## **Consignment and VMI**

Solution Management SCM SAP AG





#### 1. Consignment

- 1.1. Consignment stock processing in ERP
- 1.2. Consignment stock in APO

#### 2. VMI

- 2.1. Vendor Managed Inventory versus Consignment Inventory
- 2.2. Using Vendor Managed Inventory with Consignment Inventory
- 2.3. VMI scenarios

#### 3. APO VMI enhancements

- 3.1. Parallel consigned and standard VMI scenario
- 3.2. VMI master data integration
- 3.3. Automatic ATP check of TLB shipments published to ERP
- 3.4. Transfer of in transit consignment special stock (with ERP EhP4)
- 3.5. Integration of consignment special stock in a third party logistic provider scenario

## **Customer Consignment - Characteristics**



- The customer delegates responsibility for efficient stock management of a material to a supplier who has superior knowledge and experience.
- The supplier manages the stock of a specific material at the company's site. The supplier can be in charge of the replenishment task.
- The supplier owns the consignment material until the material is taken out of stock for use in production or consumption or the customer decides to post the material in his own stock.
- The customer pays the supplier after the material is taken out of the consignment stock.



## Consignment stock processing in ERP (1)



- Consignment goods are stored at the customer location but owned by your company.
- The customer pays for these goods when they are removed from consignment stock.
- Billing is based on actual quantity taken.
- Consignment stock is part of your valuated stock in R/3. It is managed as special stocks in inventory management and assigned to specific customers.

There are four main transactions for consignment processing:

- Creating a consignment fill-up (posting)
- Creating a consignment issue
- Creating a consignment pick-up
- Displaying a consignment return

(posting to customer stock owned by company)

- (consignment issue order)
- (repost from customer stock to warehouse)
- n (customer returns to consignment stock)

## Consignment stock processing in ERP (2)



#### **Consignment fill-up**

- Consignment fill up is used to supplement the customer's consignment stock.
- Goods issue of the appropriate stock is posted from the unrestricted-use stock to consignment stock (special stock). The goods remain in the possession of the vendor.
- When you ship consignment stock to the customer, you record the transaction by creating a consignment fill-up order (order type KB).

#### **Consignment issue**

- Consignment issue enables the customer to take consignment goods from the special stock for his own use or to sell.
- Consignment issue involves removing the goods from the special stock and making it the property of the customer.
- When the customer removes consignment stock to use or sell, you record the transaction in the system by creating a consignment issue order (order type KE).



## Consignment stock in APO



- In APO the consignment stock is managed as special stock with an own ATP category CD (Consignment Stock) and in a VMI scenario assigned to the customer location. Additional information about the owner is given in the Stock tab of the product view.
- This enables you to keep track of the consignment stock and use it within planning processes (e.g. SNP heuristic).

Product View: APO_VMI_MAT_1@QPT002, Planning Version 000									
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Product AP0_VMI_MAT_10QPT0 APO VMI Material 1 Location CUVMI_SOLDT00QPT002 VMI Sold-To Acct Assignment DaysSupply [D] 97,61- A ReceiptDS [D] 97,61- A Elements Periods Quantities Stock Pegging Overview Product Master ATP									
Product/Location	S Version AcAssgtObj	Rec/Req	Surp/short Unit	Cat. Text	CatDscrptn	Stock Type Owner			
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## SAP APO Vendor Managed Inventory (VMI)



## Allows efficient management of the supply chain by managing customer inventory replenishment with automated collaboration

#### Features

- Embed customers' warehouses in the planning process
- Use sophisticated SAP Advanced Planning and Optimization (APO) planning capabilities
- Build efficient truck loads
- Create sales orders automatically in SAP ERP based on confirmed SAP APO stock transfer orders
- Display in-transit inventory
- Use standard IDocs to integrate customer data, e.g. inventories and daily stock movements from EDI

#### Key Benefits

- Increase visibility of real customer demand
- Improve usage of stock along the supply chain and better transport planning
- Reduction of stock-outs, rush orders and supply bottlenecks
- Improve cooperation with customers
- Improve delivery service level
- Lower safety stocks

## Vendor Managed Inventory versus Consignment Inventory



Consignment inventory	Vendor Managed Inventory (VMI)
is about	is about
ownership of stocks	replenishment planning
<ul> <li>The supplier owns the inventory placed at the customer's location.</li> <li>The customer carries out replenishment planning and communicates the requirements to the supplier.</li> <li>The customer may have little concern to minimize the supplier's inventory investment (no optimization of consignment inventory).</li> </ul>	<ul> <li>The supplier determines replenishment requirements for the customer and automatically creates the customer's purchase orders.</li> </ul>

#### VMI can be used in combination with consignment inventory:

The supplier can simultaneously meet his customer's replenishment requirements and minimize his own inventory investment.

## **VMI** Models



#### Both types are commonly Called Vendor Managed Inventory (VMI)

0	Inventory buffer	financially	y owned' by	<u>/ customer</u> but <u>'</u>	planned' by	<u>/ Supplier</u>
	-					

With or without 3PL 0

#### **Supplier Planned** Inventory

(sometimes also called standard VMI)

- Ownership transfers to customer when supplier replenishes the inventory buffer 0
- Prevalent in the Consumer Product Retailer relationship 0
- Supported by both SNC-RR and APO some differences in capabilities 0

#### **Supplier Owned** and Planned Inventory

(sometimes also called Hub VMI or Consigned VMI)

- Dedicated inventory buffer maintained by supplier for the customer close to 0 customer site
- Inventory buffer 'financially owned' by Supplier and 'planned' by Supplier 0
- Financial ownership passes to customer when they pull from the VMI 0
- Inventory can be located at customer site or a 3PL designated by customer 0
- Customer sends consumption forecast. Supplier plan replenishments 0
- **Prevalent in almost all supplier->customer relationships in HT** with the possible exception of Consumer Electronics-Retailer relationship. 0

## Using Vendor Managed Inventory with Consignment Inventory



- VMI and Consignment can be combined, for example if the VMI customer is afraid to lose control of his purchasing activities (creating purchase orders)
- VMI and consignment inventory working together
  - VMI planning in SAP APO ensures the most profitable overall replenishment plan for the entire supply chain
  - SAP ERP consignment inventory configuration handles the implications of maintaining customer consignment inventory and the financial settlement upon receipt of the appropriate "consumption signal" from the customer



## Standard APO VMI scenario





## Consigned VMI scenario

(No in transit consignment special stock)





## Consigned VMI scenario (with CFM)

#### (No in transit consignment special stock)





![](_page_14_Picture_0.jpeg)

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### Prerequisites for VMI enhancements (ERP EhP4)

![](_page_15_Picture_1.jpeg)

- In order to be able to execute an integrated scenario with the listed enhancements it is necessary to turn on the business switch on ERP side.
- Please check transaction SFW2 ⇒ Business Function APO\_VMI\_CONS

<b>Business Function</b>	า		
晶形			
🕄   🗋 🛃   📇 🛱 😽 Business Function Definition		🗈 🌐 🕅 🌮 Selected 🛛 📔 Details	Docu.
Business Function	Short Text	Type of Business Function	Doc. exists
APO_VMI_CONS	VMI Consignment	Enterprise Business Function 📲	

### Parallel consigned and standard VMI scenario (1)

![](_page_16_Picture_1.jpeg)

#### VMI agreements can have both consigned as well as non-consigned (standard) flavors.

- With SCM 7.0 APO VMI supports both a parallel consigned and standard VMI scenario for different products shipped to the same customer.
  - ⇒ A shipment split is executed before TLB shipments are published to ERP.
- Prerequisites to enable a parallel processing in APO:
  - 1. Consignment checkbox on the product specific transportation lane has to be set for the product in a consigned scenario.

This is used as an indicator to trigger the split in the TLB run.

6 2 3 4 3 4 6 6 8 1 2 3 4 4 4 5 4 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7													
Display of Transportation Lane PL0001@E4A000 -> CUCUSTVMI@E4A000													
2	🖉 遇 Header Data 🛛 😤 Product-Spe	cific Means of Transport 🛛 🖶 Trsp. Serv.Provide	r 🛛 🔔 Total P	rocurement / Ti	ransport	6						-	
		VI   2 (3 1 2 1 4 1										$\frown$	
	Product-Specific Transportation Lane												
	Product Number	Product Short Description	Start date	End Date	Min. LS	Max. LS	Proc.Prio.	Dist.Prio.	Proc.Costs	Cost Func.	Subcontr. C	onsignmr	i S
	VMI_CONS_DEMO0@E4A000	TEST MATERIAL FOR VMI Consignment DEMO	01.04.2008	31.12.2008	0,000	0,000	0,00	0,00	0,00				Т
	VMI_CONS_DEMO1@E4A000	TEST MATERIAL FOR VMI Consignment DEMO1	01.04.2008	31.12.2008	0,000	0,000	0,00	0,00	0,00			~	
	VMI_CONS_MATERIAL@E4A000	TEST MATERIAL FOR VMI Consignment	01.03.2008	31.08.2008	0,000	0,000	0,00	0,00	0,00			V	
	VMI_CONS_MATERIAL2@E4A000	TEST MATERIAL FOR VMI Consignment 2.Edt.	01.03.2008	31.08.2008	0,000	0,000	0,00	0,00	0,00				
	VMI_TEST_CONS0@E4A000	TEST MATERIAL FOR VMI Consignment	01.04.2008	31.12.2008	0,000	0,000	0,00	0,00	0,00				Т
	VMI_TEST_CONS1@E4A000	TEST MATERIAL FOR VMI Consignment	01.04.2008	31.12.2008	0,000	0,000	0,00	0,00	0,00			V	Γ

2. Sales document type (e.g. OR) and additionally the consignment sales document type (e.g. KB) have to be maintained on ERP side to identify and do a right mapping to the relevant ERP sales order types.
Change View "VMI: Maintain Sales Area and Order Type": Overview Will: Maintain Sales Area and Order Type

IMG  $\rightarrow$  Integration with other mySAP components  $\rightarrow$  Advanced Planning and Optimization  $\rightarrow$  Application Specific Settings

 VM:
 New Entries
 Image: Constraint Sales Area and Order Type

 VMI:
 Maintain Sales Area and Order Type

 Customer
 Name

 J6\_VMI\_CUS
 Jobbagy's VMI customer

 J6\_VMI\_CUS
 Jobbagy's VMI customer

and Enhancements  $\rightarrow$  Settings and Enhancements of Sales Orders  $\rightarrow$  Settings for Vendor Managed Inventory (VMI)  $\rightarrow$  Define Customer/Plant Assignment and Configure ATP Check

### Parallel consigned and standard VMI scenario (2)

![](_page_17_Picture_1.jpeg)

- In a parallel consigned and standard VMI scenario it will be possible to display a consignment indicator for the TLB shipment in the TLB UI.
- The TLB UI is enhanced with a consignment indicator in order to support the VMI planner when creating the relevant shipments. The information is derived from the transportation lane setting.

TLB Interactive Planning											
<b>任</b>											
	3	🛃 🛃 🎲 TLB	From PL00	01	@E4A000	To C	UCUSTVMI@	E4A000 Mr	ıs/Trn	s. 00	)0
Selected Objects			8 🗳 🕹 🕹	<u>þ</u> i	] 4⊞0	Ь					[
Ty. APO Source Ty. APO Destination Loc.		TLB Shipments									
		Order Number	Category Text	1	Consignme	nt Ship. Date	Ship. Time	Delivery Date	D	E	1
		0000000291	TLB:VMI-SO	1		17.03.2008	08:00:00	17.03.2008	18		•
		0000000292	TLB:VMI-SO	1	х	18.03.2008	08:00:00	18.03.2008	18		
		0000000293	TLB:VMI-SO		Х	17.03.2008	08:00:00	17.03.2008	18		
		0000000294	TLB:VMI-SO			20.03.2008	08:00:00	20.03.2008	18	e	
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		0000000296	TLB:VMI-SO			19.03.2008	08:00:00	19.03.2008	18	Ē	
Colortion profile		0000000302	TLB:VMI-SO			19.03.2008	08:00:00	19.03.2008	18		
		0000000303	TLB:VMI-SO		Х	20.03.2008	08:00:00	20.03.2008	18	Ē	
		0000000308	TLB:VMI-SO			19.03.2008	16:19:04	20.03.2008	16	Ē	
		0000000309	TLB:VMI-SO			19.03.2008	16:20:58	20.03.2008	16	ε	
		0000000310	TLB:VMI-SO			19.03.2008	16:24:47	20.03.2008	16	E	
		0000000311	TLB:VMI-SO			19.03.2008	16:31:42	20.03.2008	16	E	
		0000000313	TLB:VMI-SO			20.03.2008	09:27:50	25.03.2008	09	9	
		0000000314	TLB:VMI-SO			20.03.2008	10:05:47	25.03.2008	10		
		0000000315	TLB:VMI-SO	Ι		20.03.2008	10:10:24	25.03.2008	10	흔	
		000000316	TLB:VMI-SO	1	×	20.03.2008	10:28:41	25.03.2008	1(		-
					J						
<u>■■ A &amp; A A 及 X</u>		AGM		5	1 <b>#</b> 1						

### VMI master data integration

![](_page_18_Picture_1.jpeg)

- With SCM 7.0 in APO VMI you are able to automatically create location products in the ship-to location ("customer location").
- The customer material info record in ERP carries customer, material and customer material. This info record is used as reference to create the location products in APO.
- A new CIF integration model object for customer material has been created.
- After activating the CIF model the ship-to location product in APO will be created and the customer material number is populated.

Create Integ	ration Mo	del					
🕒 🍪 🔁 🖶							
Model Name Logical System APO Application	CUST_LOC A9PCLNT001 MASTER						
Material Dependent C	) Dbjects			General Selection Options	for Materials		
Materials		Plants		Material		to	
MRP Area Mati		MRP areas	<b>=</b>	PInt		to	\$
Customer Mat.	🛛 🖻 🔵		_	Mati Type		to	<b>\$</b>
AMPI	/			PlantSpec. Mtl Stat		to	\$
🗌 Planning Matl	_₽	🗌 Supply Area		MRP Ctrir		to	<b>S</b>
ATP Check				MRP Type		to	<b>-</b>
🗌 Extern. Plant	€			ABC Indicator		to	<b>-</b>
Contracts	ት ት	SchedAgreements	\$	Customer Material			
			/	Customer		Το	
PDS (ERP)	\$	Пвом	_₽ (	Distr. Channel		То	
				Sales Org.		To	
Storage Loc.Stk	➡	Transit Stock	<b>-</b>				
Sales Ord Stock	\$	Project Stocks	4				
Cust. Spec. Stk	\$	🗌 Vend. Spec. Stk	4				

## Automatic ATP check of TLB shipments published to ERP

![](_page_19_Picture_1.jpeg)

With SCM 7.0 APO VMI it is possible to perform an automatically triggered ATP check of the TLB shipment in ERP after the TLB shipment is published and before the relevant sales order gets saved in ERP.

Prerequisite: Flag the ATP indicator on ERP side

IMG → Integration with other mySAP components → Advanced Planning and Optimization → Application Specific Settings and Enhancements → Settings and Enhancements of Sales Orders → Settings for Vendor Managed Inventory (VMI) → Define Customer/Plant Assignment and Configure ATP Check

#### Change View "VMI: Maintain Sales Area and Order Type": Overview

🦻 New Entries		
VMI: Maintain Sa	les Area and Order Type	
Customer	Name	ATP Ind. Co
JG_VMI_CUS	🗃 bagy's VMI customer	КВ
JG_VMI_CUS	Jobbagy's VMI customer	КВ
JG_VMI_CUS	Jobbagy's VMI customer	КВ
JG_VMI_CUS	Jobbagy's VMI customer	КВ

# Transfer of in transit consignment special stock (with ERP EhP4)

![](_page_20_Picture_1.jpeg)

- With ERP < ERP 6.0 EhP4 consignment special stock is updated *immediately* when goods issue is executed for consignment fill-up sales orders.
- With ERP EhP4 an additional step is introduced which will enable to model in transit consignment special stock (while product is transported to customer consignment stock). This object will be transferred to APO.
  - In APO this information is stored as stock object in order to be able to view it a separate key figure and integrate it in the VMI planning process.
- The new value is displayed in Consignment Stock In Transit key figure. It is included in the 9AVMI standard planning book.

I	Unit	2008.04.07	2008.04.08	2008.04.09	2008.04.10	2008.04.11	2008.04.12	2008.04.13	2008
🔍 Total Demand	ST								
Distribution Receipt (Planned)	ST								
Distribution Receipt (Confirmed)	ST								
Distribution Receipt (TLB-Confirmed)	ST	5							
In Transit	ST								
Production (Planned)	ST								
Production (Confirmed)	ST								
Manufacture of Co-Products	ST								
🔍 Total Receipts	ST	5							
Consignment Stock In Transit	ST		13						
Stock on Hand	ST	48	48	48	48	48	48	48	
Supply Shortage	ST								
Safety Stock	ST								
Order ItmNo. Schd.Ln.No Avail/ReqD	Avai	I/ReqT Fix Reα∕	ReqQty Origin.Q	ty Total Qty BUr	n Category Cate	egory Description	Product	Number	De
80000168 000010 0000 2008.04.08	13:2	7:00	3	0 3 ST	EV VMI	Consignment in	Transit JG_VMI_	MAT1@E4A000	PL
80000169 000010 0000 2008.04.08	13:2	7:00	10	0 10 ST	EV VMI	Consignment in	Transit JG_VMI_	MAT1@E4A000	PL

# Integration of consignment special stock in a third party logistic provider scenario

![](_page_21_Picture_1.jpeg)

- If the special stock partner has been defined for carrying out consignment stock processing by means of a third party rather than the customer, you can use the partner function for special stock partner in ERP SD.
- In order to enable this scenario within APO VMI a new BAdI on the ERP side has been introduced (VMI\_SPECIAL\_STOCK\_PARTNER). In the BAdI the consignment stock will be mapped to the corresponding customer location and the result would be an update of the stock in the corresponding customer location in APO.
- If the situation occurs that the third party logistic provider (3PLP) is holding the same part number on behalf of multiple end customers there would be the need to create additional customer masters for the 3PLP.

Enhancement Implementation EI_VMI_SPECIAL_STOCK_PARTNER Display									
← →   🎾 🕄 🖻   🎜 📉 🖷 🚭   🏭 🚍 💷 🔳   🗶 🖻 🛤 🕺									
Enhancement Implementation EI_VMI	_SPECIAL_STOCK_PARTNER	Active							
Demodies History Technical Debils	Ful Indexentation Flowents								
Properties History Technical Details	Enn. Implementation Elements								
	Badl Implementation	VMI_SPECIAL_STUCK_PARTNER	Documentation						
BAdl Implementations Description	Description	Implementation: BADI for VMI - third part	ty logistic provider						
VMI_SPECIAL_STOCK Implementation: BADI	f 🗌 Default Implementation								
Implementing Clas	Example Implementation								
	🗌 🔲 "Actve" not switchable throi	ugh Custom.(IMG)							
Enhancement Implementation       EI_VMI         Properties       History       Technical Details         Implementations       Description         Implementations       Description         Implementation       EADI         Implementation       Classifier	Enh. Implementation Elements Badl Implementation Description Default Implementation Example Implementation "Actve" not switchable throu	Active VMI_SPECIAL_STOCK_PARTNER Implementation: BADI for VMI - third part	Documentation ty logistic provider						

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![](_page_22_Picture_1.jpeg)

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