Model
 - Automatically
 - Manually

⊡Forecast: Parameters for Automatio	c Model Selection 🛛 🖂
Exponential smoothing, first-order wit	h test for
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Beta factor	0.20
OSeason	
Alpha factor	0.20
Gamma factor	0.20
Periods per season	12
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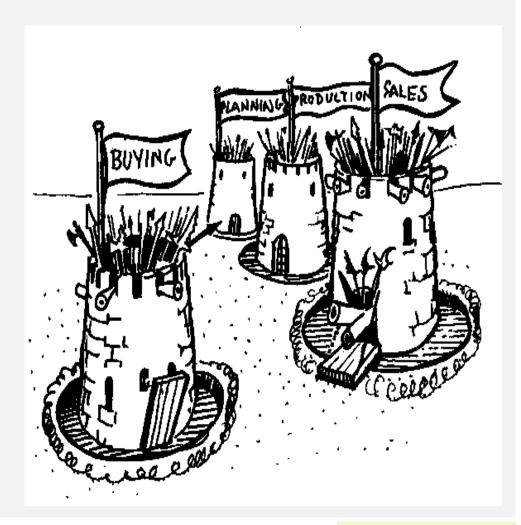
SAP ERP Planning Levels



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Sales and Operations Planning (SOP)

- Information Origination
 - Sales
 - Marketing
 - Manufacturing
 - Accounting
 - Human Resources
 - Purchasing
- Intra-firm Collaboration
 - Institutional Common Sense



Sales and Operations Planning (SOP)

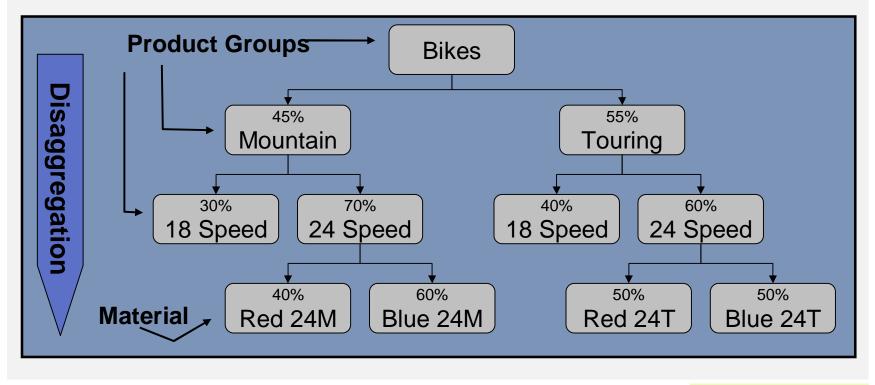
- Flexible forecasting and planning tool
- Usually consists of three steps:
 - Sales Plan
 - Production Plan
 - Rough Cut Capacity Plan
- Planned at an aggregate level in time buckets

Chanace Rough-Cut Plan Chanacetristic Chanacetristic Product group BIKEGRP159 Ridge Front & Terrain Stormer Prod Grp Active SOP- plan individual product group M04/2008 M05/2008 M07/2008 M05/2008 M05/200 M05/200 M05		59 171
BIXEGRP159 Ridge Front & Terrain Stormer Prod Grp tant 59A1 tersion A00 Active version A00 Active version Active SOP: plan individual product group B Branning table Vn Vn M 02/2008 M 03/2008 M 05/2008 M 06/2008 M 09/2008 M 10/2008 Sales EA 130 124 124 137 106 117 136 154 135 Production EA 152 121 124 133 105 117 139 157 131 Stock level EA 22 19 16 20 16 16 19 22 18 Days' supply *** 4 <t< th=""><th>129 158 128 159 17 20 3 3</th><th>56 169 59 171 20 22 3 4</th></t<>	129 158 128 159 17 20 3 3	56 169 59 171 20 22 3 4
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Planning table Un M 02/2008 M 04/2008 M 06/2008	129 158 128 159 17 20 3 3	56 169 59 171 20 22 3 4
Planning table Un M 02/2008 M 04/2008 M 04/2008 M 06/2008 M 07/2008	129 158 128 159 17 20 3 3	56 169 59 171 20 22 3 4
Sales) EA 130 124 124 137 109 117 138 154 135 Production EA 152 121 124 138 105 117 139 157 131 Stock level EA 22 19 19 20 16 16 16 2 18 Target stock level EA 2 19 4	128 158 17 20 3 3	59 171 20 22 3 4
Stock level EA 22 19 19 20 16 16 19 22 18 Target stock level EA	3	20 22 3 4
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SAP ERP Demand

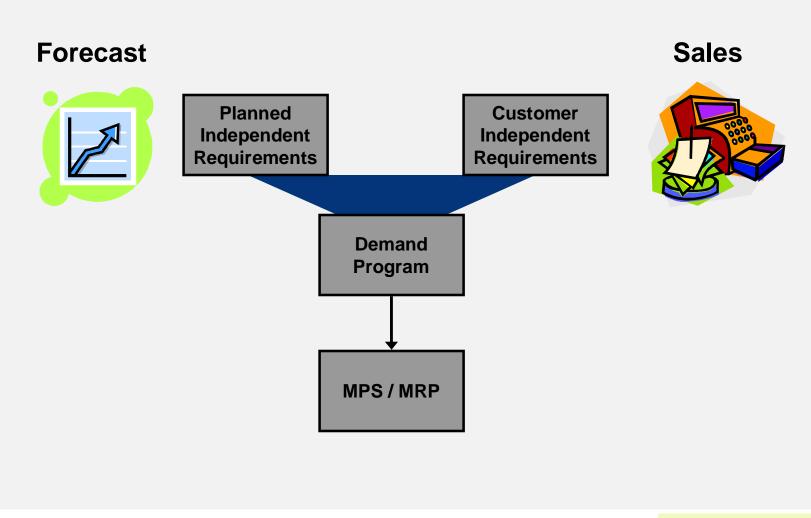
Demand Management

- Link between Strategic Planning (SOP) & Detailed Planning (MPS/MRP)
- The results of Demand Mgmt is called the Demand Program, it is generated from our independent requirements - PIR and CIR



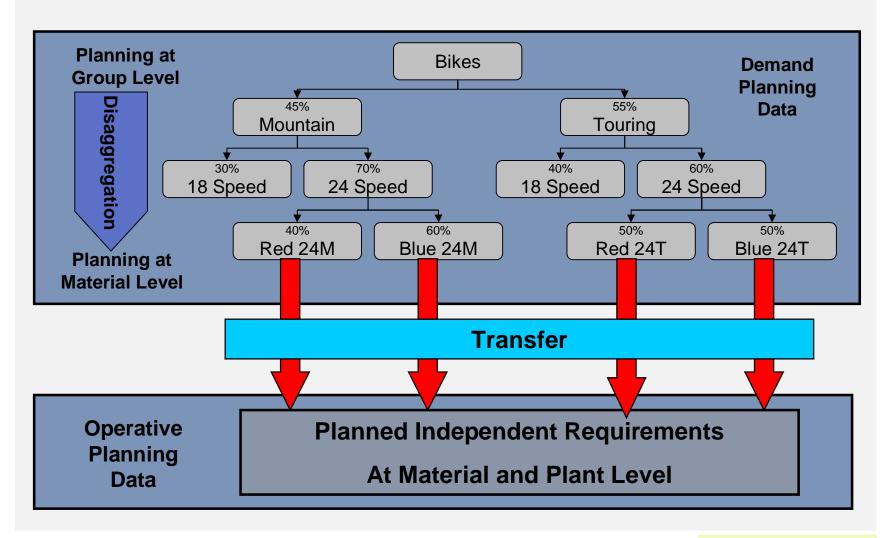
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SAP ERP Demand Management



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Transfer from High Level to Detailed Planning



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SAP ERP Planning Strategies

- Planning strategies represent the business procedures for
 - The planning of production quantities
 - Dates
- Wide range of strategies
- Multiple types of planning strategies based upon environment
 - Make-To-Stock (MTS)
 - Make-To-order (MTO)
 - Driven by sales orders
 - Configurable materials
 - Mass customization of one
 - Assembly orders

SAP ERP Planning Strategy for Make-to-Stock

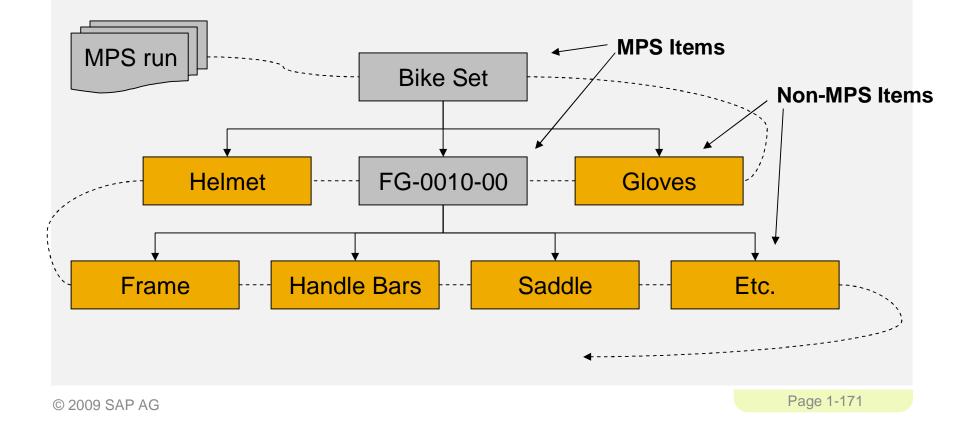
- Planning takes place using Independent Requirements
 - Sales are covered by make-to-stock inventory
- Strategies
 - 10 Net Requirements Planning
 - 11 Gross Requirements Planning
 - 30 Production by Lot Size
 - 40 Planning with Final Assembly

SAP ERP Planning Strategy for Make-to-Order

- Planning takes place using Customer Orders
 - Sales are covered by make-to-order production
- Strategies
 - 20 Make to Order Production
 - 50 Planning without Final Assembly
 - 60 Planning with Planning Material

SAP ERP Master Production Scheduling (MPS)

 MPS allows a company to distinguish planning methods between materials that have a strong influence on profit or use critical resources and those that do not

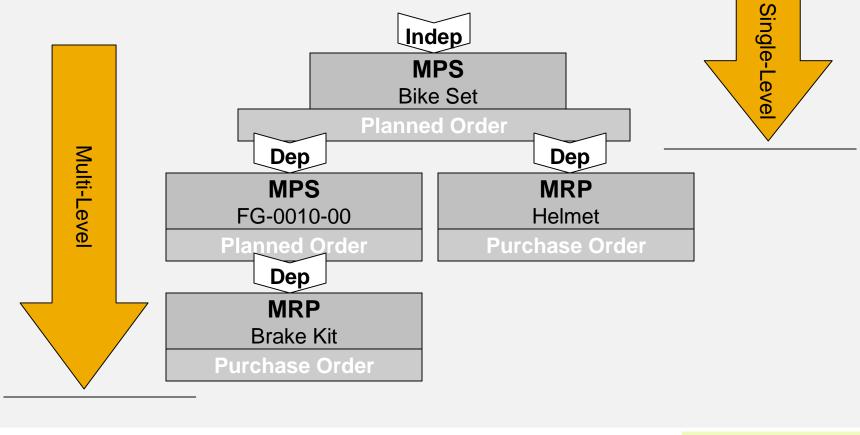


SAP ERP Material Requirement Planning (MRP)

- In MRP, the system calculates the net requirements while considering available warehouse stock and scheduled receipts from purchasing and production
- During MRP, all levels of the bill of material are planned
- The output of MRP is a detailed production and/or purchasing plan
- Detailed planning level
 - Primary Functions
 - Monitor inventory stocks
 - Determine material needs
 - Quantity
 - Timing
 - Generate purchase or production orders

Demand-Independent vs. Dependent

- Independent Demand Original source of the demand.
- Dependent Demand Source of demand resides at another level.

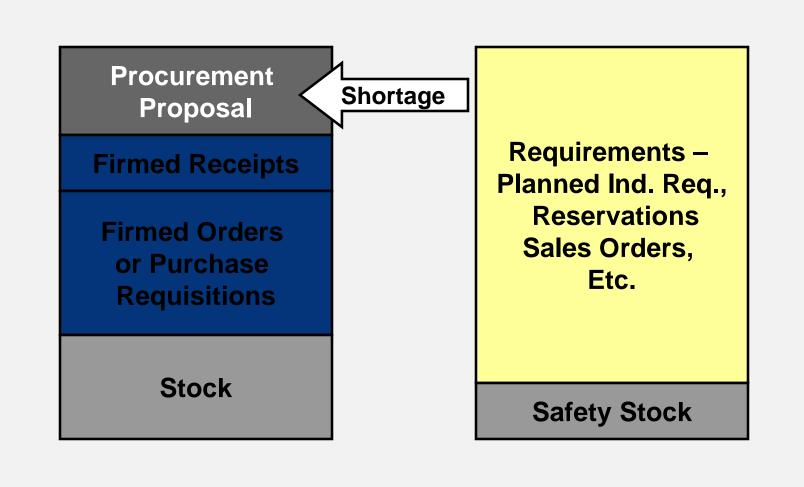


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SAP ERP Material Requirement Planning (MRP)

- MRP is used to ensure the availability of materials based on the need generated by MPS or the Demand Program
 - 5 Logical Steps
 - Net Requirements Calculation
 - Lot Size Calculation
 - Procurement Type
 - Scheduling
 - BOM Explosion

SAP ERP Net Requirements



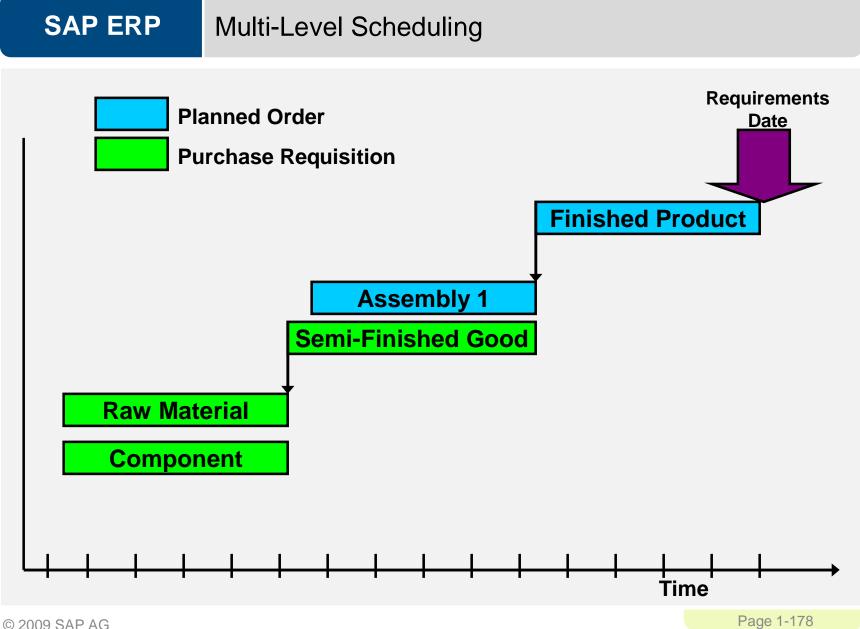
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SAP ERP Lot sizing

- Static
 - Based on fixed values in the Material Master
- Periodic
 - Groups net requirements together from multiple periods
- Optimum
 - Calculates the optimum lot size for a several periods of net requirements

Procurement Type

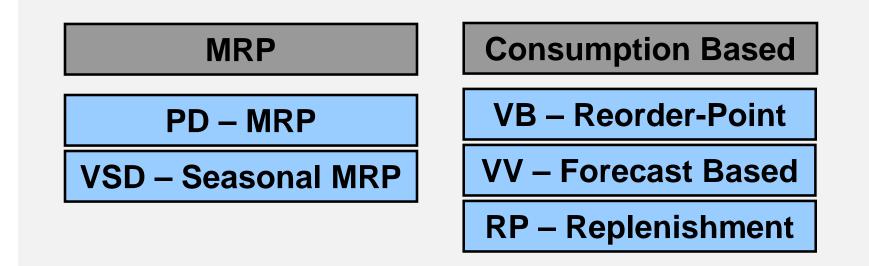
- External Procurement
 - Purchase Requisition
 - Purchase Order
 - Schedule Line
- Internal Procurement
 - Planned Order
 - Production Order
 - Process Order



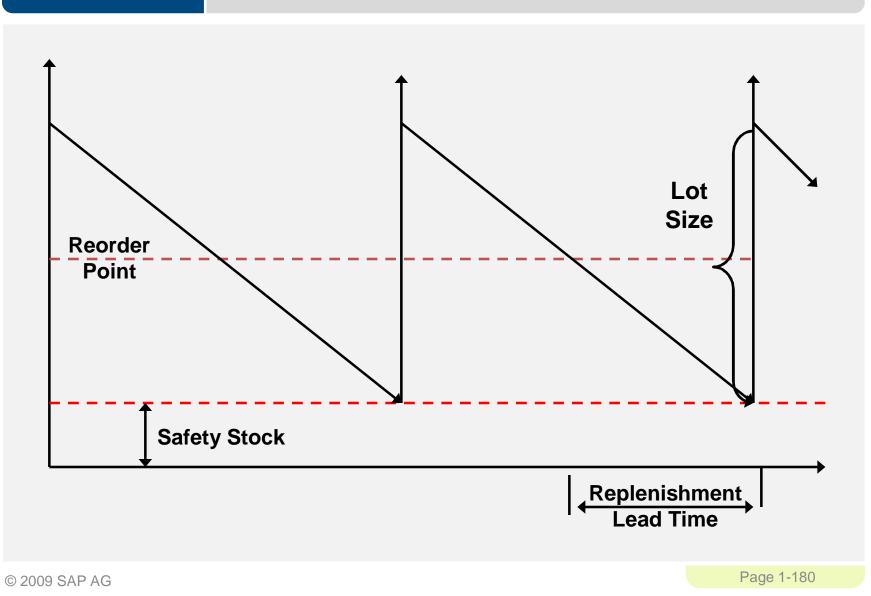
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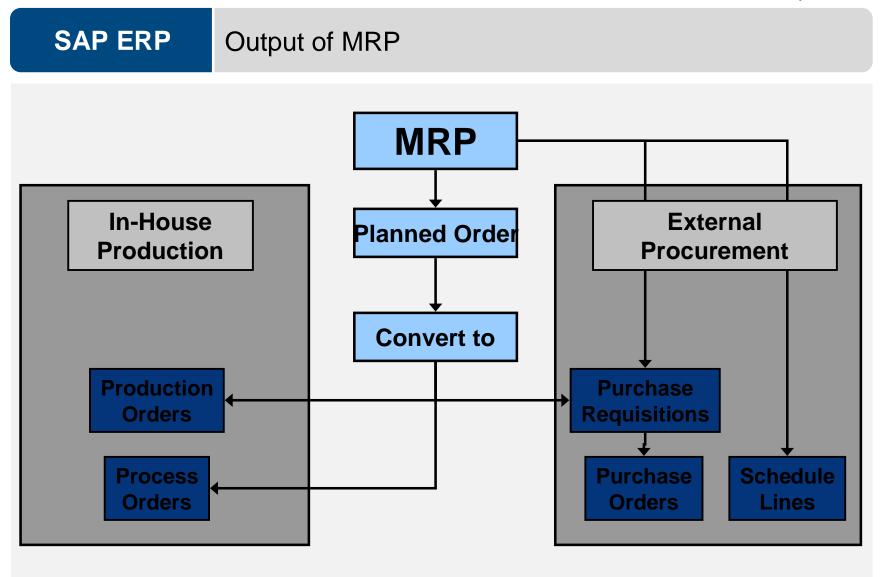
SAP ERP MRP vs. Consumption-Based

 Whether or not a material is planned using MRP or Consumption Based is determined by the MRP Type on the MRP1 screen of the Material Master



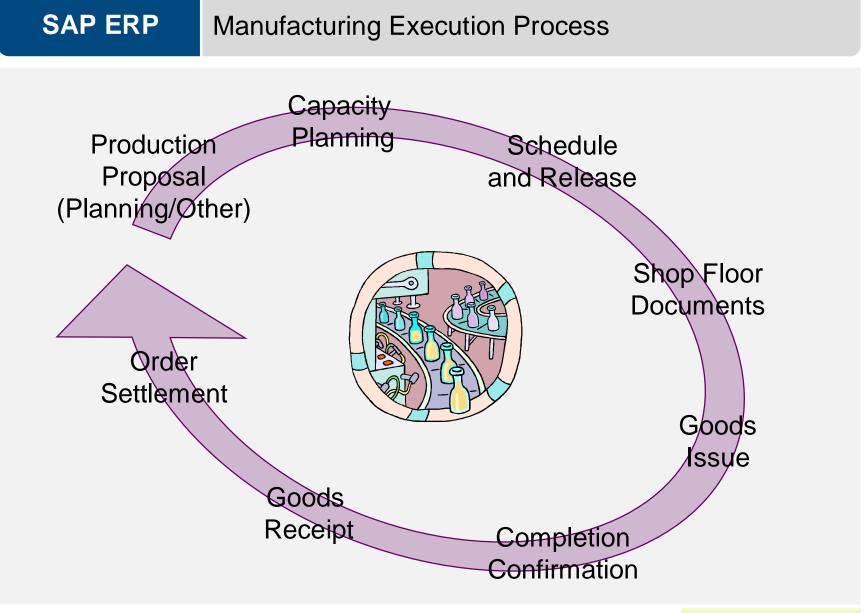
SAP ERP Consumption-Based





SAP ERP Orders, orders, orders

- Planned Order (planning)
 - A request created in the planning run for a material in the future (converts to either a production or purchase order)
- Production Order (execution)
 - A request or instruction internally to produce a specific product at a specific time
- Purchase Order (execution)
 - A request or instruction to a vendor for a material or service at a specific time



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SAP ERP Production Order

- Production orders are used to control production operations and associated costs
 - Production Orders define the following
 - Material produced
 - Quantity
 - Location
 - Time line
 - Work involved
 - Resources used
 - How to costs are settled

SAP ERP

Production Order

	Order Function	ns <u>E</u> dit <u>G</u> oto Header B		m <u>H</u> elp & &D 1D 1D 10 <mark>9</mark>				SAP
		order Create: He						
	M 🗗 🔟 🚰 M	Material 🚰 Capacity 🗌 🗄						
	Order	\$0000000001 📝			Туре	PP01	How	
	Material	FG-0011-60	Ridge Front 60		Pint	60A1		
	Status	RET MACM SETC						
What _						Administration S		
	General /	Assignment 🖌 Goods rece	ipt 🖌 Control data	Dates/qtys Ma	ster data 🖌 Long text	Administration S	AP Event Mgmt	
	Quantities							
	Total Qty	9 3	EA Scrap portio	in	0.00 %			
	Delivered	0	ExpectYield	√ar 0				
			₹ T					
	Dates	BerlinBeter	O ale a duite d	Oractional				
	Finish	BasicDates 04/01/2008 00:00	Scheduled 03/30/2008 1	Confirmd				
Quantity	Start	03/22/2008 00:00	03/23/2008 1		00:00			
	Release	0012212000 00.00	03/22/2008	02/25/2008				
							e Line	
	Scheduling			Floats		7 — IIMe	eLine	
	Туре	2 Backwards	8	Scheduling margin	160			
	Reduction	No reduction carried or	ut	Float bef. prod	1 Workdays			
	Note	No scheduling note		Float after pro.	1 Workdays			
	Driority			Release period	1 Workdays			
	Priority							

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SAP ERP Schedule

- Calculates the production dates and capacity requirements for all operations within an order
 - Determines a Routing
 - Operation specific time lines
 - Material Consumption Points
 - Material Master
 - Scheduling Margin Key (Floats)
 - Work Center
 - Formulas
 - Standard Inter-operation Times

SAP ERP Release

- Two release processes
 - Header Level _
 - Entire order and all operations are released for processing, order is given a **REL** status
 - **Operation Level** -
 - Individual operations within an order are released, not until the last • operation is released does the order obtains a REL status until then it is in a PREL status
- Automatic vs. Manual

SAP ERP Availability Check

- Automatic check to determine whether the component, production resource tools, or capacities in an order are available
 - Can be automatic or manually executed
 - Determines availability on the required date
- Generates an availability log
 - Displays results of the check
 - Missing parts list
 - Reservations that could not be verified

SAP ERP Schedule & Release

- The time between scheduling and releasing an order is used for company checks and any preparation needed for the processing of the order
- Once an order has been released it is ready for execution, we can at this time
 - Print shop floor documents
 - Execute goods movements
 - Accept confirmations against the order

SAP ERP Shop Floor Documents

- Shop Floor Documents are printed upon release of the Production Order, examples would be:
 - Operation-based Lists
 - Time Tickets, Confirmation Slips
 - Component-based Lists
 - Material Withdrawal Slips, Pull List (consumption list)
 - PRT Lists
 - Overview of PRT's used and in which operations
 - Multi-Purpose Lists
 - Operation Control Ticket, Object Overview

SAP ERP Material Withdrawal

- When a production order is created it references a BOM to determine the necessary components to produce the material, it then places a reservation on each of the components
- Upon release of the order (or operation) you can withdraw the reserved materials from inventory
 - Reservation is updated
 - Inventory is updated
 - Costs are assigned to the order as actual costs

SAP ERP Confirmations

- Confirmations are used to monitor and track the progression of an order through its production cycle
 - Confirmation can be done at the operation or order level
- Exact confirmation shortly after completion of an operation is essential for realistic production planning and control
- Data that needs confirmation include
 - Quantities yield, scrap, rework
 - Activity data setup time, machine time
 - Dates setup, processing, teardown started or finished
 - Personnel data employee who carried out the operation, number of employee involved in the operation
 - Work center
 - Goods movements planned and unplanned
 - Variance reasons
 - PRT usage

SAP ERP

Confirmations

Confi <u>r</u> mation <u>E</u> dit	<u>G</u> oto <u>U</u> ser settings En <u>v</u> i	ronment System <u>H</u> elp	
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Enter time ti	cket for productio	on order	
🖷 🛛 🧟 Goods me	ovements 🛛 🖳 Actual data		
Confirmation	4 03		
Order	1000080 Material	EPEN125 Executive Pen	
Oper./activity	0020 Sequence	0 Place Cartridge in Barrel	
Sub-operation			
Capacity cat.	Split		
Work center	WC125 Plant	P125 Assembly Line	
Confirm.type	Partial confirmation	🗄 🔽 Clear open reservations	
💾 Quantities	3		
	To confirm Ur	nit	
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Scrap			
Rework			
Reason for Var.			
📔 Activities			
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	12 Time ID	Ben Grimm	
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	To confirm	Already confirmed Planned for conf.	
	🛅 Date 🕒 Time	🛅 Date 🕒 Time 🌆 Date 🕒 Time	
Execution start	11/04/2005 09:00:00	00:00:00 11/08/2005 10:20:19	
Execut. Finish	11/04/2005 13:00:00	00:00:00 11/08/2005 12:33:59	
Forecast finish	00:00:00	00:00:00	
Supplemer	nt		
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SAP ERP Goods Receipt

- Acceptance of the confirmed quantity of output from the production order into stock
 - Effects of the Goods Receipt
 - Updates stock quantity
 - Updates stock value
 - Price stored for future valuation changes
 - Production order is updated
 - Three documents are created
 - Material document
 - Accounting document
 - Controlling document

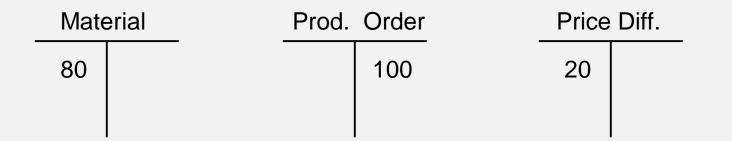
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SAP ERP Order Settlement

- Consists of settling the actual costs incurred in the order to one or more receiver cost objects
 - Receivers could include: a material, a cost center, an internal order, a sales order, a project, a network, a fixed asset
- Parameters for Order Settlement
 - Settlement Profile
 - Specifics the receivers, distributions rules and method
 - Settlement Structure
 - Determines how the debit cost elements are assigned to the settlement cost elements
- Settlement Rule
 - Automatically assigned on creation of order, the parameters are used to define this rule
 - Has one or more distribution rules assigned to it
 - Distribution rules defines: cost receiver, settlement share, settlement type

SAP ERP Order Settlement

- Settling a Production Order to Stock
 - Debt posting is made to the Production Order with the value of the material
 - Difference between the debt posting and credit posting is posted to a price difference account



**Material Price determine by the quantity produced times the Standard Price in the Material Master.

SAP ERP Order Settlement

- Costs analyzed
 - Primary
 - Materials
 - External Processing
 - Secondary
 - Production, Material, and Administrative Overhead
 - Labor
- Cost Analysis Reporting
 - Calculate and analyze planned costs, target costs, and actual costs of the production order.
 - Calculate and analyze variances

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SAP ERP **Order Settlement** <u>Report Edit Goto View Extras Settings System Help</u> 0 🛯 🕔 📙 | 😋 😧 | 📮 🕼 🎎 | 巻 🍄 🎝 🏖 | 🛒 🖉 | 🕲 📑 Orders: Actual/Plan/Variance 🏗 On/off 🚯 🏪 🔢 🚺 🕱 🔍 🎦 📥 🛜 🛗 Column 🔣 🔍 🕨 🕺 😤 8월 8월 8월 Orders: Actual/Plan/Variance Date: 11/07/2005 06:17:49 Page: 2 / 2 Order/Group 1000075 000001000075 2005 Fiscal year Period 1 - 11 Cost elements P1an Var.(abs.) Actual Var.(%) 720100 Raw Mat. Consp / Exp 75,900 75,900 800100 Labor 122,800 122,800 7 Costs 198,700 198,700 731100 Prod Ord Settle Exp 8,300 8,300 1 8,300 8,300 Settled costs 731100 Prod Ord Settle Exp 207,000-207,000-P Deliveries to stock 207,000-207,000-8,300-8,300 100.00-Balance

SAP ERP

Order Status

 Order Function	ns <u>E</u> dit <u>G</u> oto Header Environment Sy a		0		
	l uction order Display: Heade Material 않 Capacity 읆 르 볼 몲 @				
Order Material Status General	1000002 FG-0011-60 REL CNF DLV PRC GMPS MACM SE Assignment Goods receipt Control data		Pint	PP01 60A1	
Quantities Total Qty Delivered Dates Finish Start Release	91 EA Scrap po 91 ExpectYie BasicDates Scheduled 03/06/2008 00:00 03/04/2008 02/25/2008 00:00 02/26/2008 02/25/2008 00:00 02/25/2008	eld∨ar 0 Confirmd 17:00 02/25/2008	0.00 %		System status Stat Text REL Released CNF Confirmed DLV Delivered PRC Pre-costed GMPS Goods movement posted
Scheduling Type Reduction Note Priority	2 Backwards No reduction carried out No scheduling note	Floats Scheduling margin 16 Float bef. prod Float after pro. Release period	30 1 Workdays 1 Workdays 1 Workdays		 MACM Material committed SETC Settlement rule created
					Active Status

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