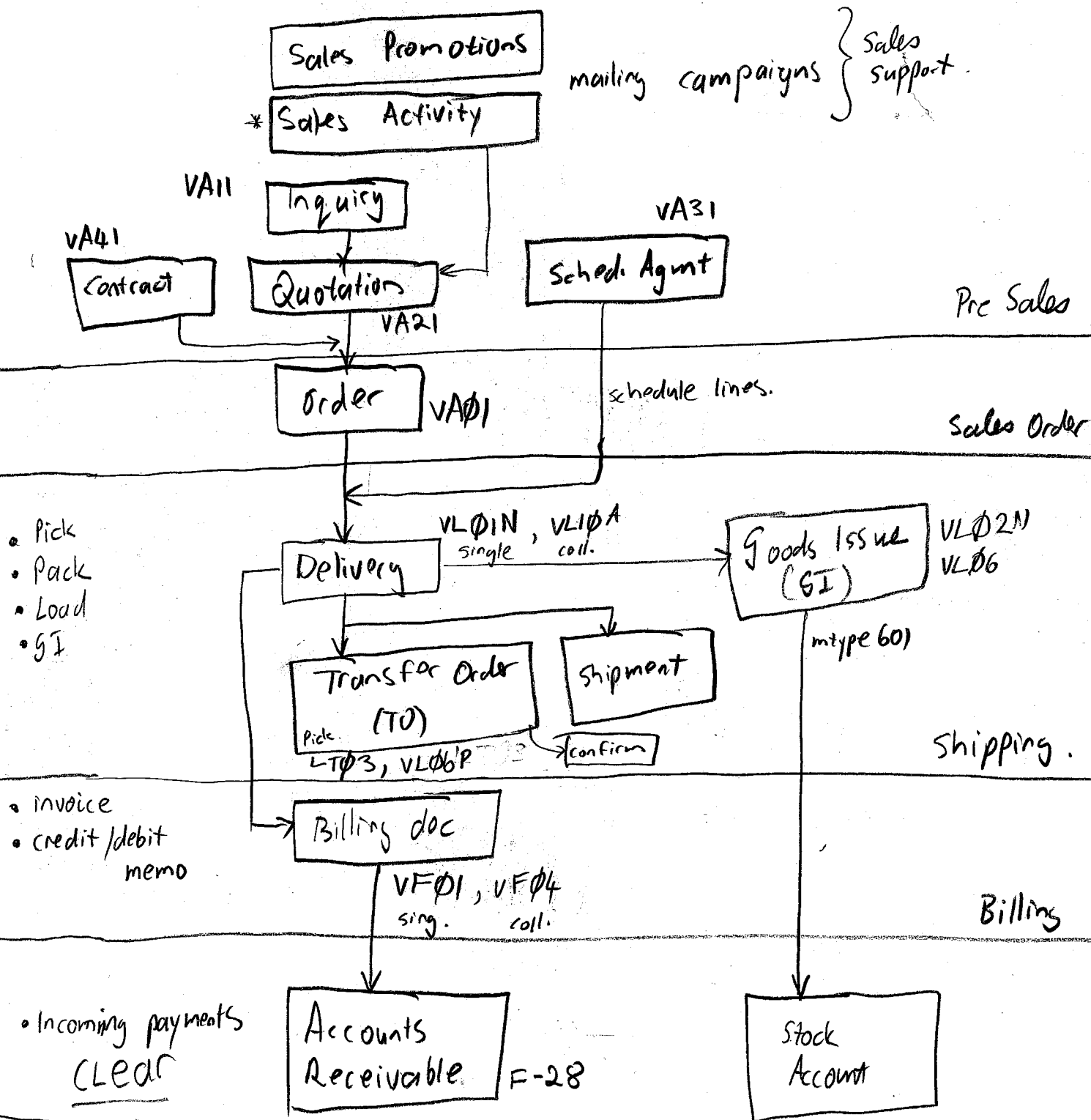
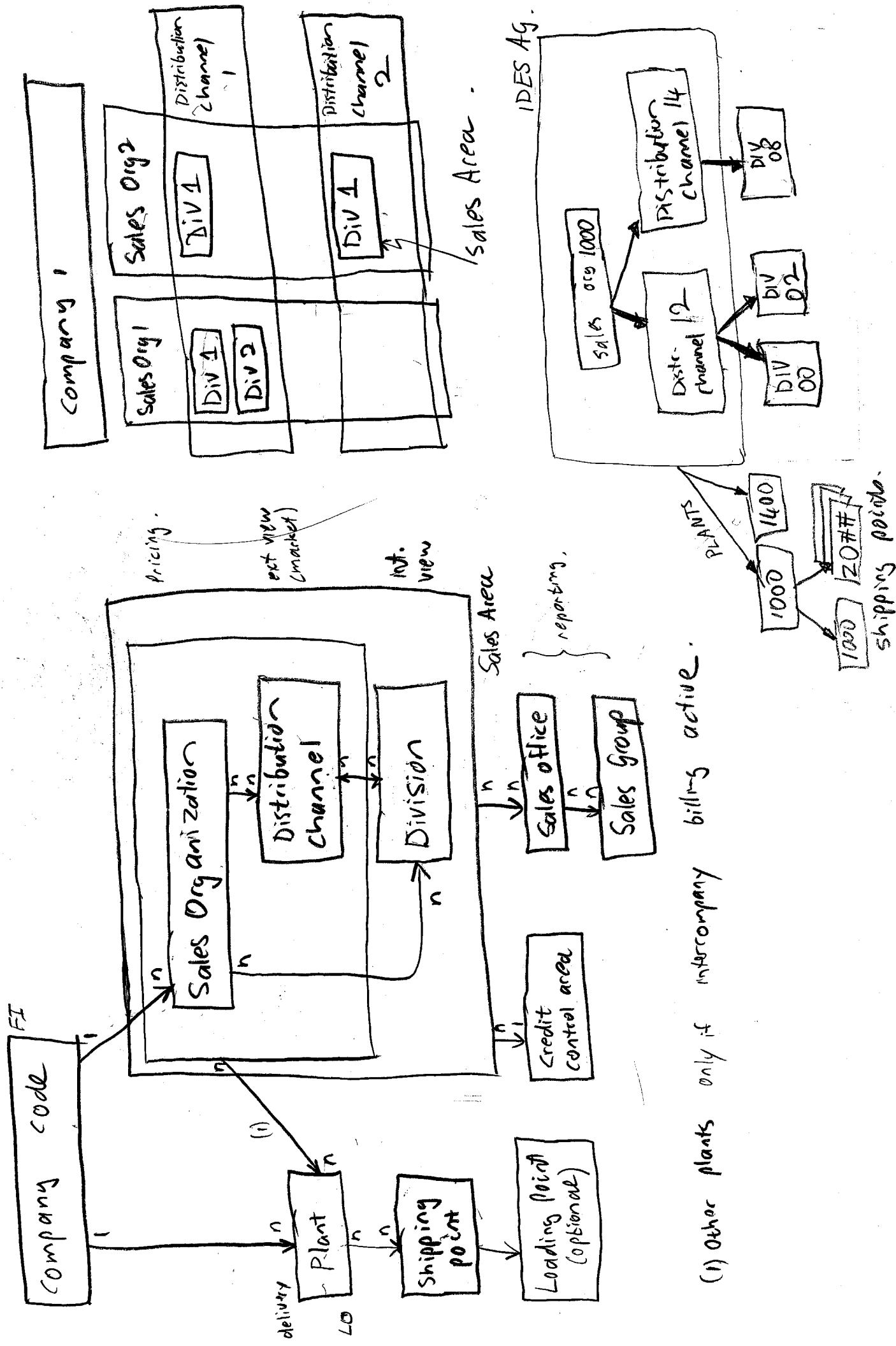


"SD Processing Cycle"



master data.
 customer xd01
 cust/mat info → vd51

Enterprise Structure - SD

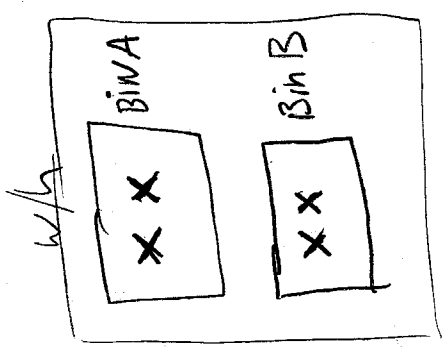


(1) other plants only if intercompany billing active.

Lean Warehouse Management (Enterprise Structure)

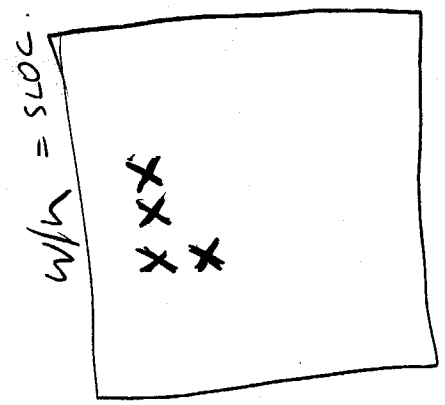
Warehouse Management

- wh doc TO, confirmation
- Stock on bin level.

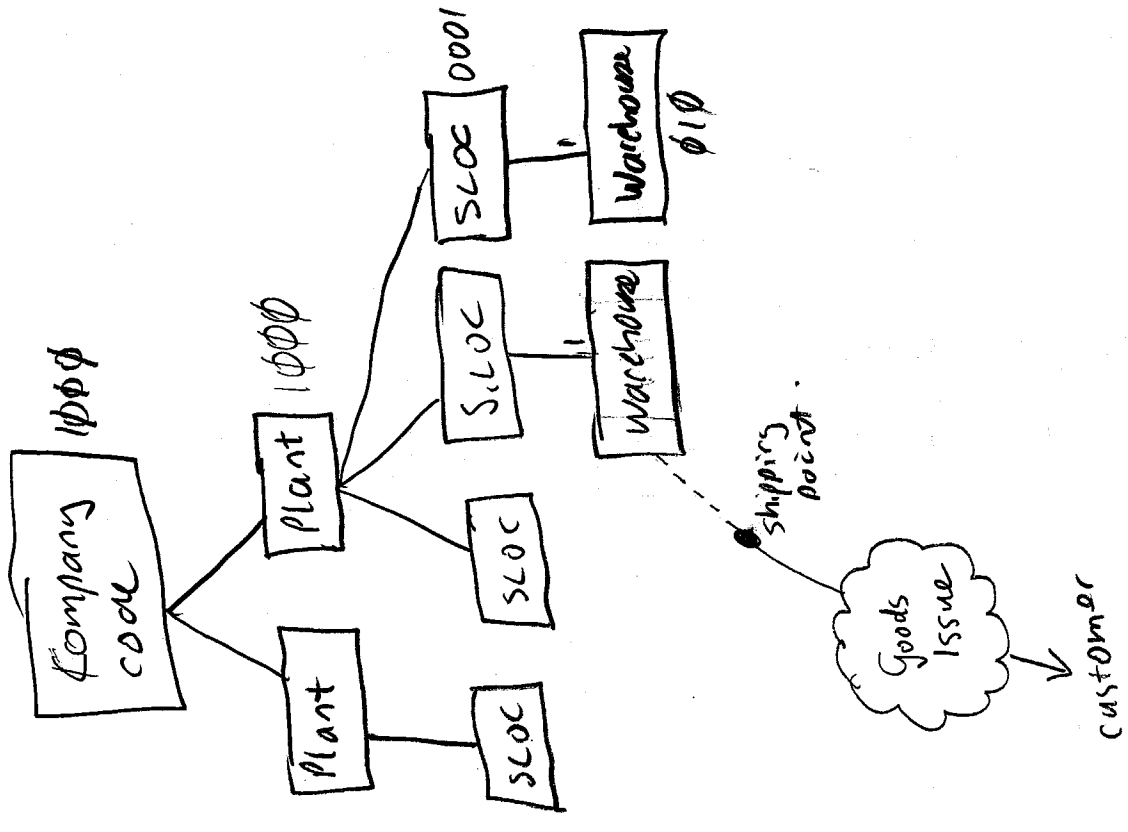


Lean Warehouse Management OR

- wh doc TO, confirmations
- Stock on warehouse level (no bins!!!)



could be



img: LE > Ship > Pick > Lean WM > Define control perms.

Document Types (tcode vov8)

Sales document type	OR Standard Order	Sales document block	<input type="checkbox"/>
SD document categ.	C		
Indicator			
Number systems			
No. range int. assgt.	01	Item no. increment	10
No. range ext. assgt.	02	Sub-item increment	

General control			
Reference mandatory	<input type="checkbox"/>	Material entry type	<input type="checkbox"/>
Check division	<input type="checkbox"/>	<input checked="" type="checkbox"/> Item division	
Probability	100	<input checked="" type="checkbox"/> Read info record	
Check credit limit	D	Check purch. order no	<input type="checkbox"/>
Credit group	01	<input type="checkbox"/> Enter PO number	
Output application	U1	Commitment date	<input type="checkbox"/>

Transaction flow			
Screen sequence grp.	AU Sales Order	Display criteria	UALL
Incompletion procedu	11 Sales Order	FCode for overv. scr.	UER1
Transaction group	0 Sales order	Quotation messages	B
Doc. pric. procedure	A	Outline agrmt mess.	B
Status profile		Message: Mast. contr.	
Alt. sales doc. type1		ProdAttr. messages	
Alt. sales doc. type2		<input type="checkbox"/> Incomplet messages	
Variant			

Scheduling agreement			
Corr. delivery type	<input type="checkbox"/>	Delivery block	<input type="checkbox"/>
Use	<input type="checkbox"/>		
MRP for DivSchType	<input type="checkbox"/>		

Shipping			
Delivery type	LF Delivery	Immediate delivery	<input type="checkbox"/>
Delivery block	<input type="checkbox"/>		
Shipping conditions			
ShipCostInfoProfile	STANDARD Standard freight information		

Billing			
Dlv-rel. billing type	F2 Invoice	CndType line items	EK 02
Order-rel. bill type	F2 Invoice	Billing plan type	
Intercomp. bill type	IU Intercompany billing	Paymt guarant. proc.	01
Billing block	<input type="checkbox"/>	Paymt card plan type	03
		Checking group	01

Requested delivery date/pricing date/purchase order date			
Lead time in days	7	<input checked="" type="checkbox"/> Propose deliv. date	
Date type		<input type="checkbox"/> Propose PO date	
Prop. f. pricing date			
Prop. valid-from date			

Contract			
PricProcCondHeadr		Contract data allwd.	<input type="checkbox"/>
PricProcCondItem		FollUpActivityType	
Contract profile		Subseq order type	
Billing request	L2	Check partner auth.	A
Ref. procedure		<input type="checkbox"/> Update low. lev. cont.	

Availability check			
Business transaction	<input type="checkbox"/>		

Item category

(V0V7)

Doc Type + Item Cat Group (material) + Usage indicator (ABAP) + High level I.Cat = Item Cat

Item category

TAN

Standard Item

Business data

Item type

Completion rule

Special stock

Relev. for billing

Billing plan type

Billing block

Pricing

Statistical value

Revenue recognition

Delimit. start date

[]
[]
[]
A
[]
[]
X
[]
[]
[]

- Bus. data item
- Sched. line allowed
- Item relev. for dlv.
- Returns
- Wght/vol. relevant
- Credit active
- Determine cost

General control

Autom. batch determ.

Rounding permitted

Order qty = 1

Transaction flow

Incompletion proced.

20

Standard Item

Screen seq. grp

N

PartnerDetermProced.

N

Standard Item

TextDetermProcedure

01

Sales item

Status profile

Item cat. stats. group

1

Order, debit memo

Create PO automatic.

Bill of material/configuration

Config. strategy

Mat. variant action

ATP material variant

Structure scope

Application

[]
[]
[]
[]
[]

- Variant matching
- Create delivery group
- Manual alternative
- Param. effectivities

Value contract

Value contract matl

Contract release ctrl

[]
[]

Service management

Repair proced.

[]

Control of resource-related billing and creation of quotations

Billing form

[]

DIP profil

[]

Schedule Line Category (tcode vov6)

Item category + MRP Type = Schedule Line Category

Change View "Maintain Schedule Line Categories": Details

Table view Edit Goto Selection criteria Utilities System Help

New entries

Sched. line cat: **CU** Consumption MRP

Business data

Delivery block:

Movement type: **601** **GD goods issue:deluy** Item rel.f.dv.

Movement type 1-step:

Order type: P.req.del.sched

Item category:

Acct. assig. cat:

Transaction flow

Incompl. proced.: **30** **Deliv-Rel.Sched.Line**

Req./Assembly

Availability

Prod. allocation

V0V6 | rwd15065 | INS | 16:20

Billing Doc types

(tcode vofa)

Billing type	F2	Invoice	Created by	
Number systems				
No.range int.assgt.	19		Item no.increment	10
General control				
SD document categ.	M	Invoice	<input type="checkbox"/> Posting block	
Transaction group	7	Billing documents	<input checked="" type="checkbox"/> Statistics	
Billing category				
Document type				
Negative posting		No negative posting		
Branch/Head office		Customer=Payer/Branch=s		
Credit memo w/ValDat		No		
Invoice list type	LR	Invoice list		
Rebate settlement			<input checked="" type="checkbox"/> Rel.for rebate	
Standard text				
Cancellation				
Cancell.billing type	S1	Invoice Cancellation		
Copying requirements				
Reference number				
Allocation number				
Account assignment/pricing				
Account determ.proc.	KOFI00	Account Determination		
Doc. pric. procedure				
Acc. det. rec. acc.				
Acc. det. cash. set.				
Acc. det. pay. cards	A00001	Standard		
Output/partners/texts				
Output determ.proc.	U10000	Billing Output	Application	U3
Item output proc.				
Output type	RD00	Invoice		
Header partners	FK	Billing Document		
Item partners	FP	Billing Item		
TextDetermProcedure	03	Billing header		
Text determ.proc.itm	03	Billing item		
<input type="checkbox"/> Delivery text				

Copy Control (tcode vtfll)

Change View "Header": Details

Table view Edit Goto Selection criteria Utilities System Help

New entries

Dialog Structure

- Header
- Item

Target billing type: F2 Invoice

From delivery type: LF Delivery

Copying requirements: 003 Header/Dlv-related

Determ. export data: []

Allocation number: C

Reference number: A

Copy item number

VTFL wdl5079 INS 0.620

Header

Change View "Item": Details

Table view Edit Goto Selection criteria Utilities System Help

New entries

Dialog Structure

- Header
- Item

Target billing type: F2 Invoice

From delivery type: LF Delivery

Item category: TAN Standard Item

Copying requirements: 004 Deliv-related item

Data VBRK/VBRP: 001 Inv. Split (sample)

Billing quantity: B

Pos./neg. quantity: +

Pricing type: G

PricingExchRate type: []

Cumulate cost: []

Price source: E

VTFL wdl5079 INS 2.183

Item

Rejection Reason (item level)

Change View "Sales Documents: Rejection Reasons": Overview

Table view Edit Goto Selection criteria Utilities System Help

New entries

Ri	NRP	OLI	BIC	Stat.	Description
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Unreasonable request
11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Cust. to receive replacement
20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Rejected due to credit check
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Backlog to competitor
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Cancellation up to resampling
42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Customer usage date postponed

Position... Entry 7 of 22

SPRO | iwd#5065 | INS | 17:52

- NRP Not Relevant for Printing
- OLI Cost line item open again (to be billed later)
- BIC Not relevant for Billing
- Stat. Statistical values

Customer Master (tcode ovt0)

IMG: Log – Gen > Business Partners > Customers > Define Account Groups

The screenshot shows the SAP 'Change View Customer Account Groups: Details' interface. Key sections include:

- Account group:** 215 customer 15
- General data:** Number range 02, One-time acct checkbox.
- Field status:** General data, Company code data, Sales data.
- Text proc:** Genl Text De Proc 01, Text De Proc SD t.
- Sales and distribution data:** Cust. pric. proc. 1 (Standard), Partner det. proc. AG (Sold to Party), Output Det. Proc., and checkboxes for Competitors, Sales partner, Sales prospect, Default SP, and Consumer.

Select group dialog box with the following options: Address, Communication, Control, Marketing, Payment transactions, Unloading points, Contact person, Foreign trade.

Select group dialog box with the following options: Account management, Payment transactions, Correspondence, Insurance, Withholding tax data w/h tax Z.

Select group dialog box with the following options: Sales, Shipping, Billing, Partner usage, Documents.

Field Suppress Required Optional Display

These fields can also be set per transaction (tcode ob20)

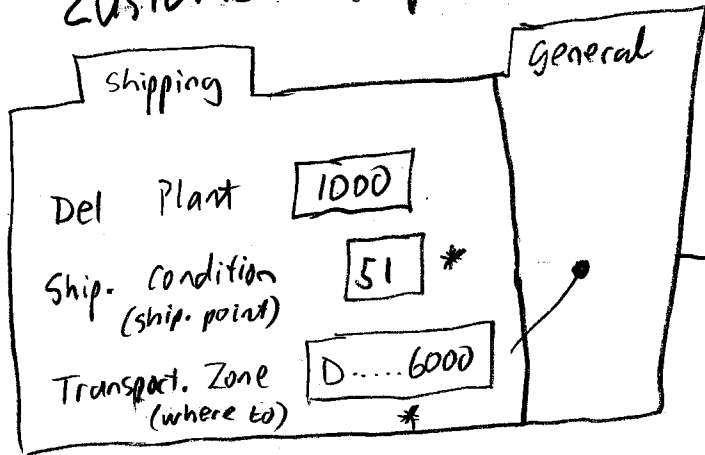
What takes preference if a field is set per "Account Group" and "Transaction"?

- Highest Suppress / Hide
- Display
- Required
- Lowest Optional

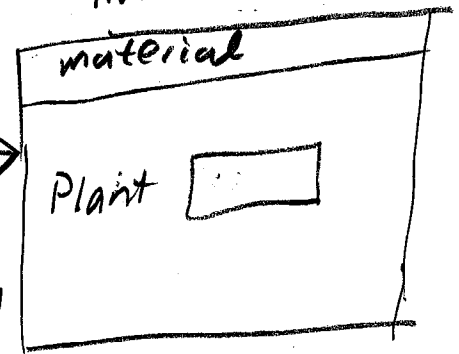
Sales Order

- Delivery Plant
- Shipping Point.

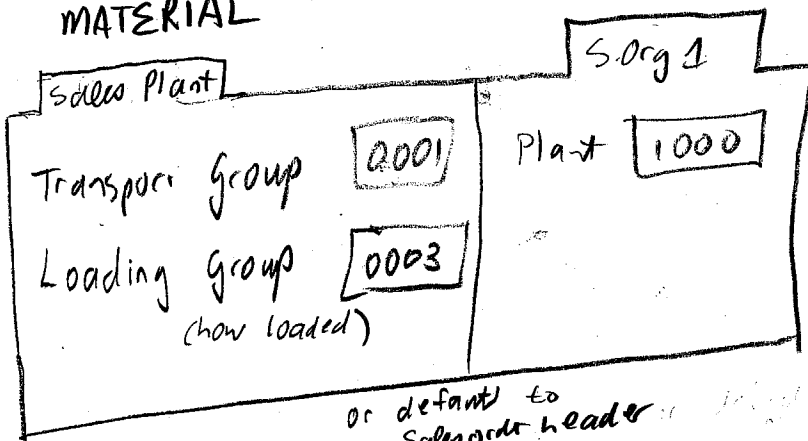
CUSTOMER (ship to)



CUSTOMER MATERIAL INFO REC



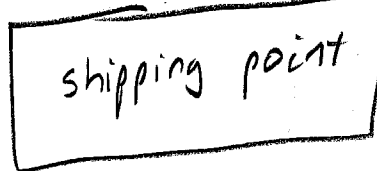
MATERIAL



or default to sales order header

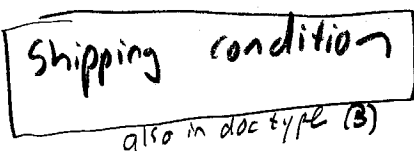
PLANT

- H (1) cust. mat inf Rec
 ↓ (2) Customer (ship to)
 ↓ (3) Material

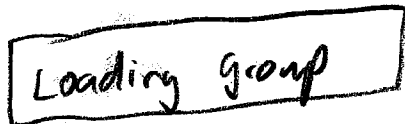


Proposed manual options.

customer (sold to)



material

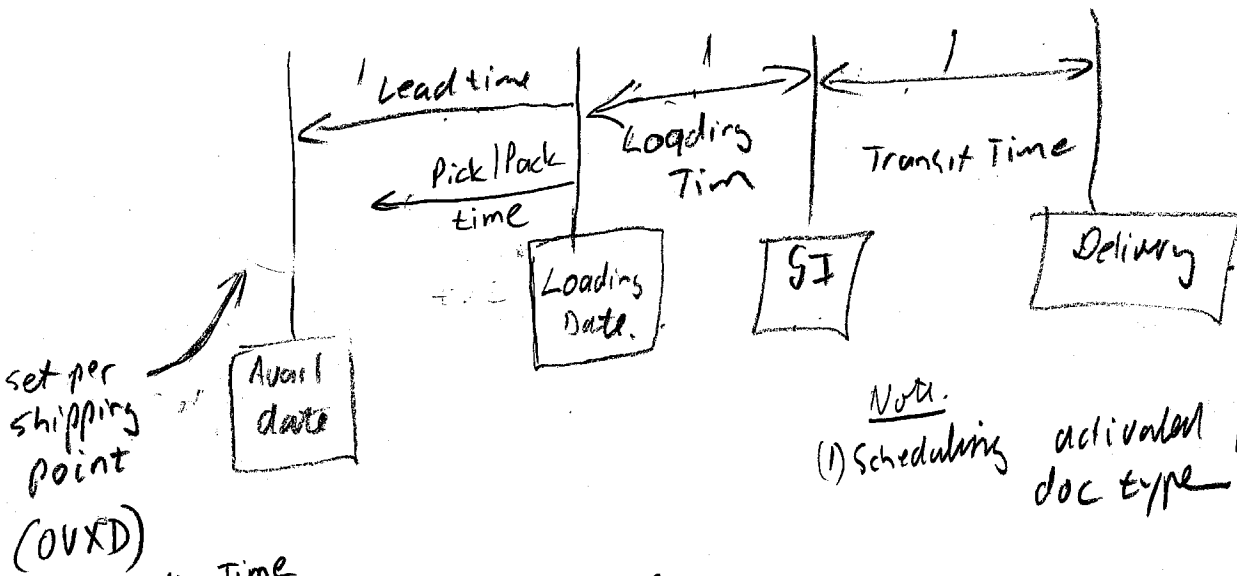
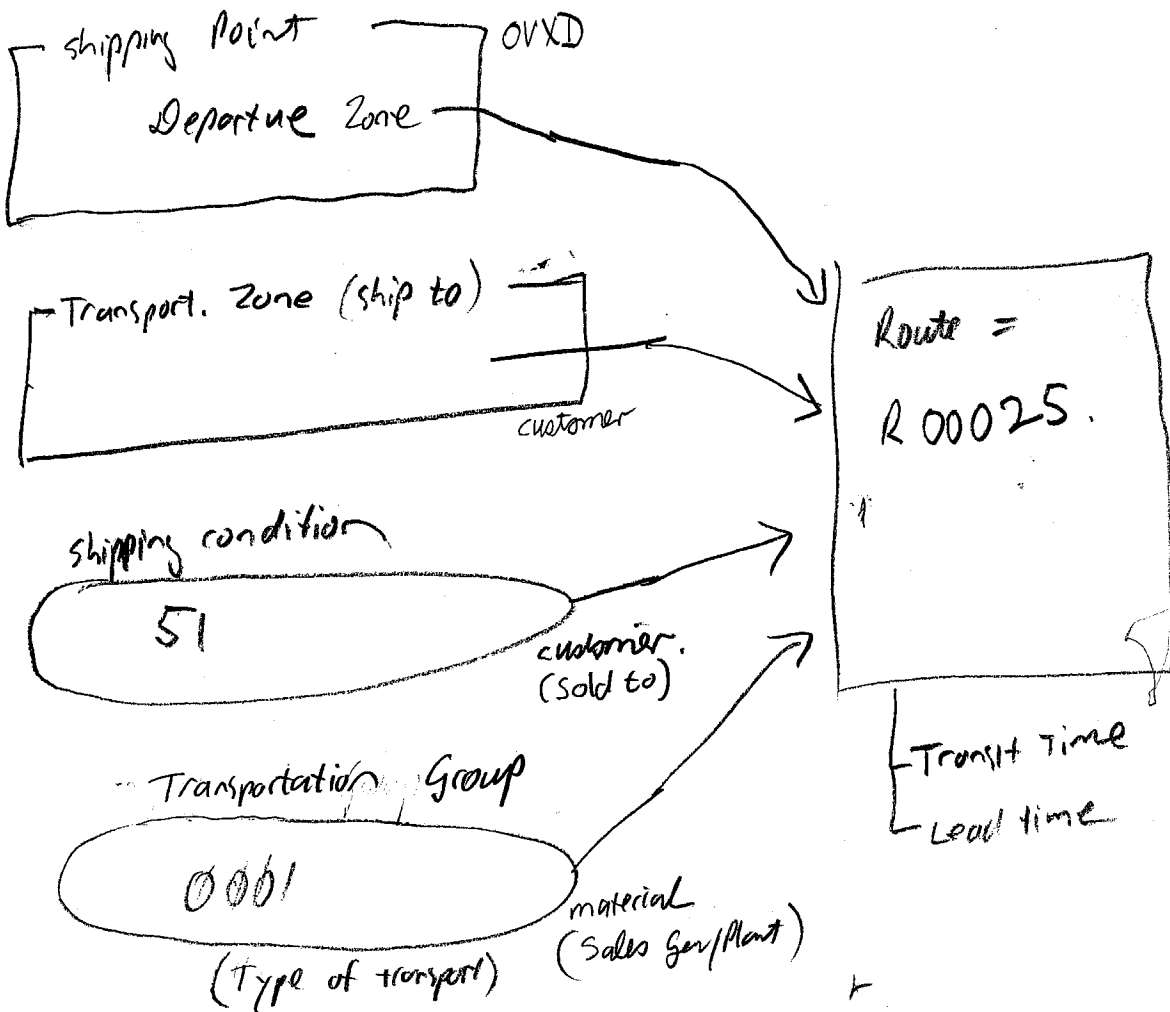


Notes

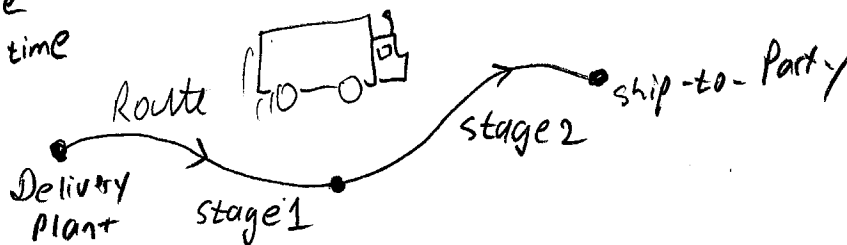
- (1) Imp: LE → shipping → Basic
- (2) Shipp. Point: SAP Enterprise → LE (OVXD)
- (3) Doc type take over.

Route Determination

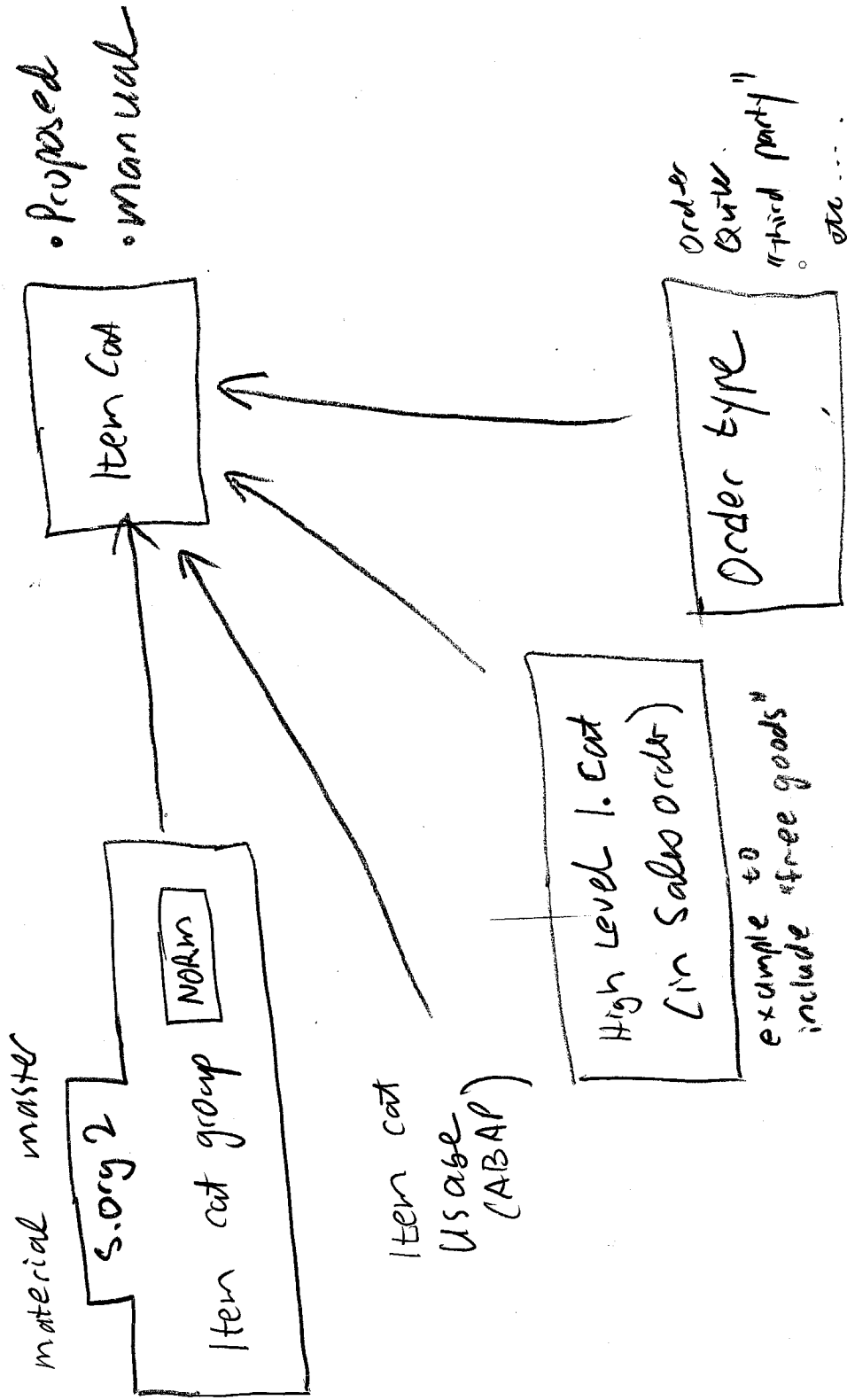
(ims → LE → shipping → Basic → Route)



Note:
(1) Scheduling activated per doc type

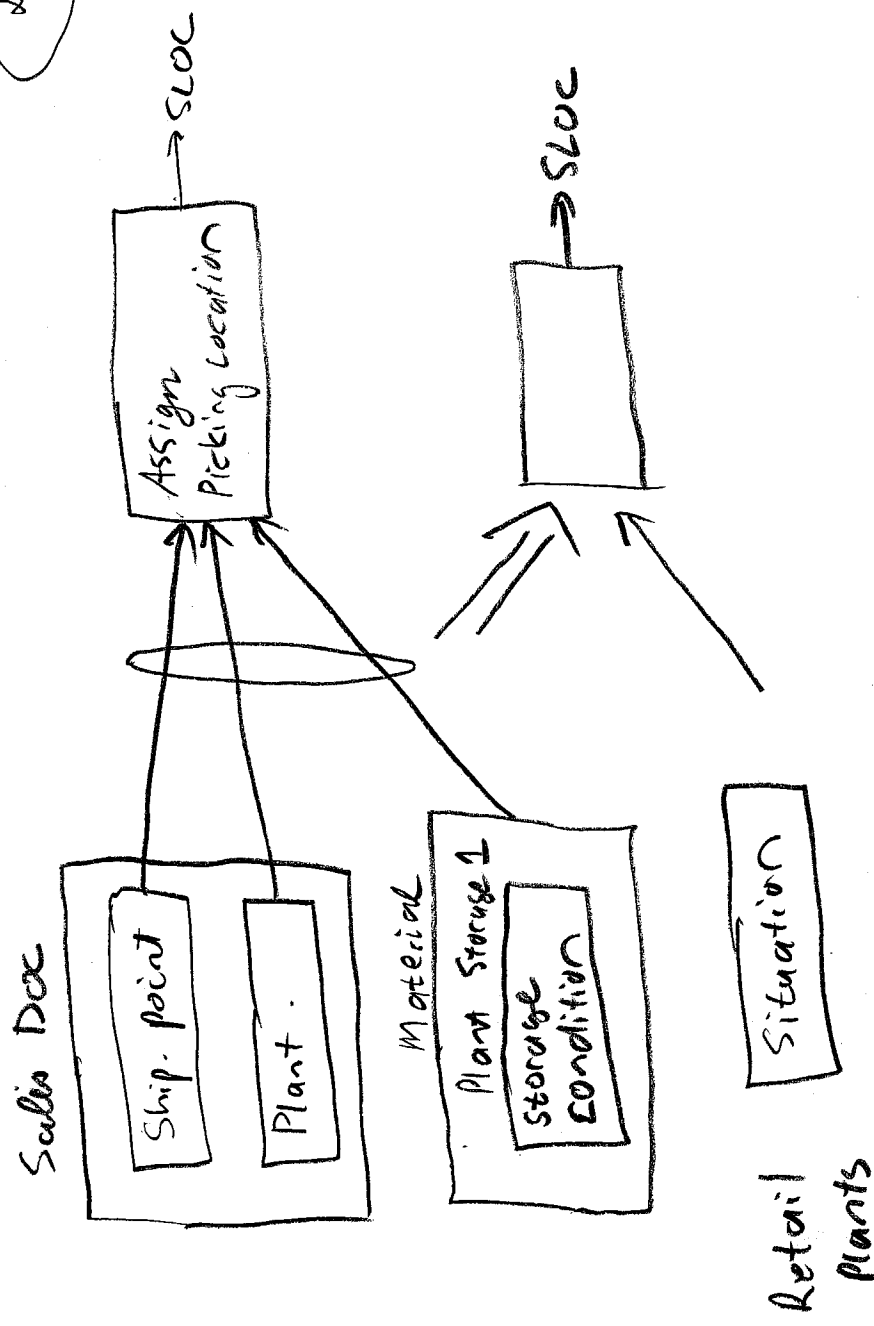


Item cat in Sales Docs



Storage Location for Shipping Point.

Delivery T-type → assign → Rule for Determining Picking SLOC



• MALA

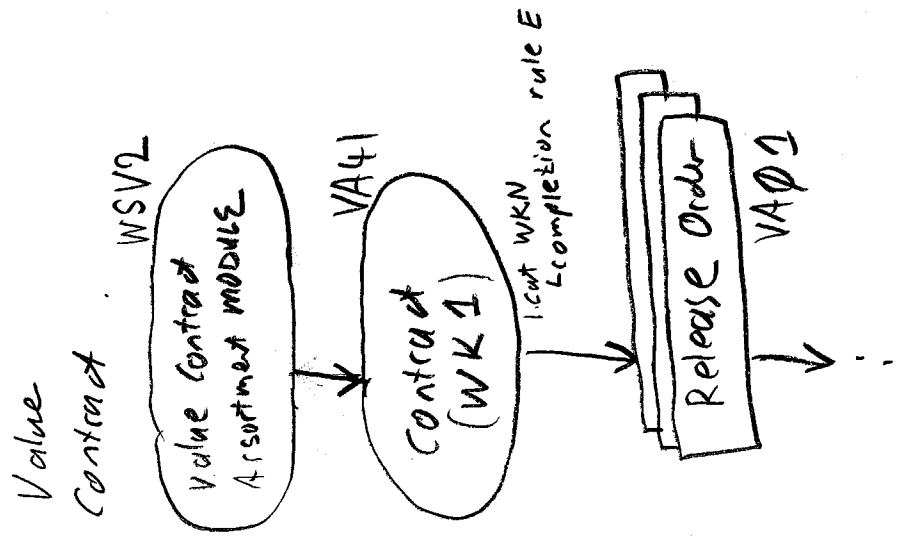
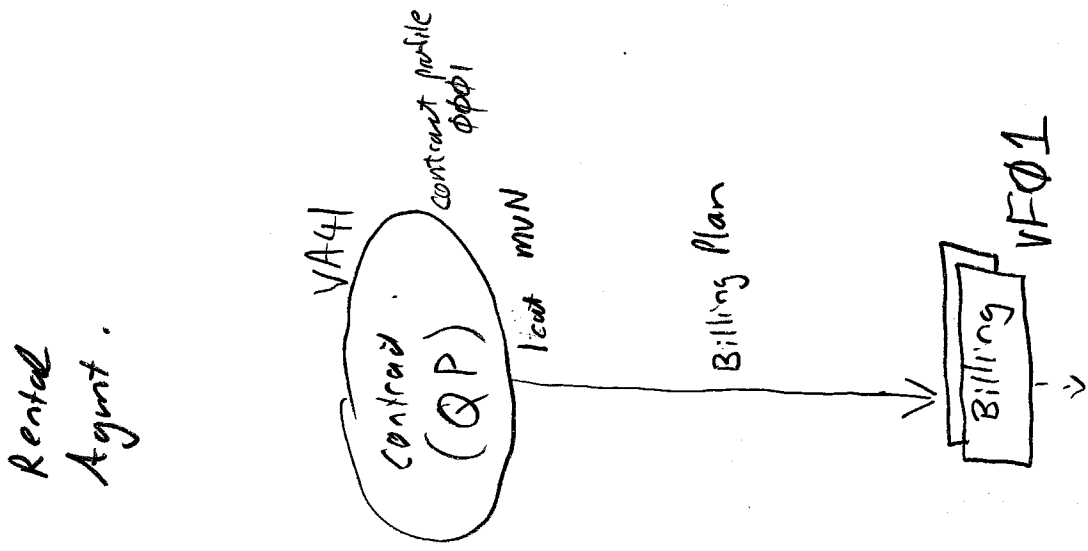
• RETA (SAP Retail IS)

• MARE
check MALA, then RETA

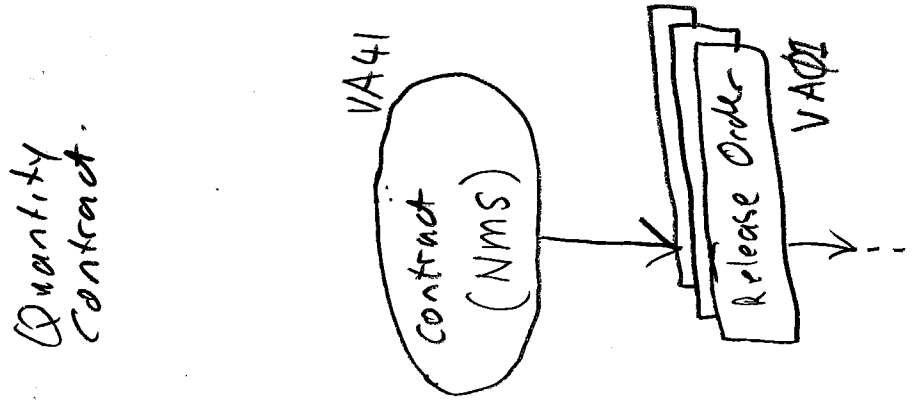
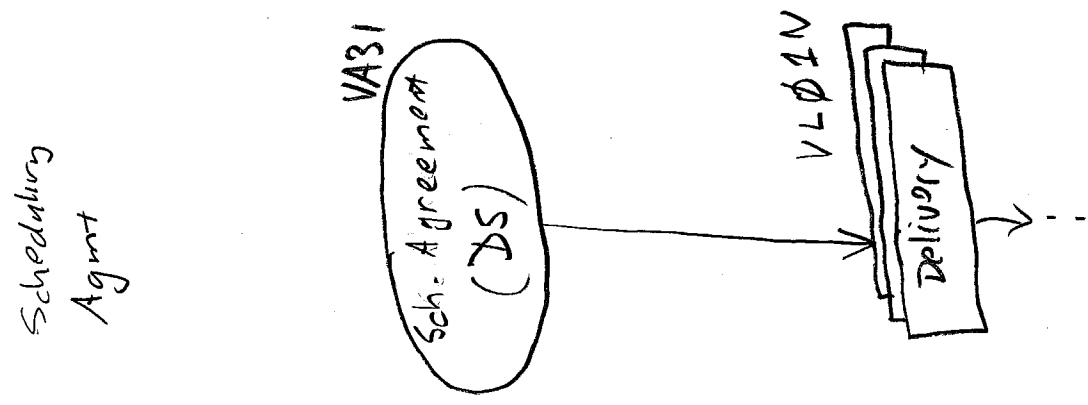
• Y Y - user exit

config: LE → Shipping → Picking.
→ Determine Picking Location

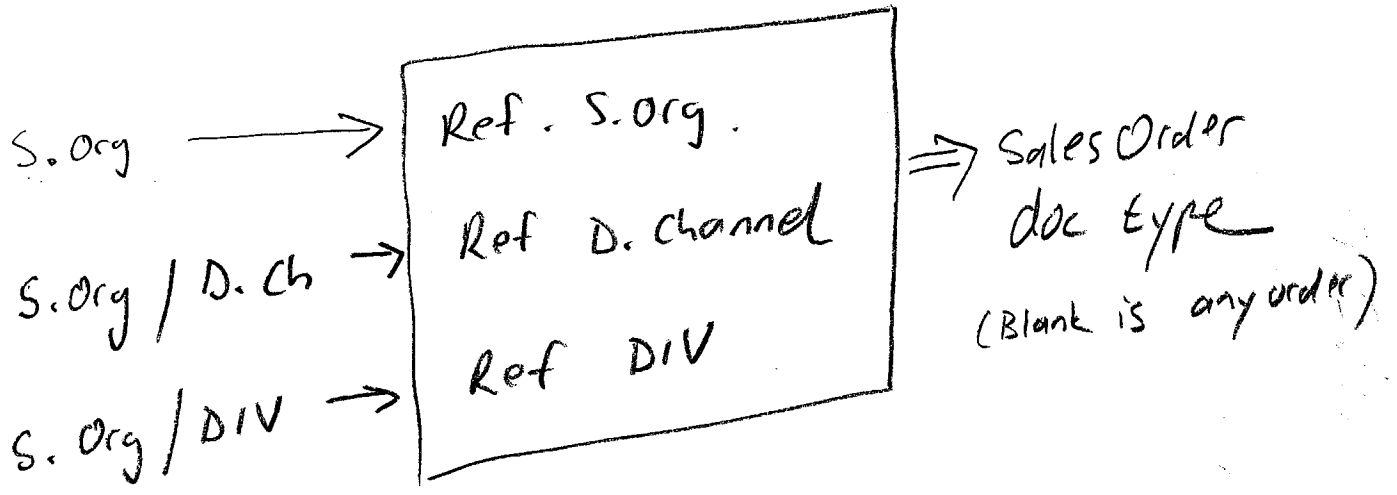
Contracts & Scheduling Agmts



WK1 - Partner Auth = A
AA - Sdd.
AW - ship



Can SO doc type be used with a Sales Area?



img: Sales → Sales Doc → Header → Assign Sales Area 2 doc type

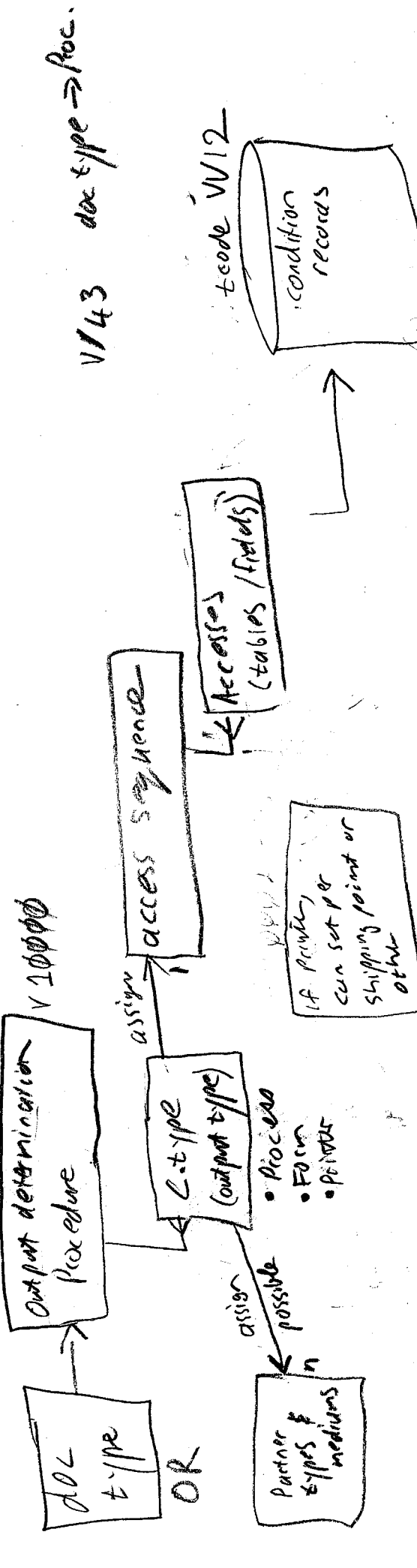
DIV of material vs. DIV of doc

- Config of order type → check DIV
- W/E (Variable message V1 370)
- Item division ~
 - From material
 - From header.

Example

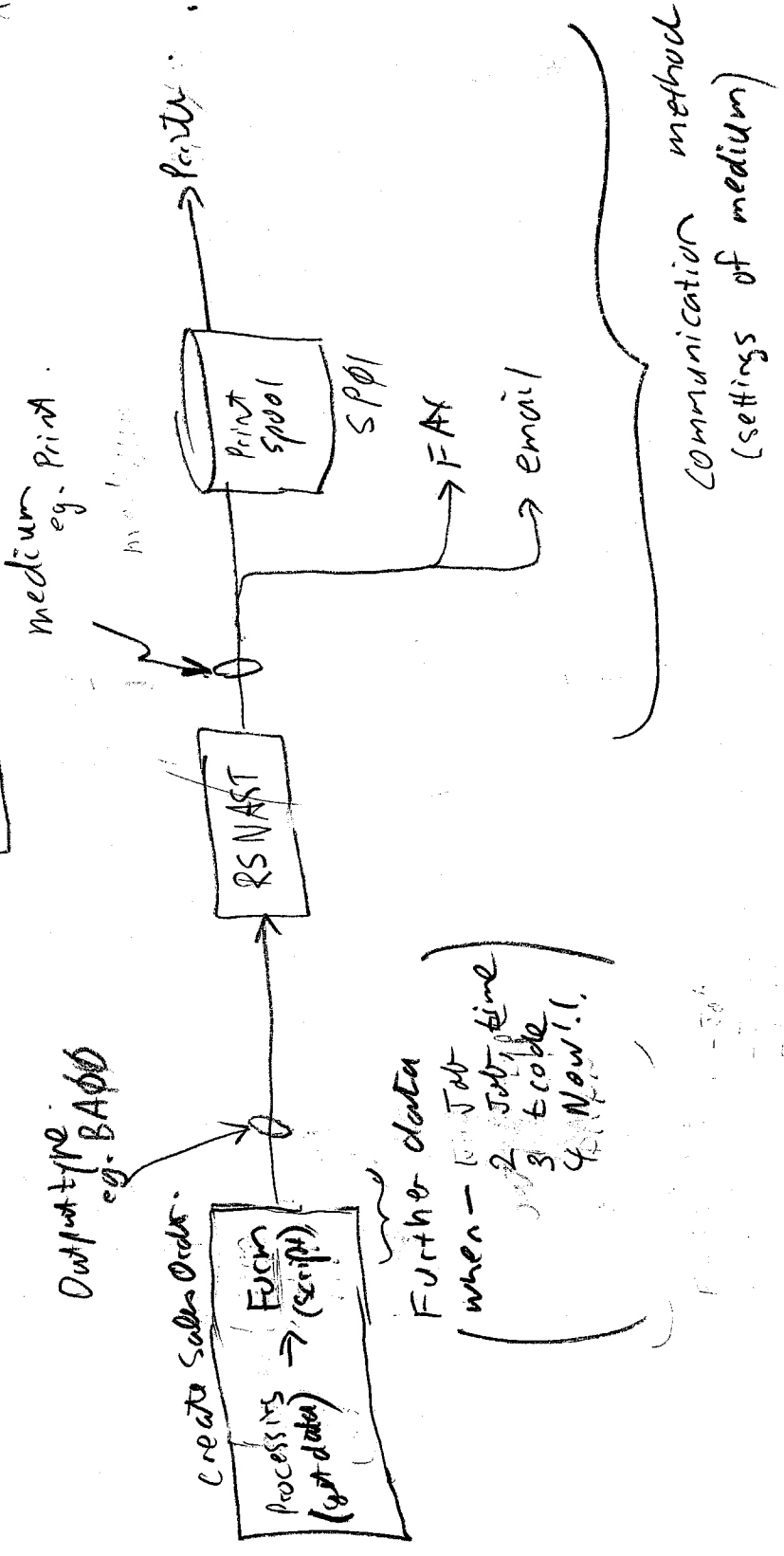
OR / 1000, 12,00 ✓
 OR / 1000, 16,00 x

Output Control (using condition Technique)



V143 doc type → Proc.

- partner function
- Medium
 - When
 - Language (override one in cust. main)
- used in process.



Output determination

Example

Order - header
(OR)

Output determination
procedure

VAPPPPP

output type

OPPP1

access seq

Coord. type

BAPPP

Access	Key fields
Table 6	Si.Org, Dich, Piv, Curt
Table 4	Si.Org, Curt
Table 7	Order type

maintain data via table VV12
 • Partner function
 • when (dispatch time)

Print parms

Link to

• Device - when (spool)

output type

Print Spool

create doc

"Further data"

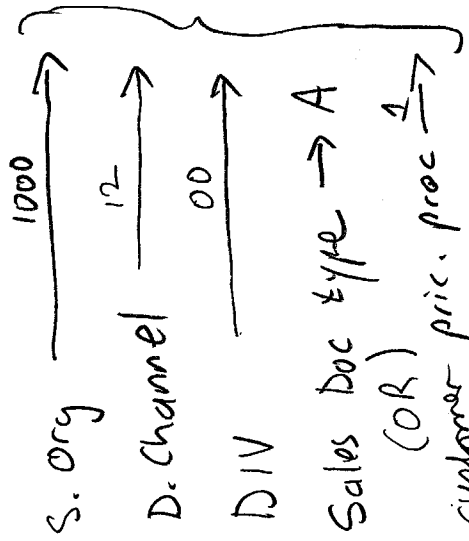
when (dispatch time)
 1 - Job
 2 - Job time
 3 - TRX
 4 - when save

"Communication" method

Auto Pricing in Sales Order

config: SD → Basic → Pricing

Create Sales Order.



customer master data

• maintain conditions (VK12)

or

• material master (material price)

Procedure (RVAA01)

consist of

condition types

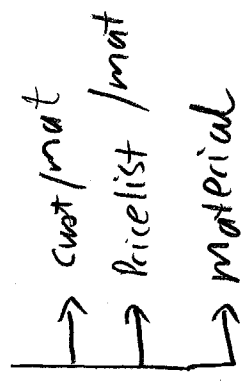
Access Seq

(pricing tables)

PR02

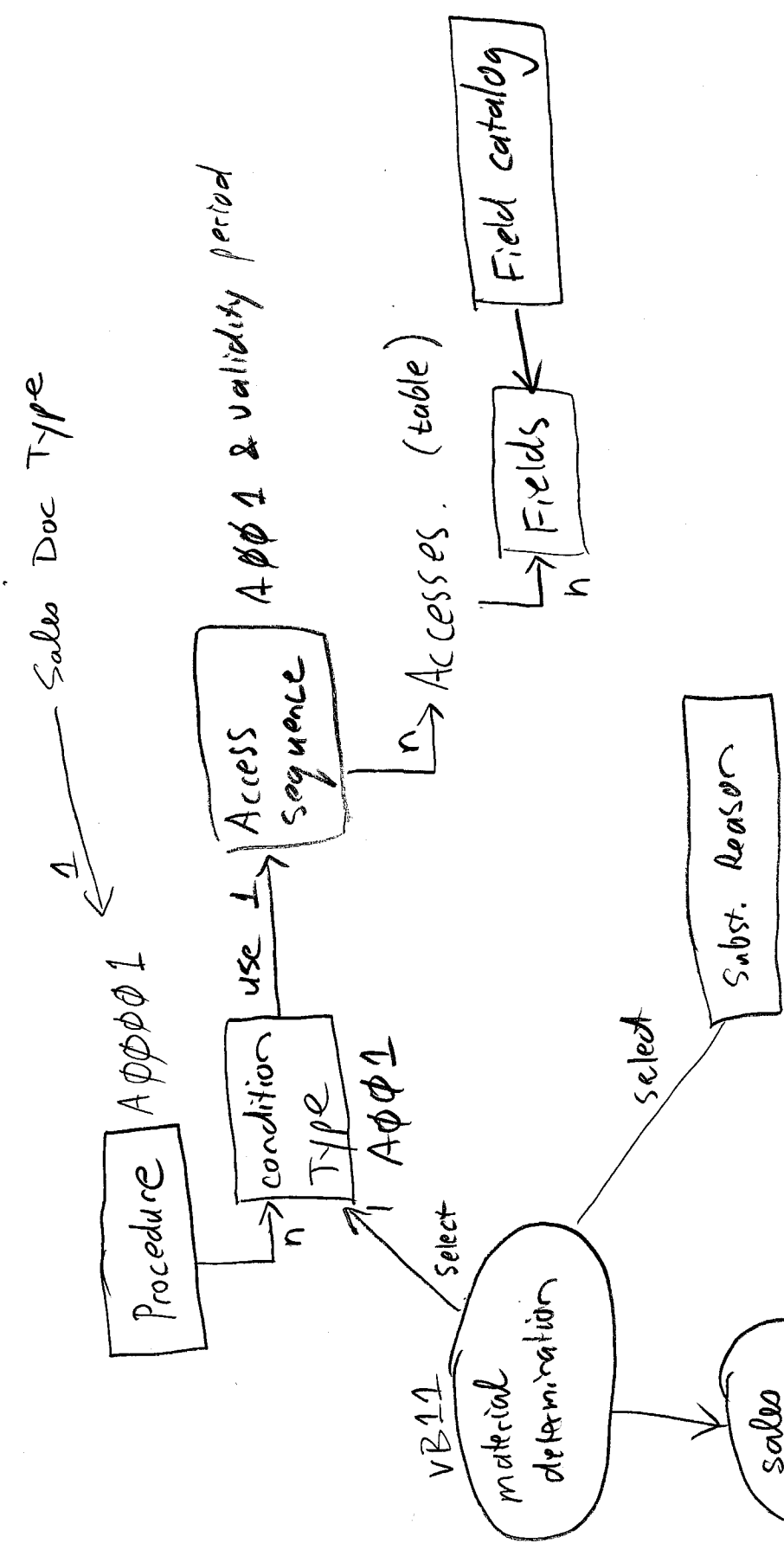
PR00

R100



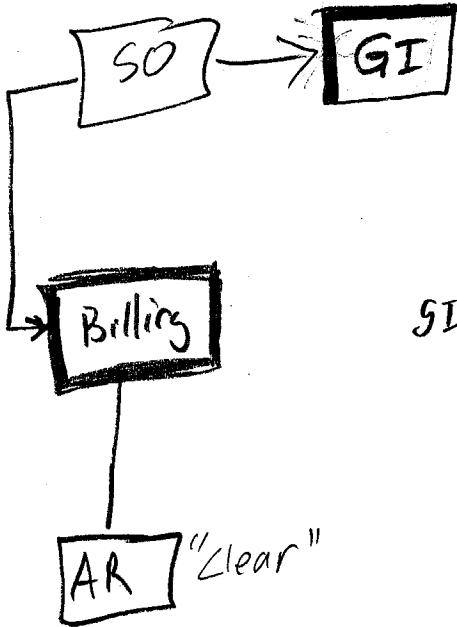
Key 55 (if Pricing in item cat = B)

Conditions in Config (Material Determination)



- Notes:
- Config: SP → Basic Func → Mat Det →
 - Conditions for Listing/Exclusion works the same.

FI postings



Stock	costs of goods sold
1000	1000

GI

AR "clear"

Billing
AR

customer	
2200	2200

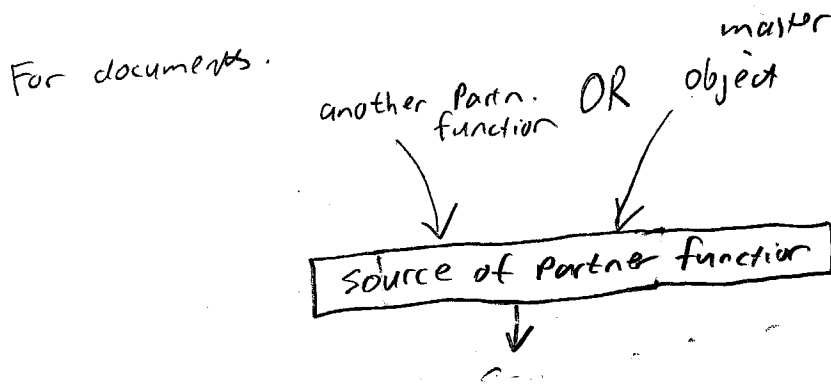
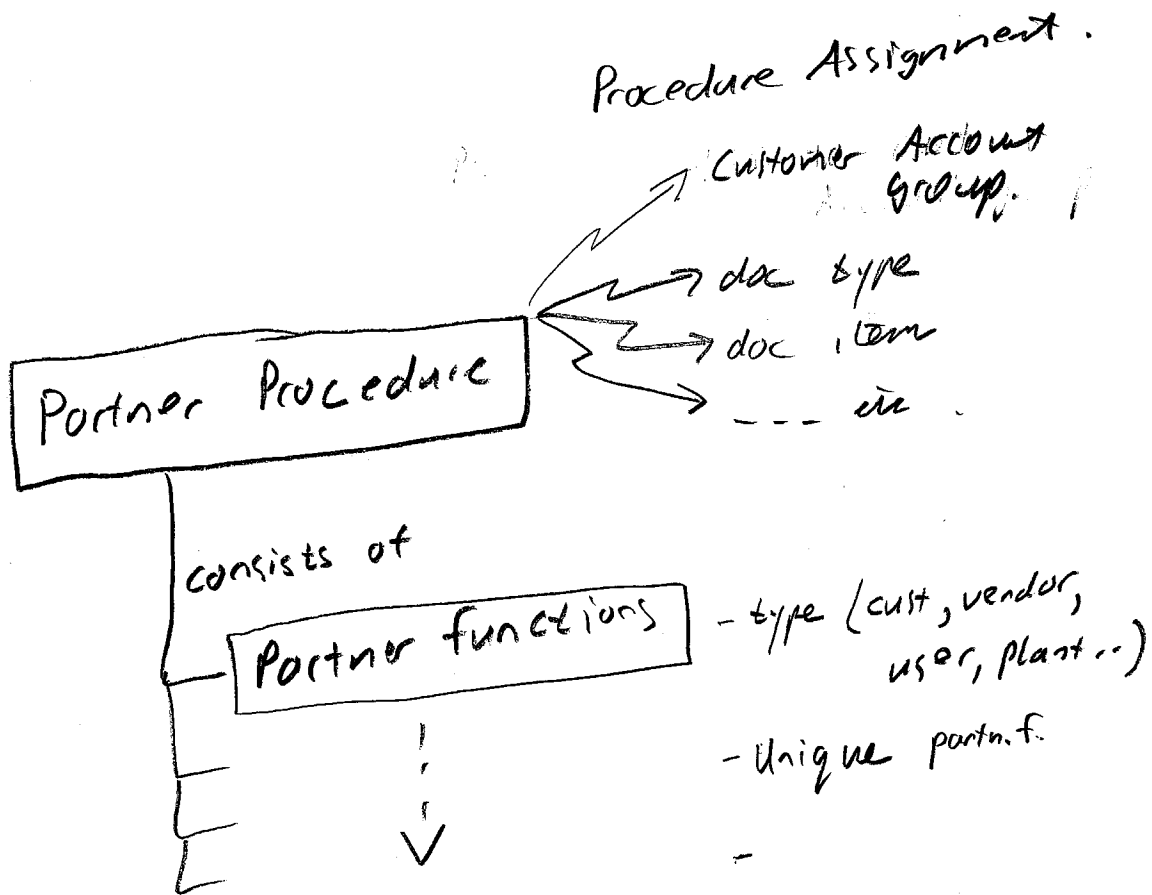
(800002) Sales Revenue	
2000	

Tax	
200	

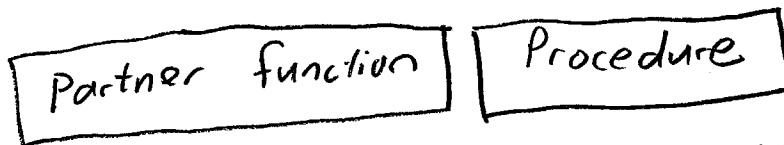
AR.

(100009) Bank	
2200	

Partner Functions



Config: SD → Basic functions → Partner Det → Define Partner functions.



goto → Procedure Assignment.

In completion Log

(Edit → incompletion Log)

Error groups

SAP standard
(used by program)

Procedures

Fields

- Doc type (+IC Dialog)
- Item cat
- Sch line cat
- Partner functions
- Sales activities
- Delivery doc
- Delivery item

Example

OR → 11
TAN → 20
CN → 30
RE bill to → 07

LF →
TAN →

config: SD → Basic functions → Log of Incompletion

Table	Short text
VBKD	Sales: Business data
VBAK	Sales: Header data
VEDA	Sales: Contract data
VBAP	Sales: Item data
VBKA	Sales activities
VBEP	Sales: Schedule line data
VBPA	Partner
LIKP	Delivery: Header data
LIPS	Delivery: Item Data
LIPSD	Delivery: Item data (dynamic/online)
LIPSVB	Delivery: Item data (LIPS + LIPSD)
V50UC	Delivery: Dynamically generated data (item and header)
FMIII	Funds management-account assignment data
RV45A_UV	Sales: Special rules

Text Example

config: SD → Basic → Text
(VOTX)

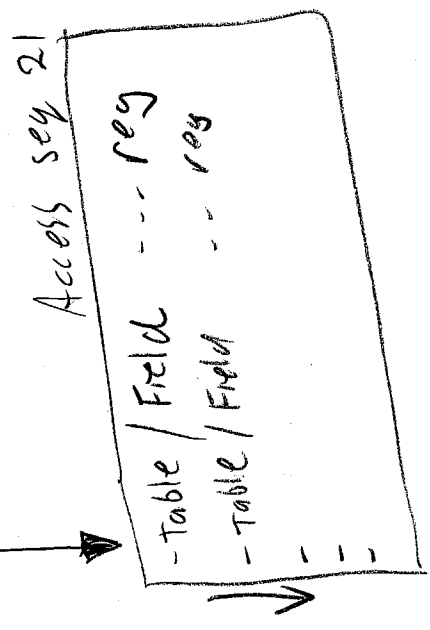
Sales Doc

Header	Doc
Item	Doc

Procedure
Ø1

Usage → Procedure
TAN → Ø1

Text ID	Copy	Mdt	No	Seq
0001				21
0002				22
0003				23
0004				24
0005				
0006				



Text config (VOTX)

also in
doc type config
& item cat
config

Procedure usage/assignment

Text PROCEDURE 01

- Text Objects
- Customer X
 - Info Rec
 - Pric. Card.
 - Sales doc
 - Delivery
 - Billing
 - Contacts
 - Shipments
 - Financial doc
 - Legal control
 - Agency business
 - Trading contact

Text in procedure

Access key

Objed.

field to
copy.

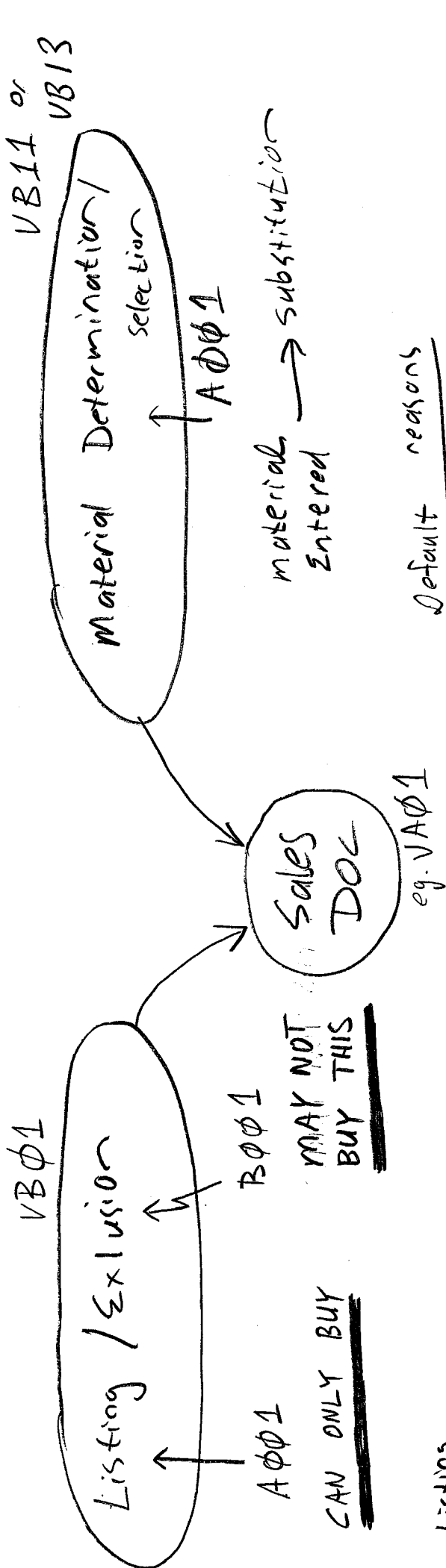
1
2
3

0001
0002
0003

assign

OR

Listing / Exclusion & Material Determination / Selection



A001
CAN ONLY BUY

B001
MAY NOT BUY THIS

material Entered → substitution

Listing

For every material, list - use only it.
 if "sold to" have list - use it.
 if "payer" have list - use it.

Exclusion

For every material,
 first check "payer" list,
 then also "sold to" list.

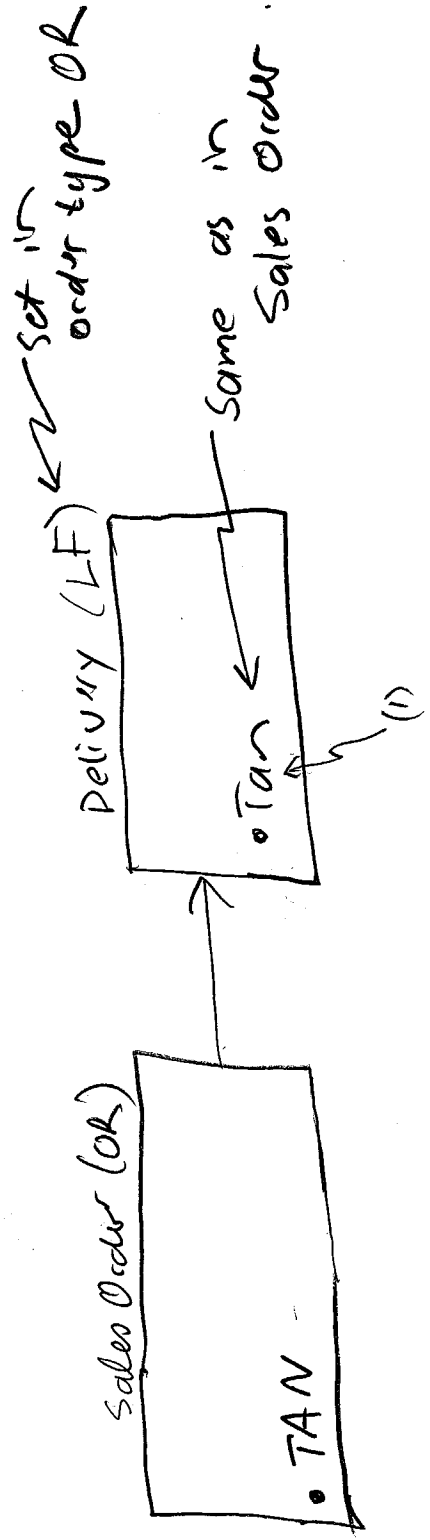
Default reasons

1-3	auto, replace
4	auto, sub-items
5	selection, replace
6	auto, or create only
7	selection - no ATP, replace

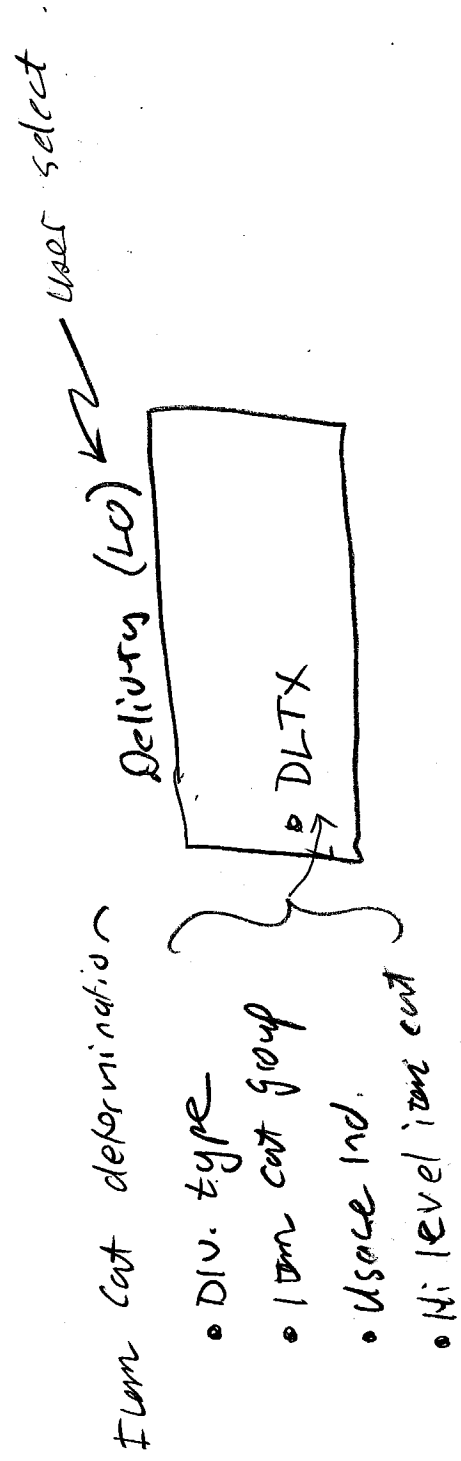
Note:

- Item Cat Usage = P SHP for Reason 4 (sub-items).
- Item Sales A

Delivery Type & Item Categories



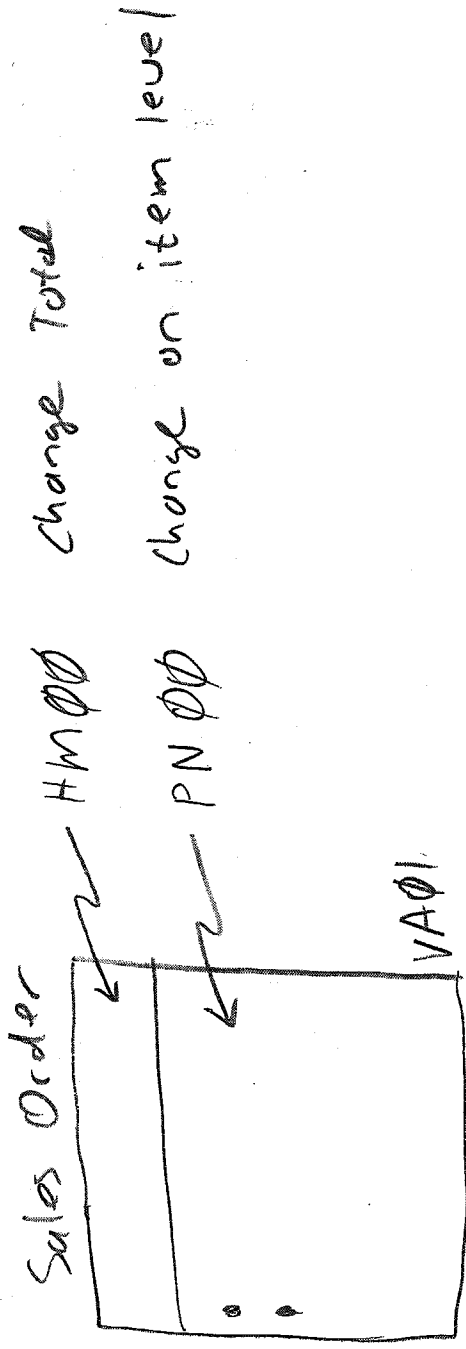
with ref. to Order



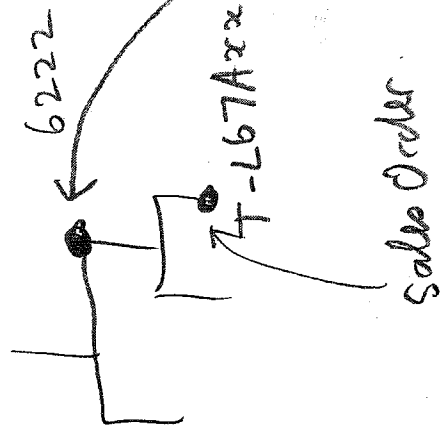
without reference

(1) In config ϕ VEL, can only add what was created in VOU7

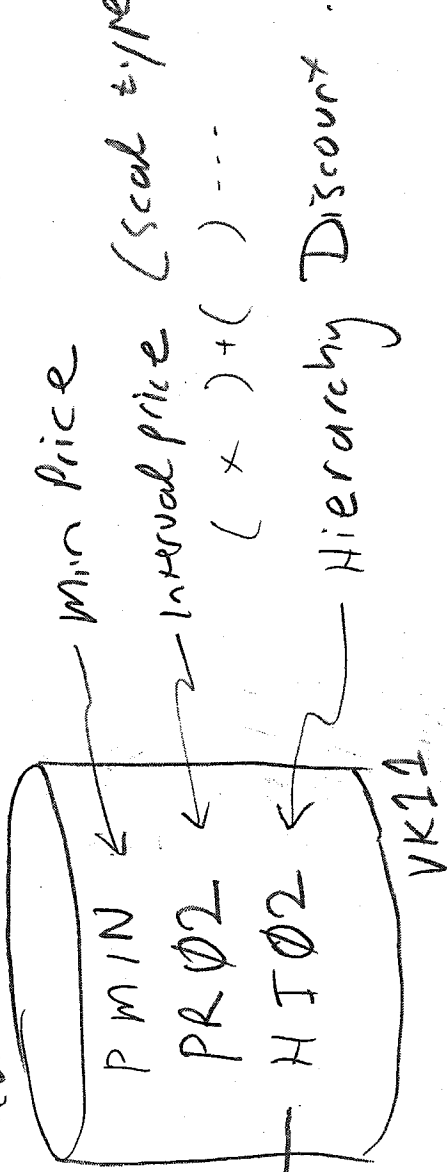
Special Condition Type



Customer Hierarchy



condition records



VDH1N

In completion log

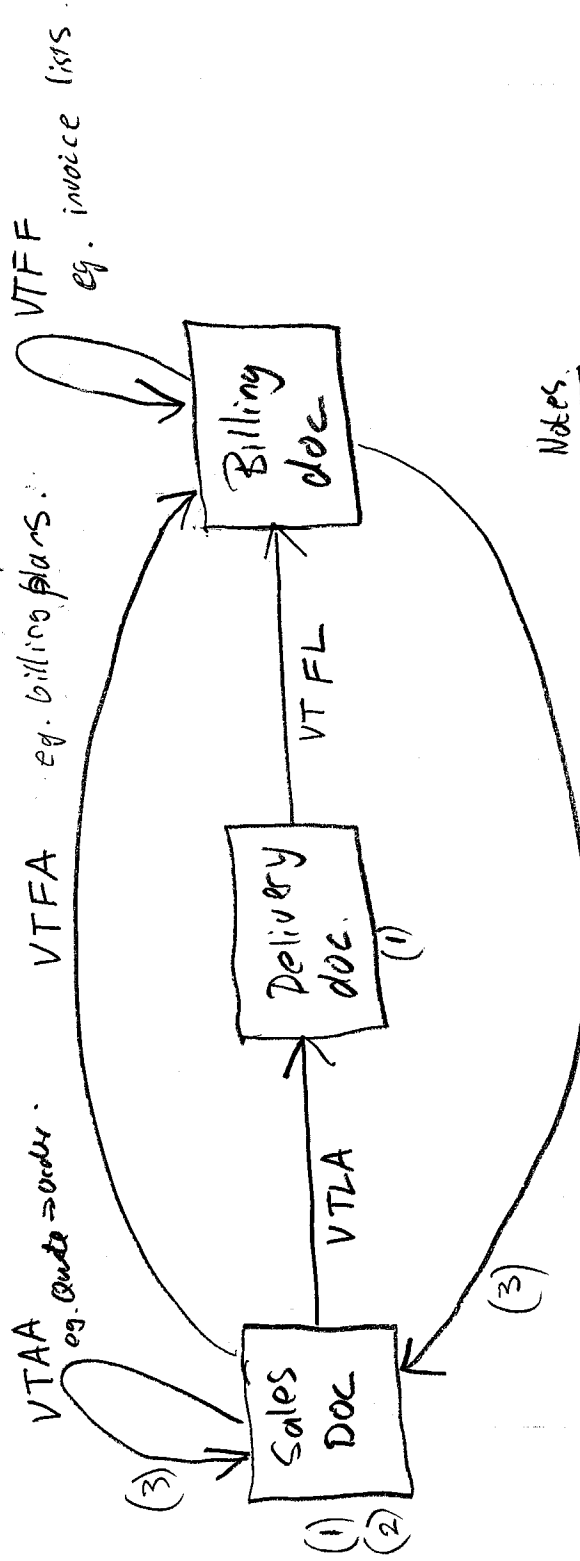
Warning / Error if field is not populated.

Example

doc type → procedure → PO number warn.
(50) (11)
consist of fields

Msg: SD → Basic functions → Log of Incomplete items.

copy control - config



Notes:

(1) Option to "update doc flow" available where target doc is Delivery or Sales doc

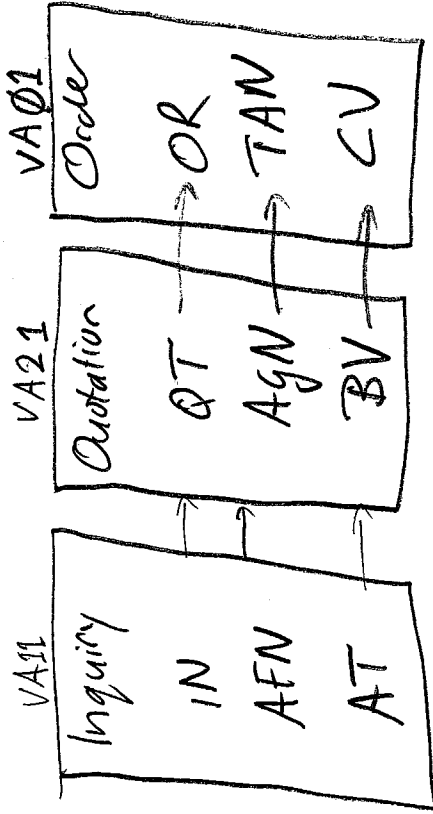
V TAF
eg. invoice correction

VOFM → copy requirements

(2) Ref status (eg "fully referenced") for sales doc's set in item cat config (VOV 7)

(3) For Sales doc, the default item cat determined can be set in copy control

Completion Rule & Copy Control



doc

item

sch. line

Copy key

001 Li 74 cont the same

301 Do not copy completely
demo

501 copy operation

config: SD → Sales → Copy Control

B

complete when full qty ref.

A

complete after first ref.

completion rule (doc status)

(tcode: VOFM. maintain key & formulas)

config

Header: - copy item number
- complete ref (message if change qty)

Item: - copy schedule lines
- update doc flow
- carry new pricing

Item cat config: SD → Sales → Sales Docs → Item → Copy

Demo: IN → QT, try again

• Ref → vs. → propose item

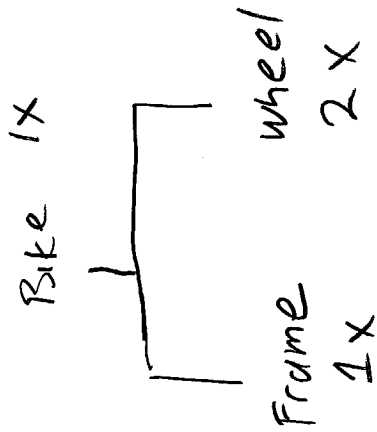
• VA01, ZA01 → REX

• IN → OK ✓ OK → INX

• F2 (invoice) → G2 (credit memo) ✓

Bill of materials in

Sales docs



Bill of material
(CS02)

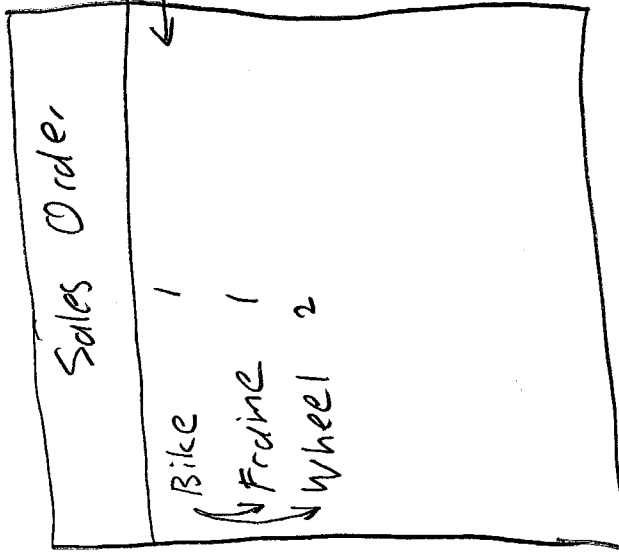
Item cat group (material master)

influence

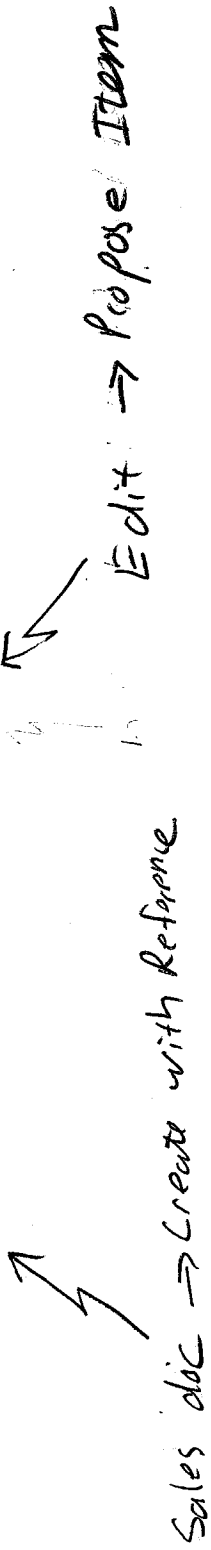
Item cat of TOP

Item must have "structure scope"

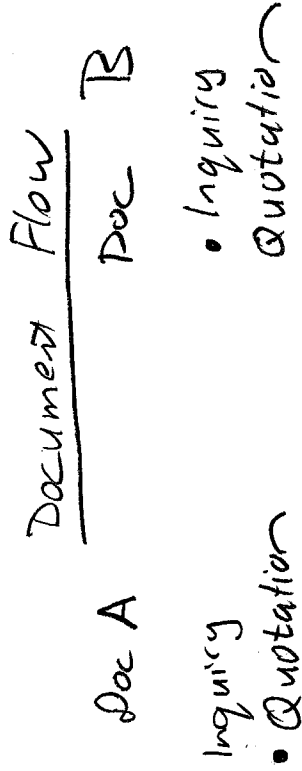
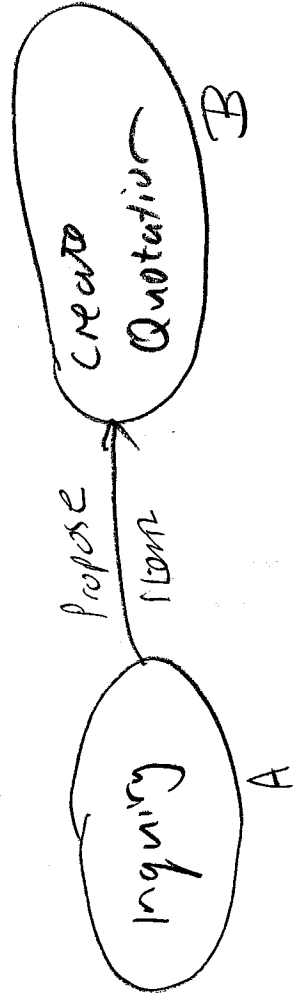
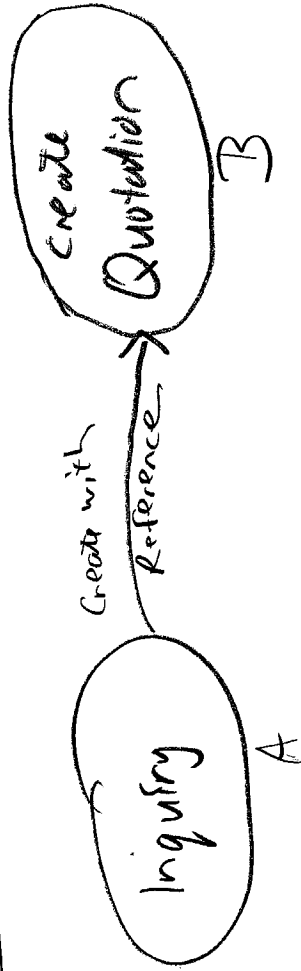
A single level
B multi level



Reference vs Proposed Item



Example



* Can not see Quotation in Inquiry doc flow!

Backorder Processing

Process manual

code: V-RA

code: C006

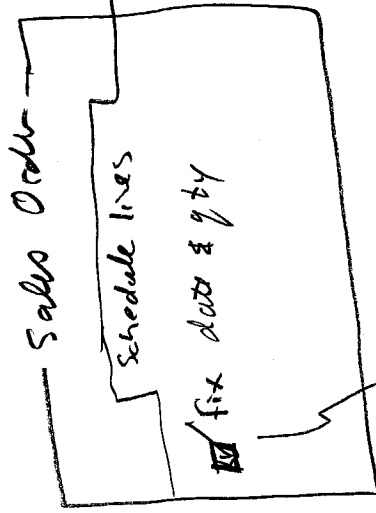
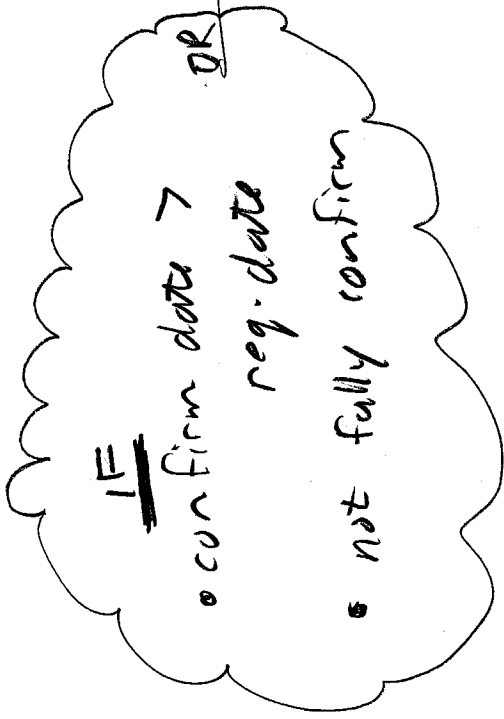
Reschedule (auto)

V-V2

→ reschedule

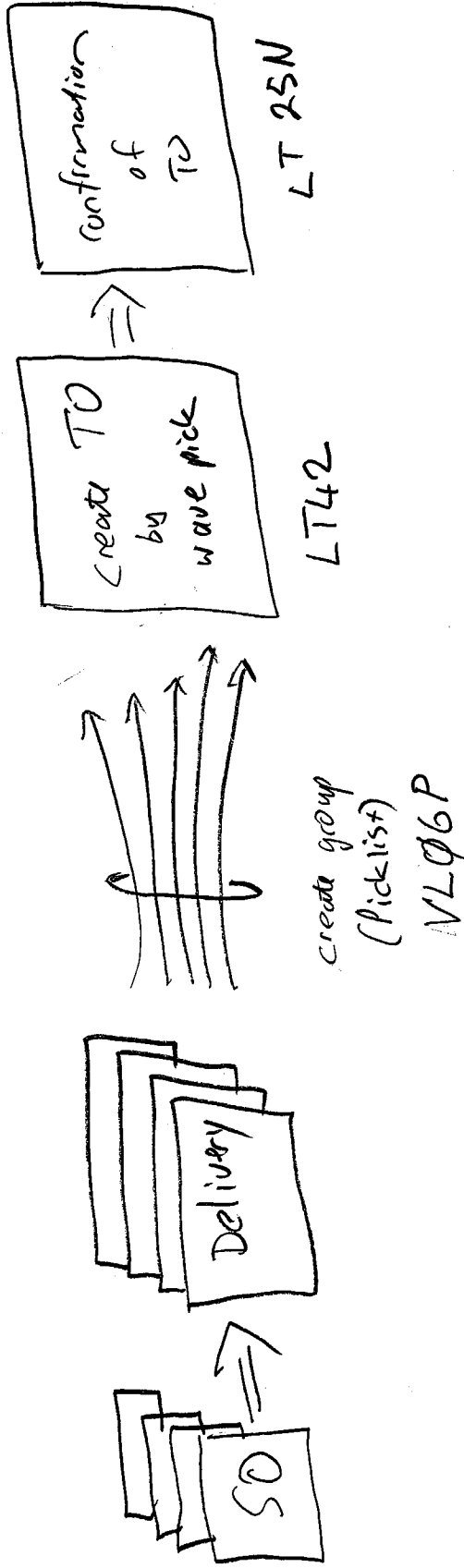
(SD → Sales → Info → Orders)

V.15



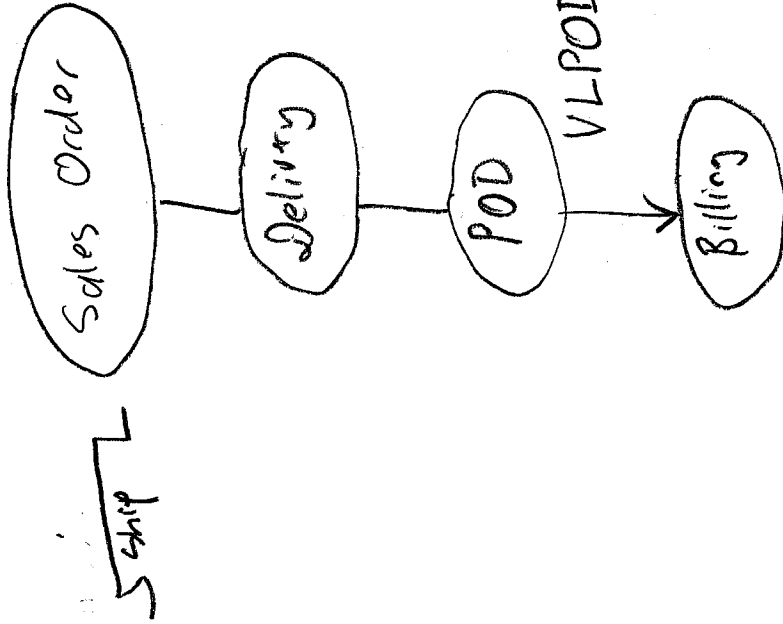
SAP menu: SD → Sales → Backorders

Picking using Lean WM



img: LE → Ship → Pick → Lean WM

Proof of Delivery (POD)



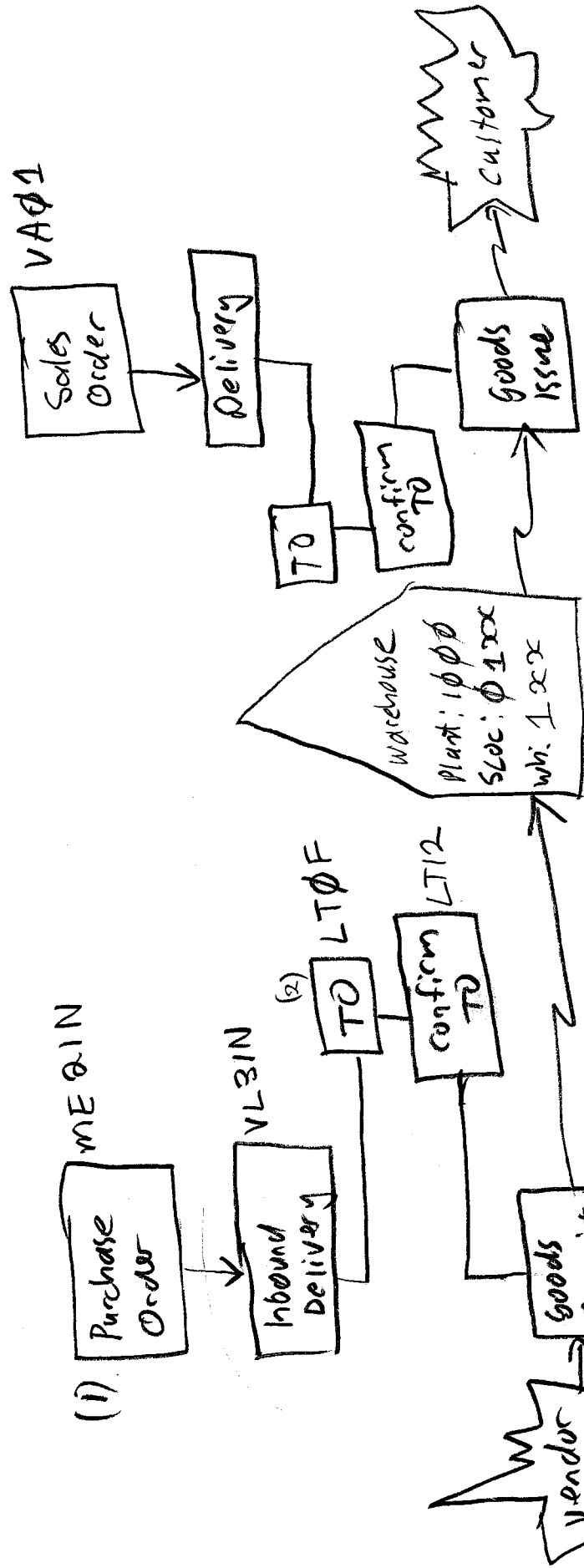
Prereq.

Img
set per 1102-CAT

+
Set on
customer
master

Img: LE → Ship → Del → POD

Inbound Deliveries



(1) Tcode ME&IN
Vendor T-K12Axx
P.org 1000, P.group Zxx
Material T-AU3xx
Price 10, Qty = 100
Plant 1000, SLoc 0100

Note (1) Tcode ME&IN
Vendor T-K12Axx
P.org 1000, P.group Zxx
Material T-AU3xx
Price 10, Qty = 100
Plant 1000, SLoc 0100

1100x confirmation
conf. control key ANLI

(2) Warehouse 0000
(3) Most inbound one only

PO → GR (no conf. control key)

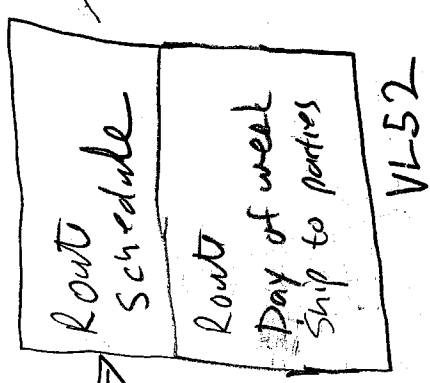
Route Schedule

(Group deliveries based on day of week / route / ship to parties.)

Based on

- Ship point
- Ship 2 party (mat)
- Tr. Group (cont)
- Ship. card (cont)
- GI day

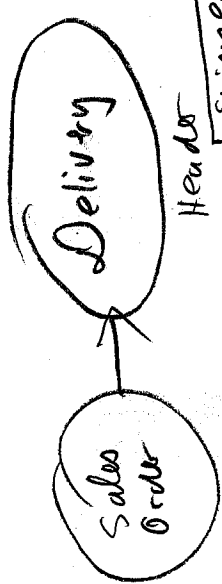
unique



create picking docs based on "Route schedule"

VL35

from SAP 4.5



Header

im [sn. line] → [ship]

master data: LE → master data → Transportation → Routes → Route Schedule (VL52) → ship point

IMG: LE → shipping → Basic ship → Routes → Route Sched defter → Sales Doc Type → Deliv. Type

Shipping - partial deliveries

Set in Customer master OR customer-material into rec

Partial del. per item:

Partial allowed - specify max. deliveries

(at any date)

A ship once & complete
keep open if qty = 0

(create only 1 del)

B ship all or complete ?

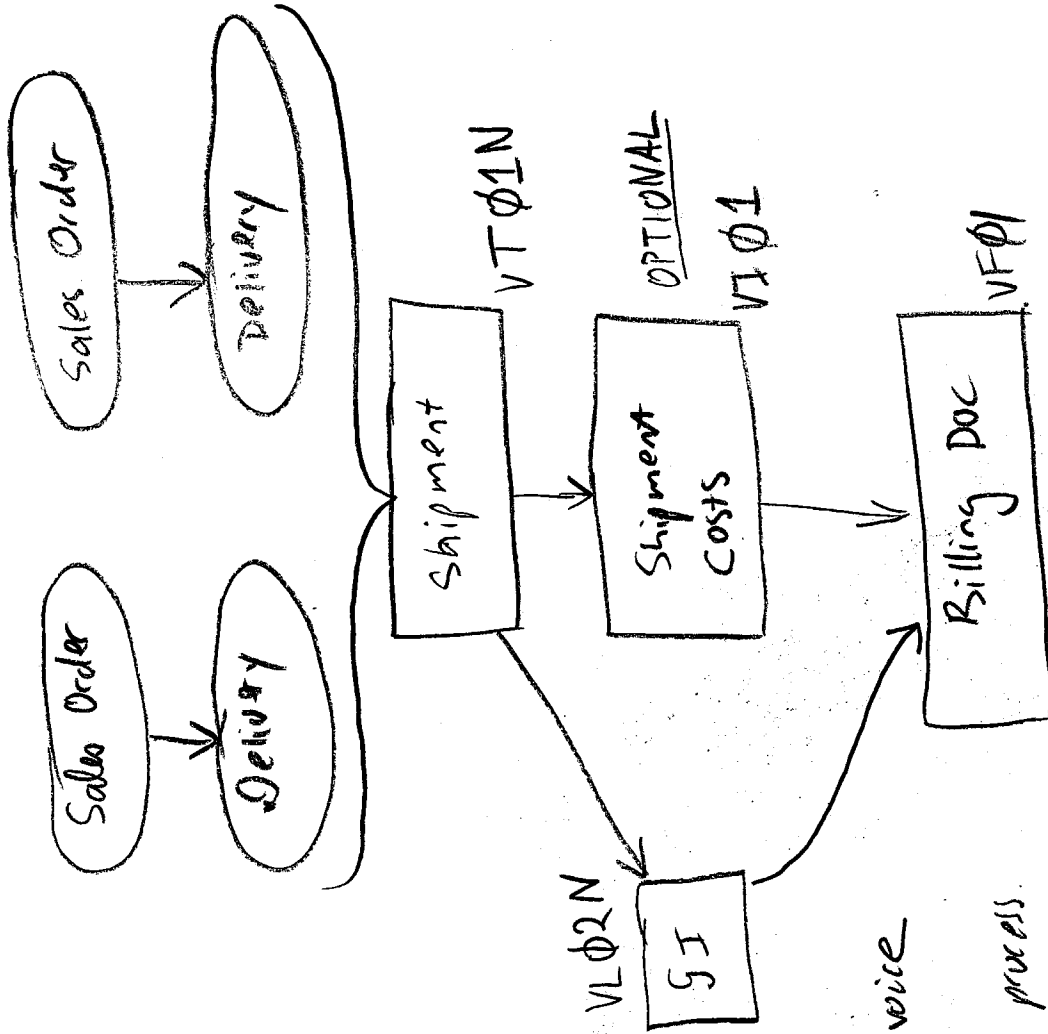
(only complete allowed)

C wait till ALL is available

D keep on sending 'till rejected

Transportation

cust. 2300
 mat 1400-1000



Why Transportation

- Track deliveries
- add cost to invoice
- Route Planning
- manage returns process

shipment cost could be included in billing.

confis
 • Delivery type of Rel. for Transport

Planning Point: 1000
 ship. type: 0003

Delivers

• Point 1000
 • Customer 2300

NA

• Agent 1058

Cost cal

Proc = ZDF COP

Planning
 Shipment completion

Additional Notes on Slide on Page 18-15

Data Determination in Access – Price Book

Result of one condition type – is condition record for next calculation

The new access type field in the **field level of the access sequence** configures these functionalities.

- Blank Field in fixed key part
- A Field in free key part
- B Key field to be determined in access
- C Data field from condition table

Change View "Fields": Overview

Table view Edit Goto Selection criteria Utilities System Help

Access **PBU** **10** Customer data (generic)

Table **146** Customer hierarchy

Dialog Structure

- Access sequences
- Accesses
- Fields

Condition	I/O	Source of constant	Init	ATyp
UKORG	◀		<input type="checkbox"/>	
UTWEG	◀		<input type="checkbox"/>	
SPART	◀		<input type="checkbox"/>	
UKBUR	◀			A
UKGRP	◀			A
KDGRP	◀			A
KUNRG	◀			A
KUNAG	◀			A
KUNWE	◀			A

Field catalog Position...

SPRO | #wd#5079 | INS

Processing type in access

Definition

The processing type determines how the corresponding field is used for the access. The field can be marked as belonging to the fixed/free key part or else as not relevant for the access.

Fields that are defined as data fields for the definition of condition tables are automatically marked with an access type.

Application help | Technical info |

All these techniques are used in the following example – **Price Book** – that was deduced from projects of the ~~fire~~-industry.

Pricing procedure **RVAA02** contains the described logic:

Only explain the interaction of the different condition types.

PBU Price Book determination

(most important detail: → **Cond. Class "H" - Determining sales deal**)

With PBU you can find a sales deal of type PRBU (Pricing Book).

The sales deal number is a field in the fixed key-part for the subsequent condition type PBUD.

PBUD Price Book Basis

(most important detail: → **Cond. Table 144**)

The fields *condition pricing date*, *price list type* and *scale base value* are determined.

PBBS Base Price

(most important details: → **access sequence PR01 , requirement 202 in pricing procedure RVAA02, cond.type PBBS**)

The base price is to be determined using the *pricing date* (KODATU) and the *price list type* (PLTYP_D in structure KOMPAZD) found by PBUD.

PBUP Price Book Gross Price

(most important detail: → **alternative formula for condition base value 202**)

The gross price is to be determined with the *sale base value* (KSTAFU) found by PBUD and a percentage given from PBUP on the base value found by PBBS.

Number	546668
Version	2 from 27.09.2002
Status	Released for Customer
Set on	01.10.2002
Language	EN
Master language	DE
Short text	FAQ: Delivery split when creating deliveries
Responsible	SAP AG
Component	LE-SHP-DL Delivery Processing

Long text**Symptom**

This note contains answers to frequently asked questions regarding topic delivery split for the creation of outbound deliveries with reference to sales orders:

Question catalog

1. Which header fields lead to a delivery split?
 2. What is meant by delivery split according to warehouse number?
 3. Why does a split occur due to deviating partners?
 4. Which fields lead to the split for internal settlement?
 5. Why do different transportation groups lead to the delivery split?
 6. How can the split be affected via the copy control?
 7. How can a delivery split per schedule line be explained for scheduling agreements?
 8. Which options are there to find out the reason for a split?
-

1. Question: Which fields lead to a delivery split?

Answer:

Basically, all fields which are copied to the header of the delivery (table LIKP) via the routines of the copy control lead to a delivery split. Furthermore, some fields are copied to the header by all means and are relevant for the split there.

Split fields that cannot be changed are:

VSTEL	Shipping point
KUNNR	Goods recipient
ROUTE	Route

All partners which stand in the partner schema of the delivery and that are copied from the preceding document or that are determined from the customer master record of the goods recipient are a splitting criterion. The only mandatory partner of the outbound delivery is the goods recipient. If, for example, no statistical data is affected, you can delete the sold-to party from the partner schema for deliveries with order reference and it is then no splitting criterion anymore. The following may lead to a split in the delivery:

- o Different partner numbers for the same partner function.
- o Deviating addresses of the partners even if the partner number is the same. Here, only the address number is crucial for the split; the address list parts are not checked.
- o The forwarding agent as an additional partner in one of the sales orders involved. In contrast, additional partners with other roles do not lead to the split in the standard. For this, you can find more information in SAP Note 448919.

4. Question: Which fields lead to the split with internal settlement?

Answer:

An outbound delivery is relevant for internal settlement under the following conditions:

- o If the company code of the sales organization of the delivery deviates from the company code of the delivering plants of the delivery items and
- o if in addition the billing type for internal settlement has been entered at the order type which is the basis of the delivery.

In this case, the organizational data determined from the plant master is copied for internal settlement to the header of the delivery and is then split-relevant:

FKAIV	Billing type for internal settlement
VKOIV	Sales organization for internal settlement
VTWIV	Distribution channel for internal settlement
SPAIV	Division for internal settlement
KUNIV	Customer for internal settlement
PIOIV	Invoice date internal settlement (calendar identification)

A delivery split occurs if different organizational data has been assigned to the supplying plants relevant for the internal settlement or if the sales orders to be delivered have different billing types for the internal settlement. For this, you must refer to note 324976.

5. Question: Why do different transportation groups lead to the delivery split?

Answer:

deviating from each other and therefore indicates to a certain extent which data could have led to a split. Another option (as of Release 4.6) is the activation of the split analysis according to note 399912. This split analysis is written in the log of collective processing.

Other terms

Reason and Prerequisites

Solution

Valid releases

Software Component	Release from	to
SAP_APPL SAP Application	470	- 470
	46C	- 46C
	46B	- 46B
	45B	- 45B
	40B	- 40B
	31I	- 31I

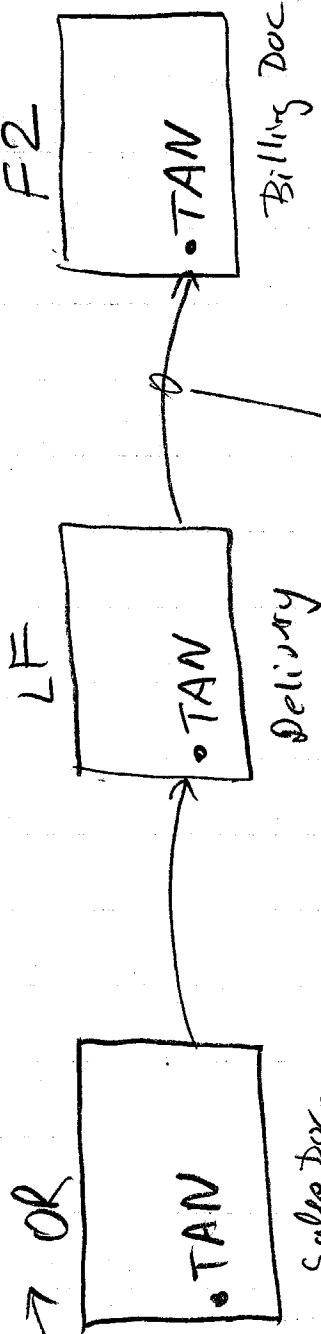
Further components

LE-SHP-DL-LA
Inbound Delivery

Reference to related Notes

Number	Short text
105003	Several deliveries for rush order
399912	Split analysis activation during delivery creation
355404	Why was there a delivery split during creation?
651271	Undesired delivery split when creating via BAPI

Billing Doc



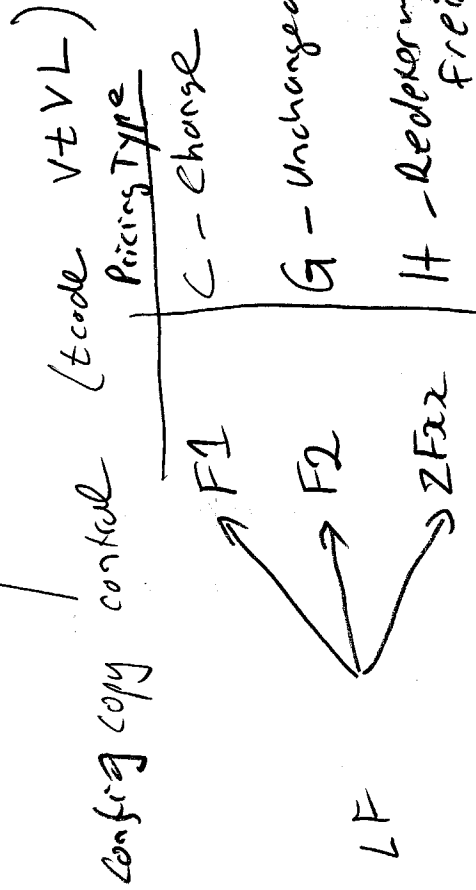
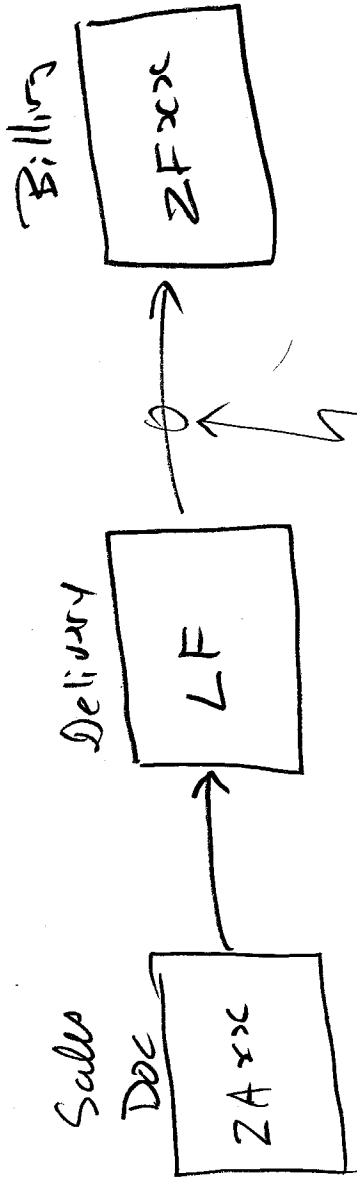
Delivery/Order related
set in Doc type (UOV8)

Default Billing type set in config
of sales doc (UOV8).
 ✓ can be changed at
time of billing if allowed
by copy control.

Item Cat ⇒ default to source
Qty/Price settings in copy control:

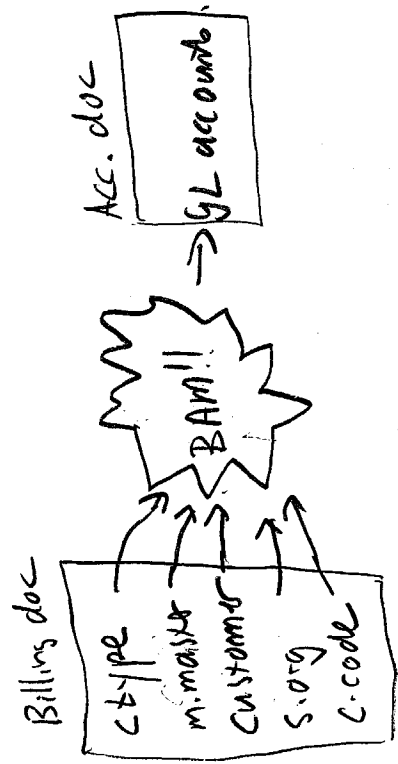
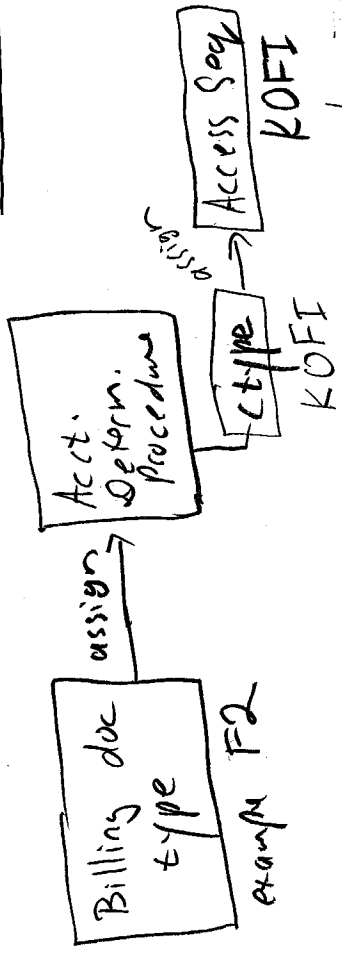
vtfl	Delivery doc	⇒ Billing doc
vtfa	Sales doc	⇒ Billing doc
vtff	Billing doc	⇒ Billing doc

Billing - Copy Control (exercise)



c-type	KF00
c-category	F (Freight)

Account Determination Procedure



config:
 SD → basic functions →
 Acc Assign → Lev. Acc
 Link to
 c-code
 c.c. 1000
 COA INT

Assign (KOA)
 ↓
 GL accounts

Fields in Table

Table	Chart of Account	Sales Org	AAg cust	AAg mat	Act key	GL accounts
1	✓	✓	✓	✓	✓	~
2	✓	✓	✓		✓	~
3	✓	✓		✓	✓	~
5	✓	✓			✓	~
4	✓	✓			✓	~

pricing procedure +
 condition type
 example RUAAD1,
 KFP → ERF - Freight
 PRP → ERL - Revenue
 KPP7 → ERS - Salo ded.
 BOP1 → ERB - Rebut. #.
 MWST → MWS - Salo Tax
 Act key

material master
 ↳ salo org 2
 (+ mat. types)

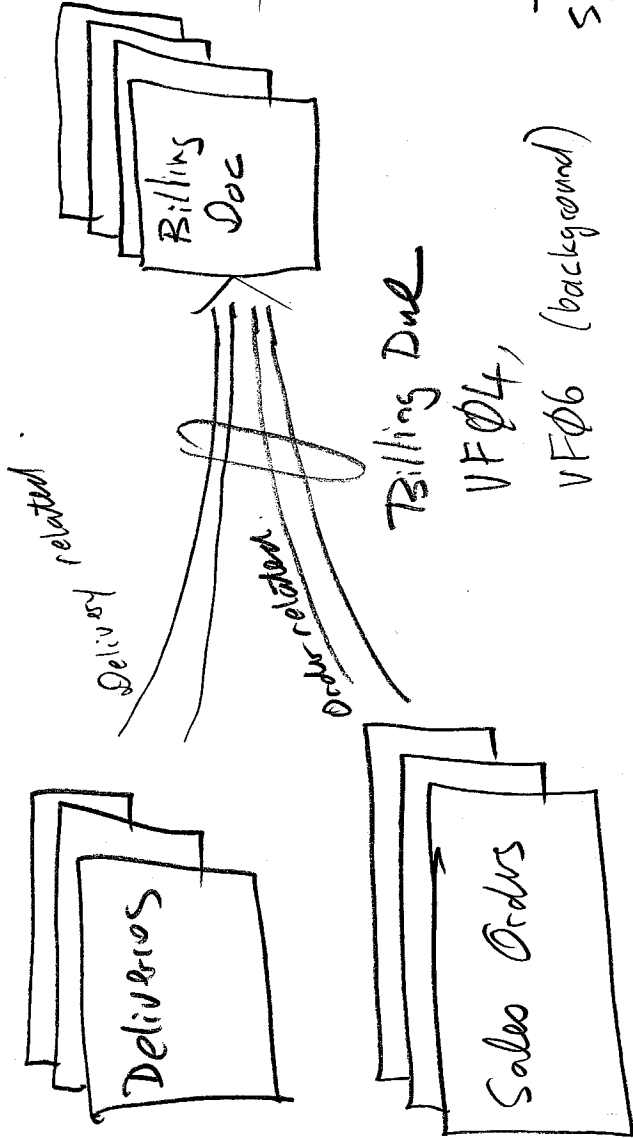
customer master
 ↳ Billing
 (+ cust. ad. group)

example
 1000

access

← "main"
 ← "backup"

Invoice Split



Question
 When IS billing items combined & when is it split?

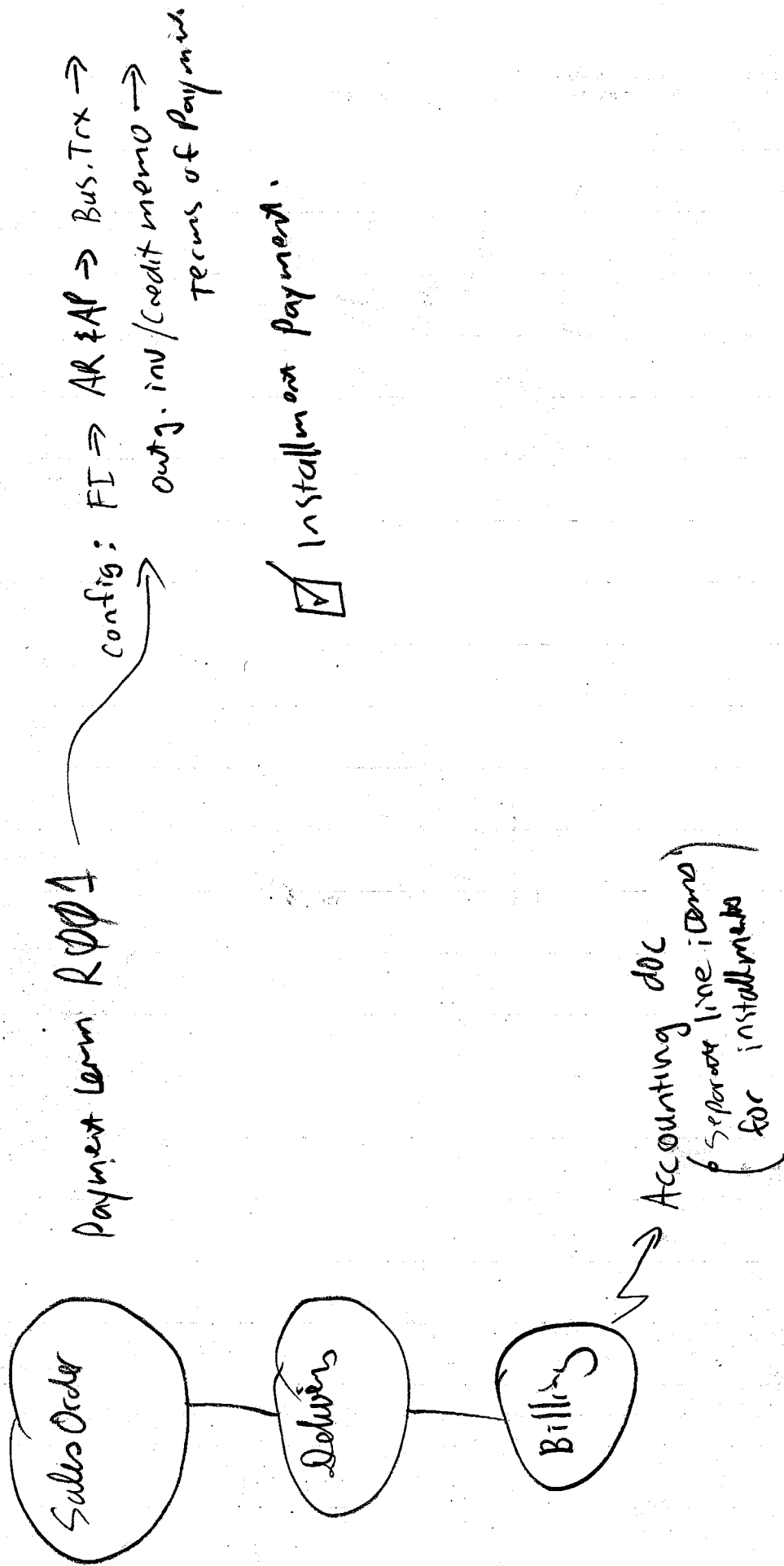
Answer
 split if Billing header info is different +

Examples of VBRK/VBRP
 1 → D-channel / Div
 2 → S-channel / Div, Ref doc

What is set up in copy control → Item level
 Data VBRK/VBRP (see tcode VF06)

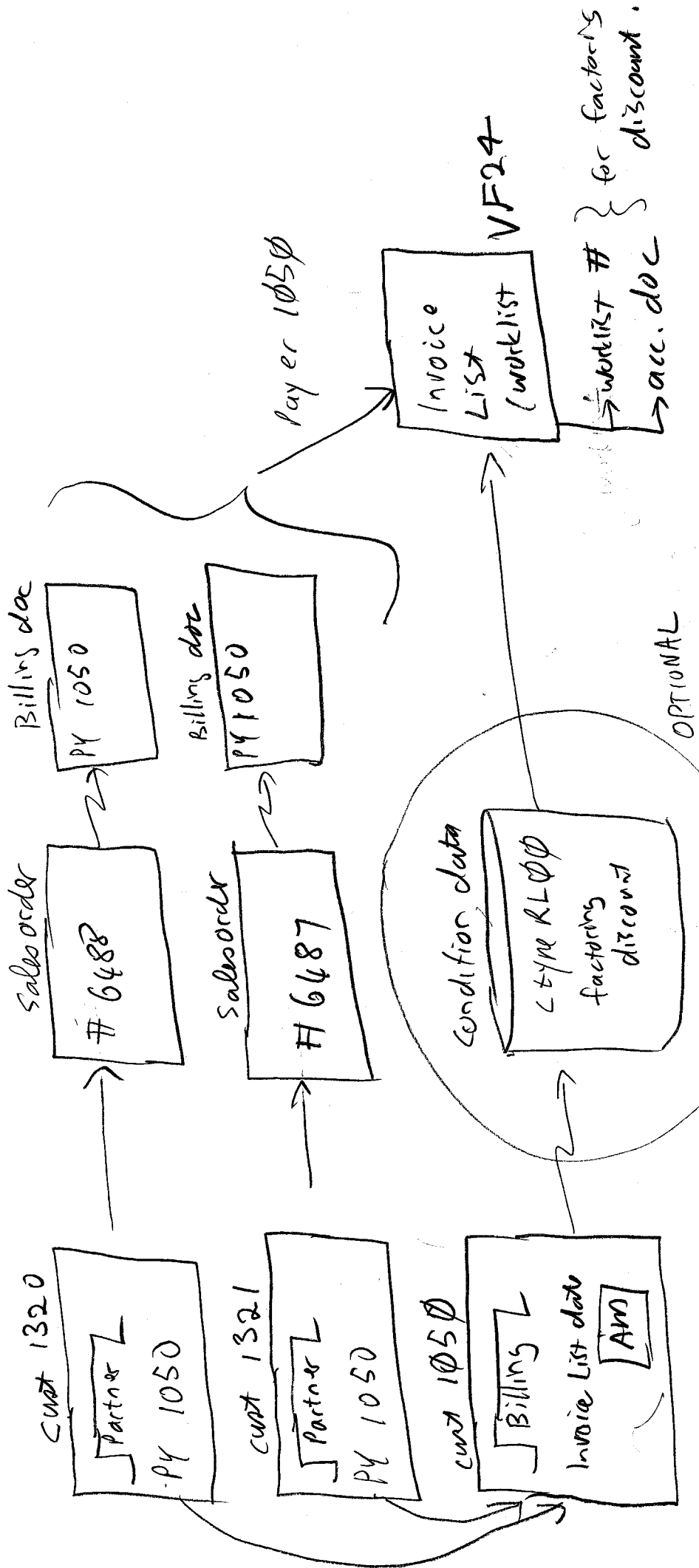
{ Use "Split Analysis" to see reason for split }

Installments



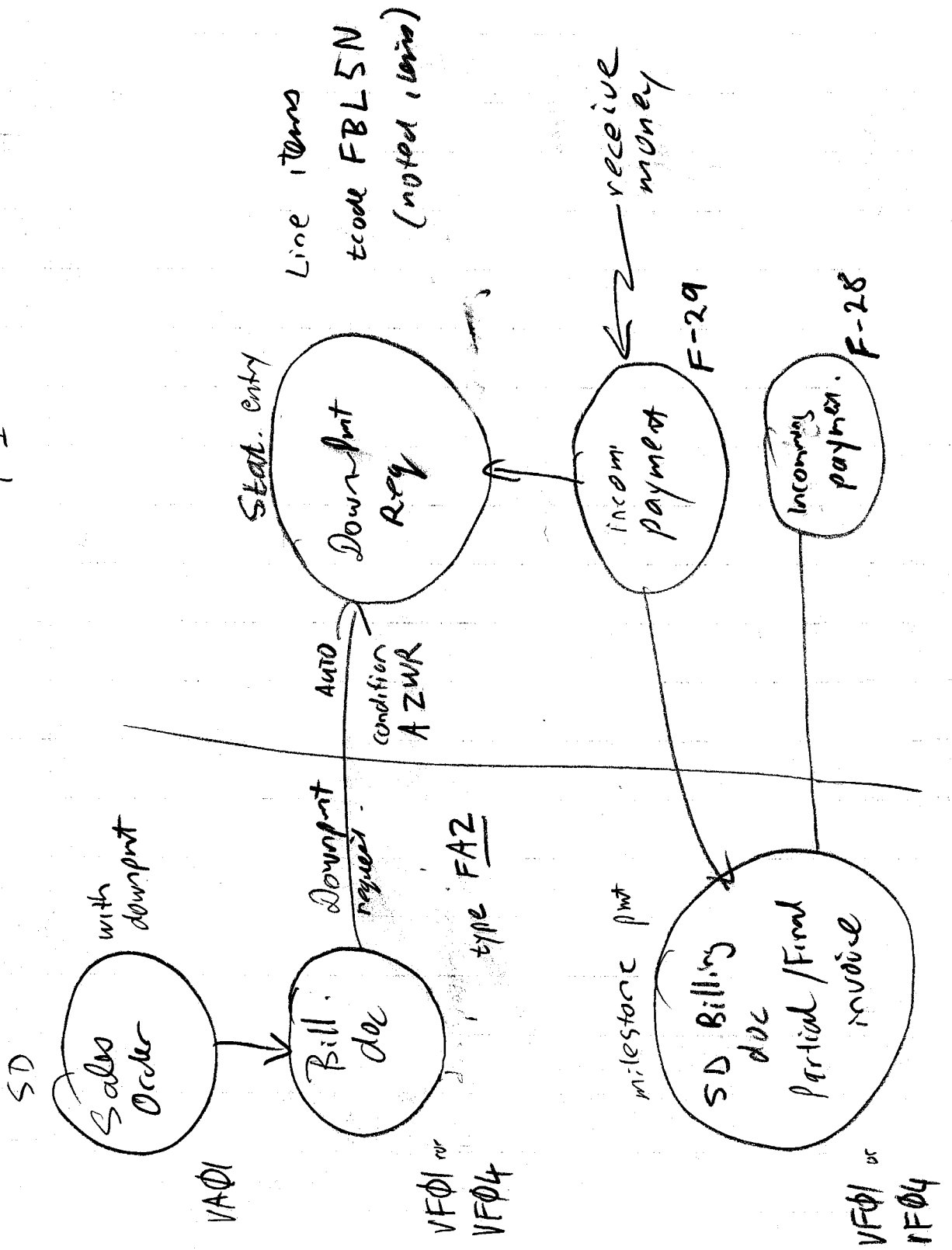
Invoice List

Group Billing docs together in an Invoice List.

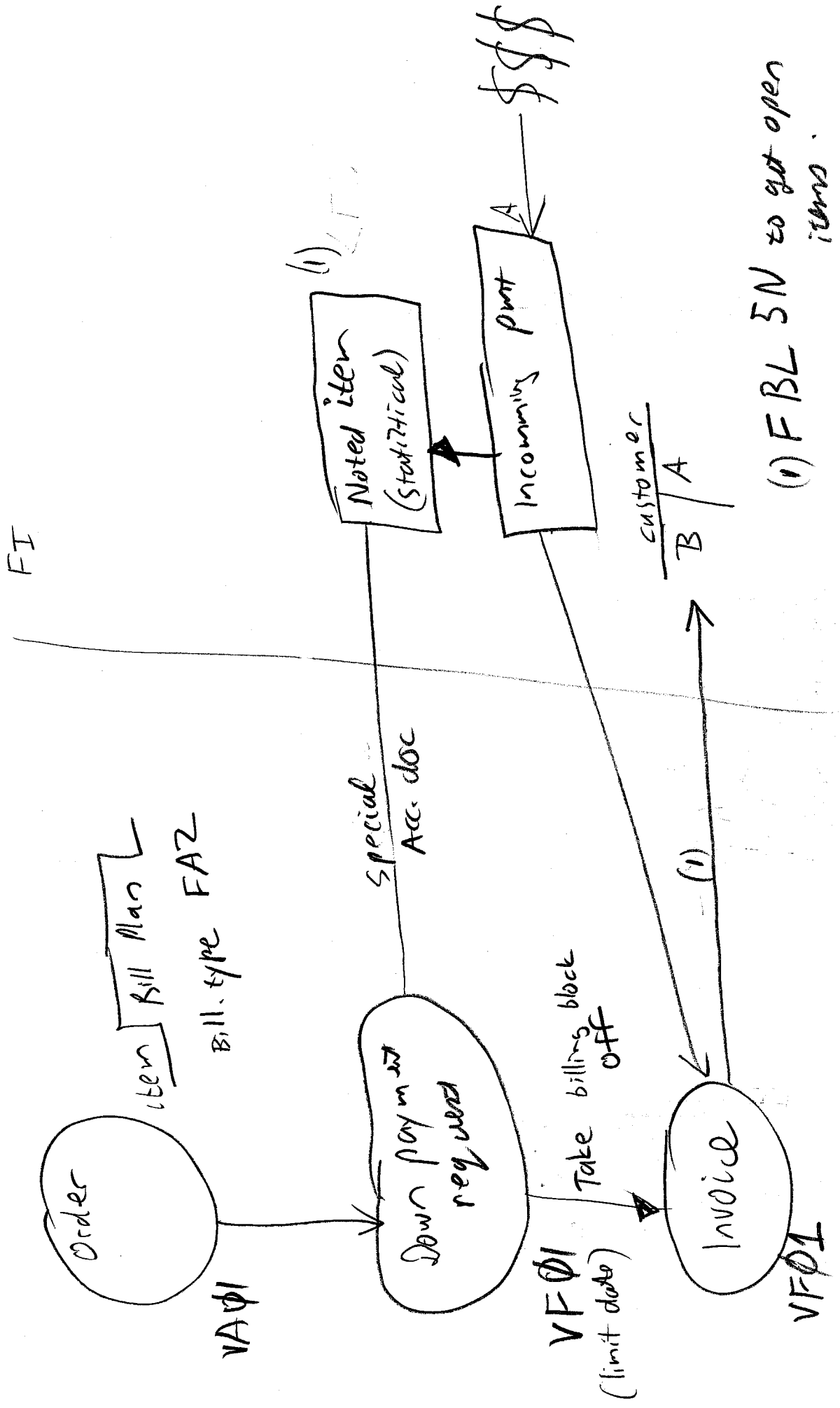


Down Payment

FI

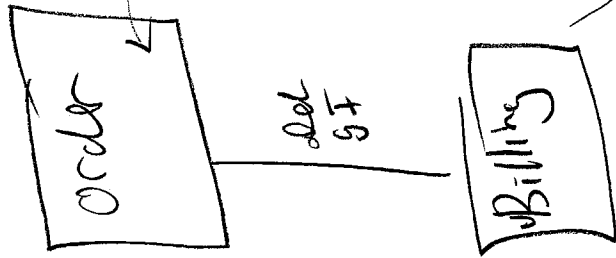


Downpayment. SD/FI



(1) FBL 5N to get open items.

Installment Plan



use PMT loan example

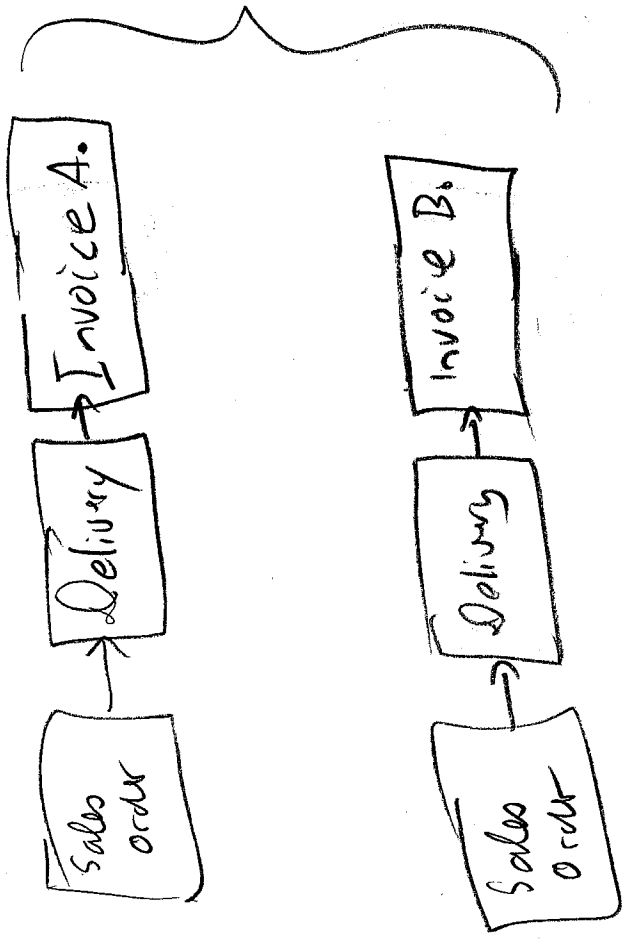
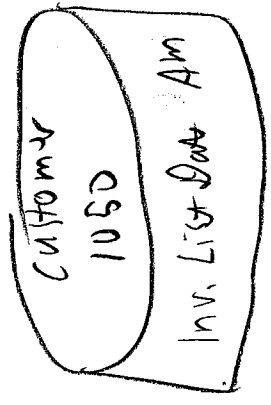
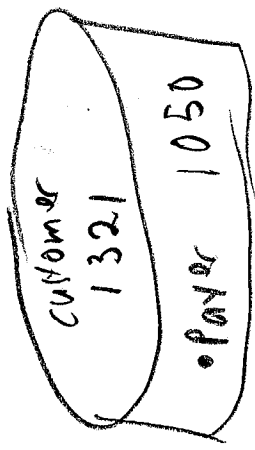
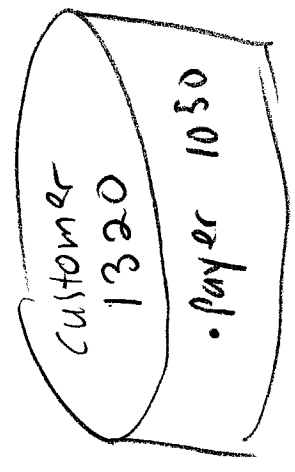
RDD1

confis

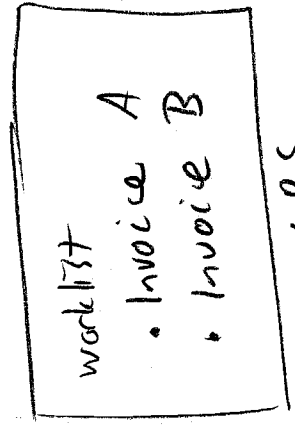
FI \Rightarrow AR \Rightarrow Bus TX \Rightarrow Outgy. Inv / cred \Rightarrow
Pmt loans
 installment pmt.

Accounting
(split customer pmt in 3)

Invoice Lists



work list
for invoice
LIST
(VF24)

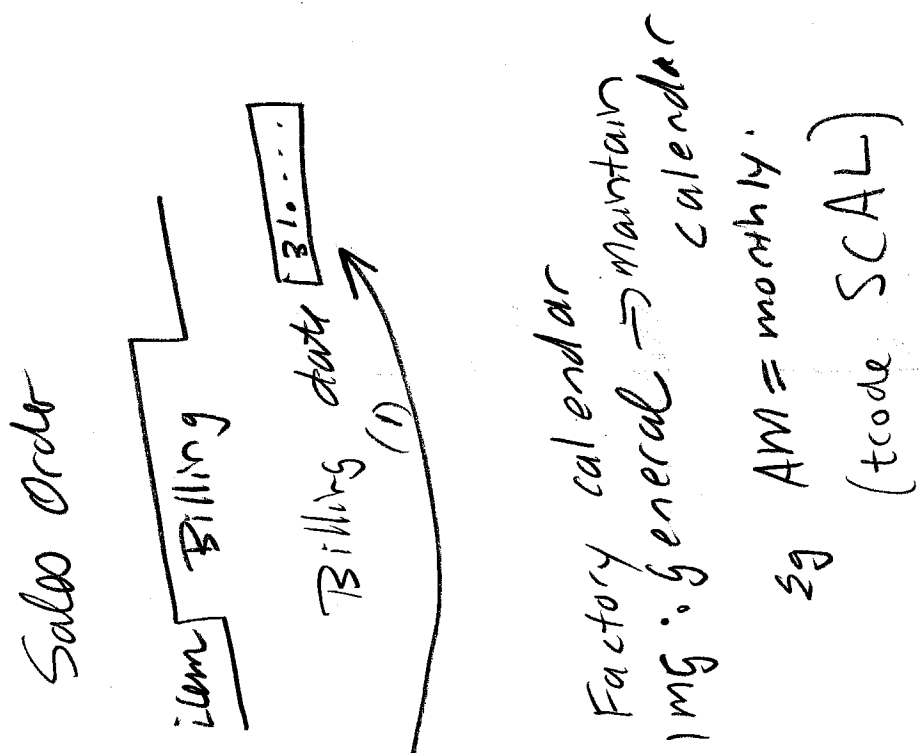


it add
condition types to

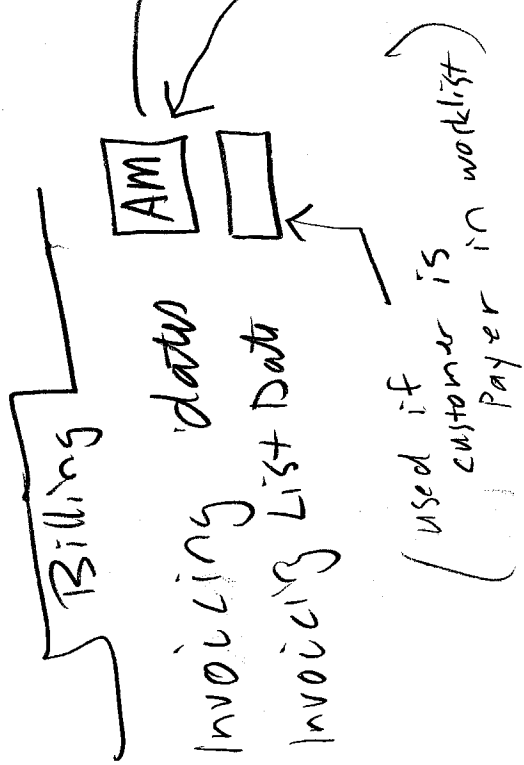
doc MW15 Factors discount type LRS
RL ØØ



Invoices on specific days

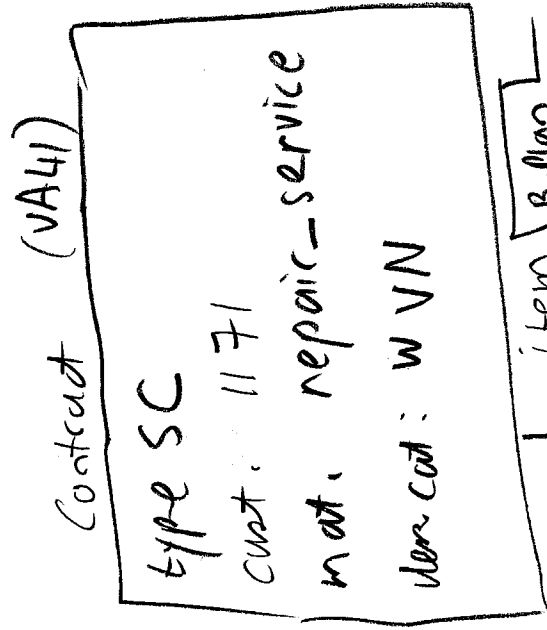


customer master
(sales Area)



(1) Depending on setting in customer ELSE use MG I date

Billing Plan (Periodic / Milestone)



PS

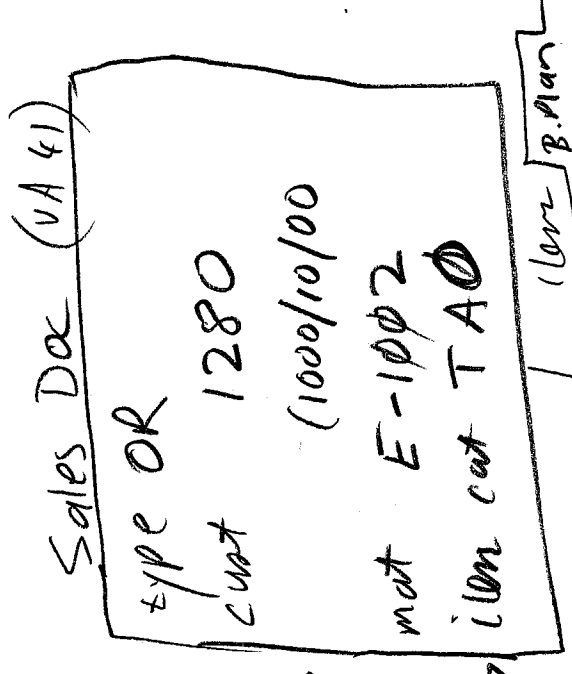
Config

- order or item cat (vov7)

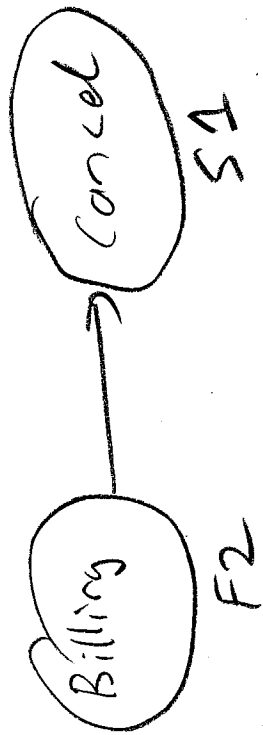
link to billing

type

• SD → Billing → Billing Plan.



Negative Posting



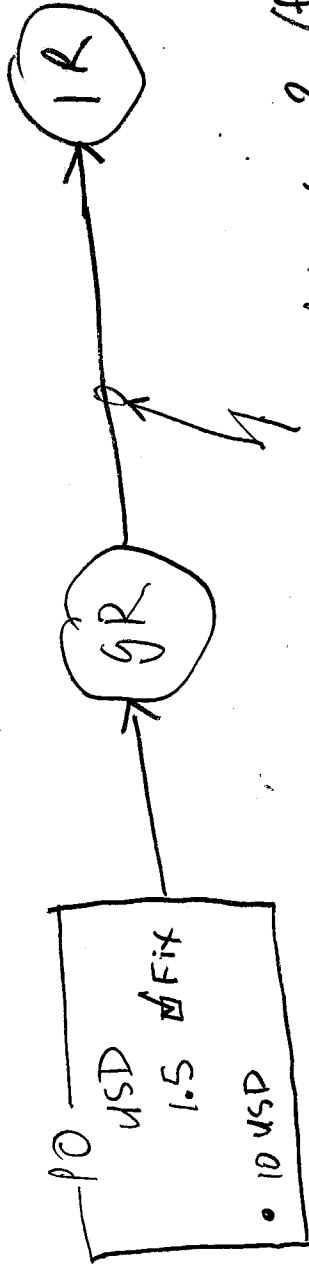
Display custom balance (FDIØN) <not allowed>
 <negative posting allow>

	Debit	Credit
Before Bill	0	0
After Bill	100	0
After Cancel	0	0

	Debit	Credit
Before Bill	0	0
After Bill	100	0
After Cancel	100	100

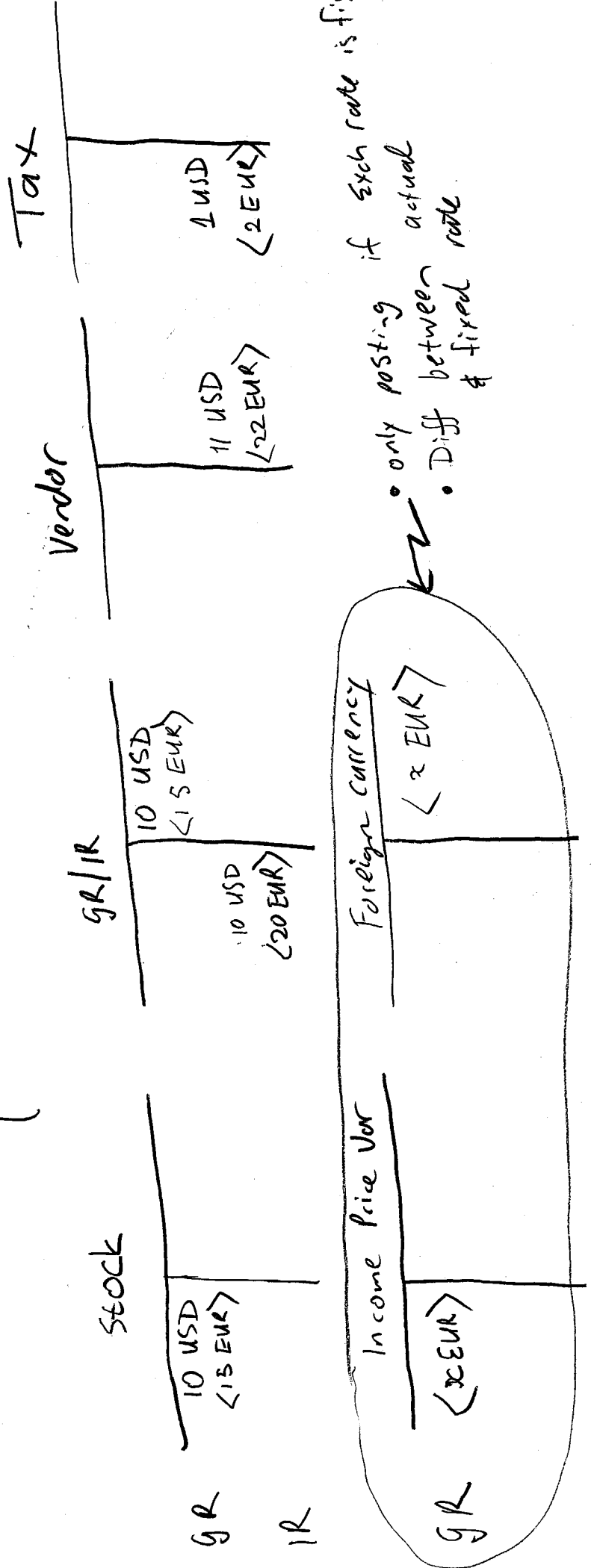
Exchange Rate Sample

Company currency = EUR



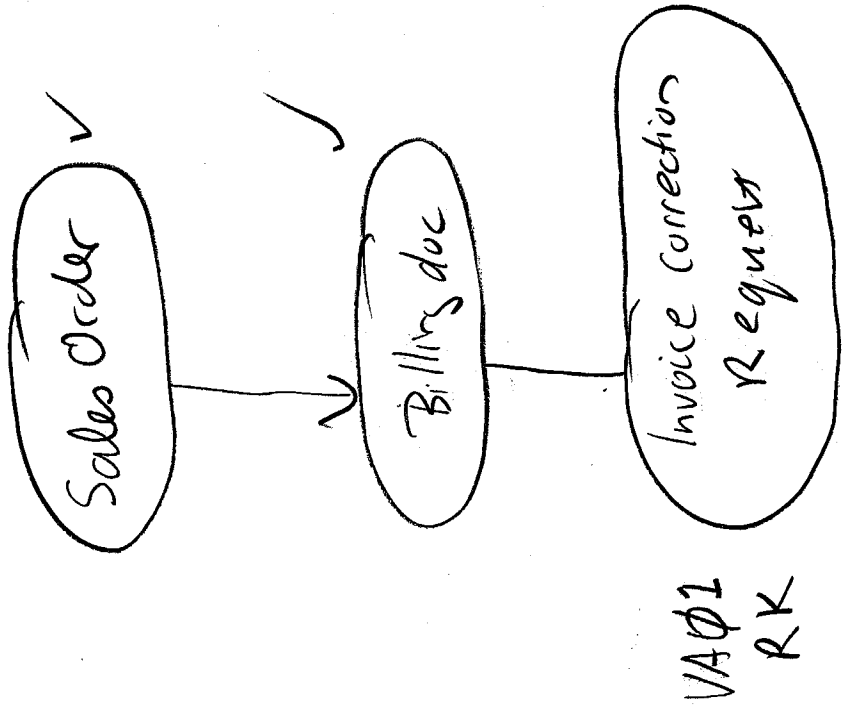
change rate to 2 (from 1.5) before doing IR

(Exchange rate: 1mg: gen Settings → Currencies → EUR exchange rate)

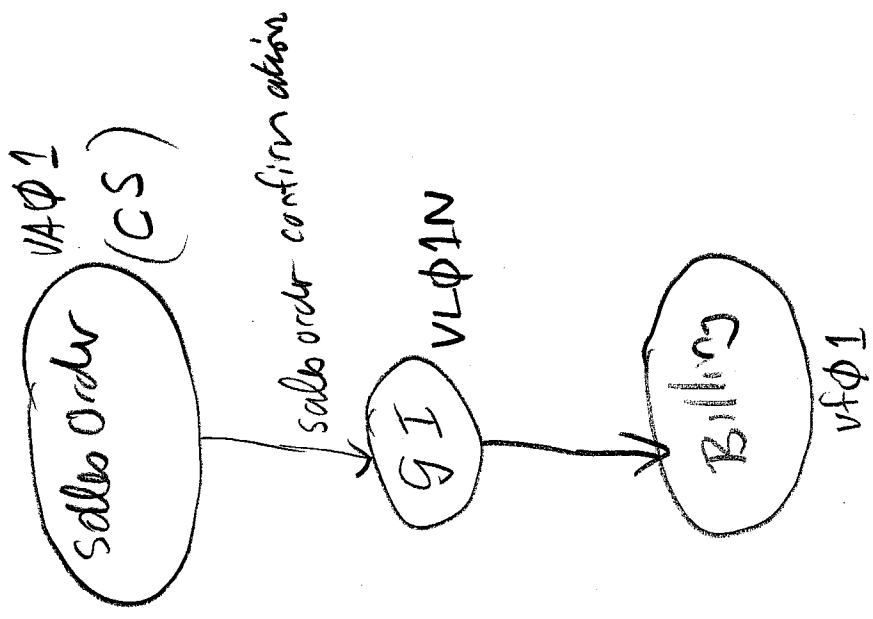


only posting if exch rate is fix
• Diff between actual & fixed rate

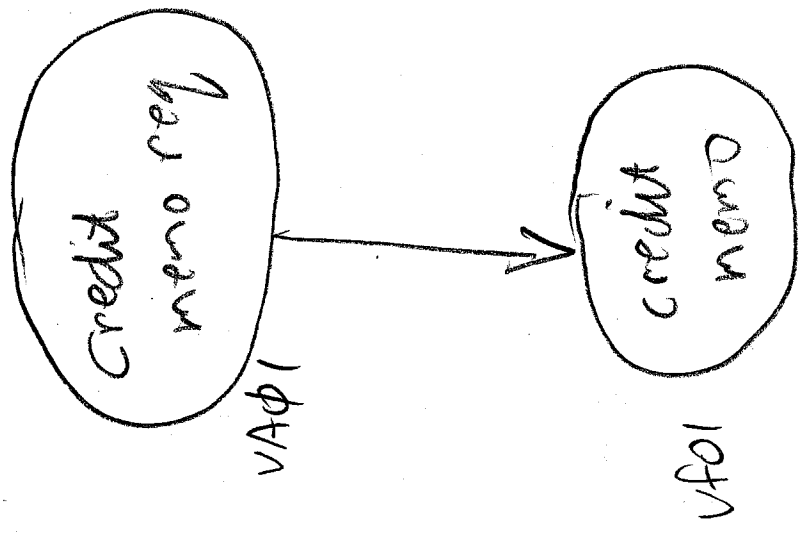
Invoice Correction



Cash Sale



Credit memo



<100 use 100>

Common master data

if	then	use
S.org, DIV	DIV conditions	DIV customer
1000, 02	00	00

if	then	use
S.org, D.Ch	D.Ch. for CONDITIONS	D.Ch for Cust/mast
1000, 10	10 \rightarrow 12 (3)	10 \rightarrow 12 (3)
1000, 12	12	12

- Demo
- (1) create S.O cust 702 (1000, 12, 00)
 - (2) create SO cust 702 (1000, 10, 00)
 - (3) Define common distr channel.
so that IF 10, then use 12

Example

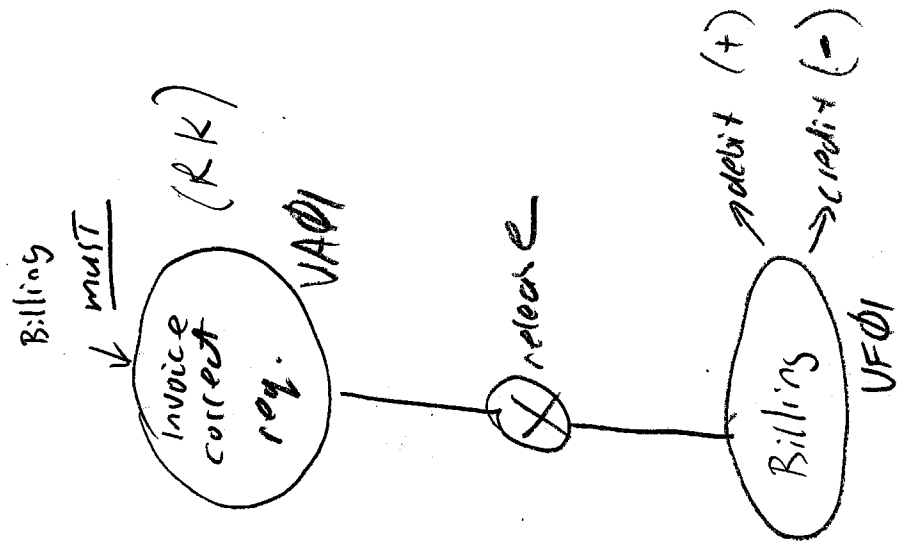
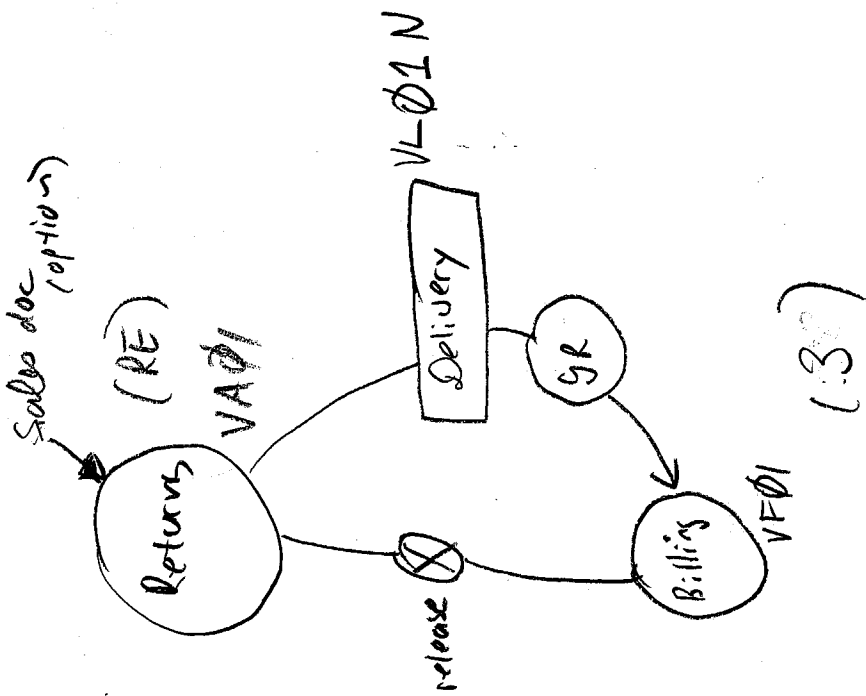
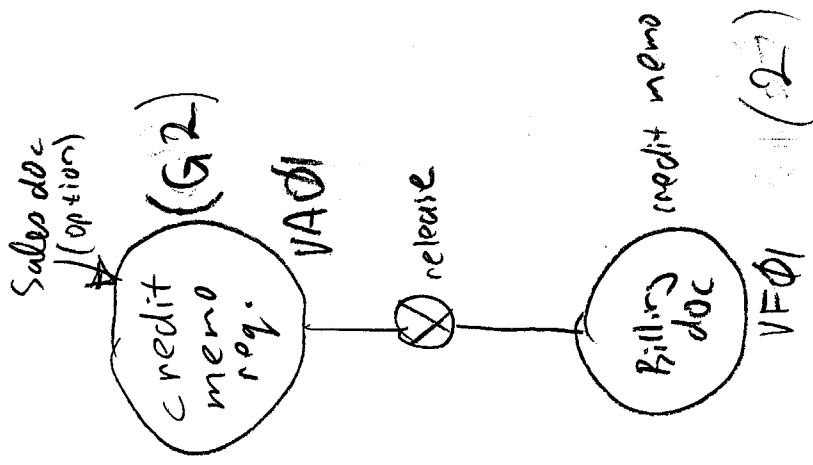
cust 702 \rightarrow 1000, 10, 00
(new) \rightarrow 1000, 12, 00

mat 1400-100 \rightarrow 100, 12

(DIV = 02
change to 00 for demo)

config: SD \rightarrow master data \rightarrow Define con..

Complaint Processing



Some config:

order type:

- del. related billing
- order related billing
- billing block
- reference mandatory

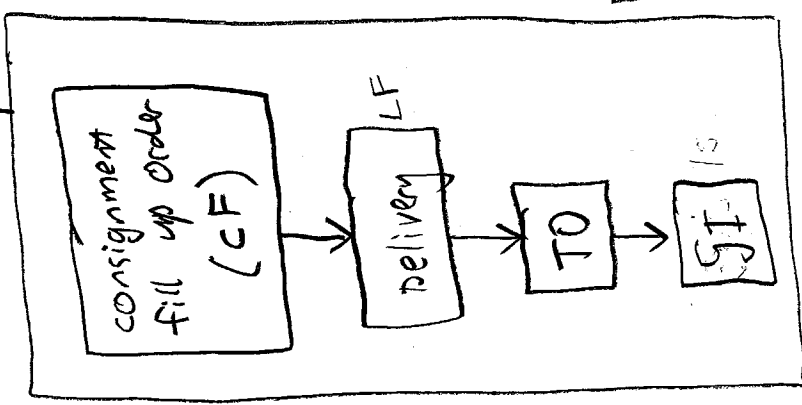
Item cat

- Del/order related billing
- Returns item

(demo)

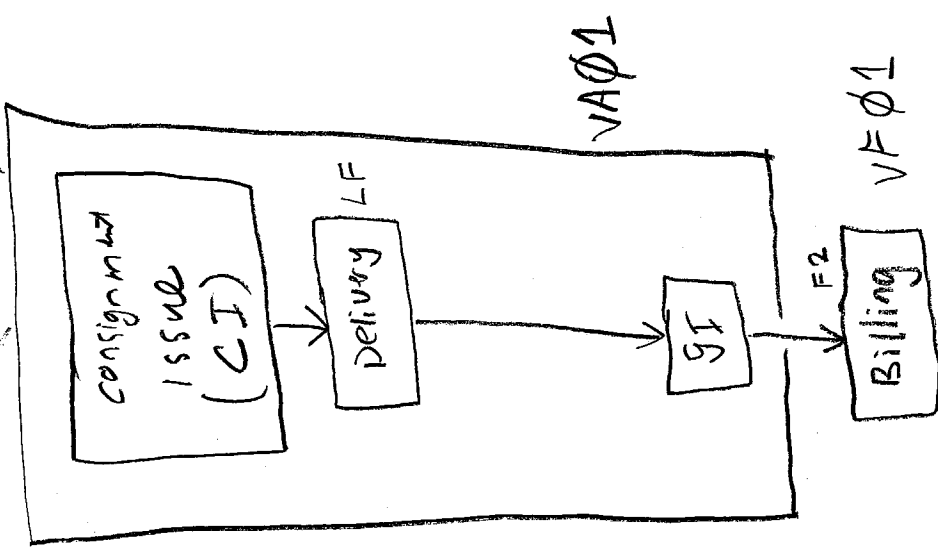
Consignment (outbound)

Fill up at customer



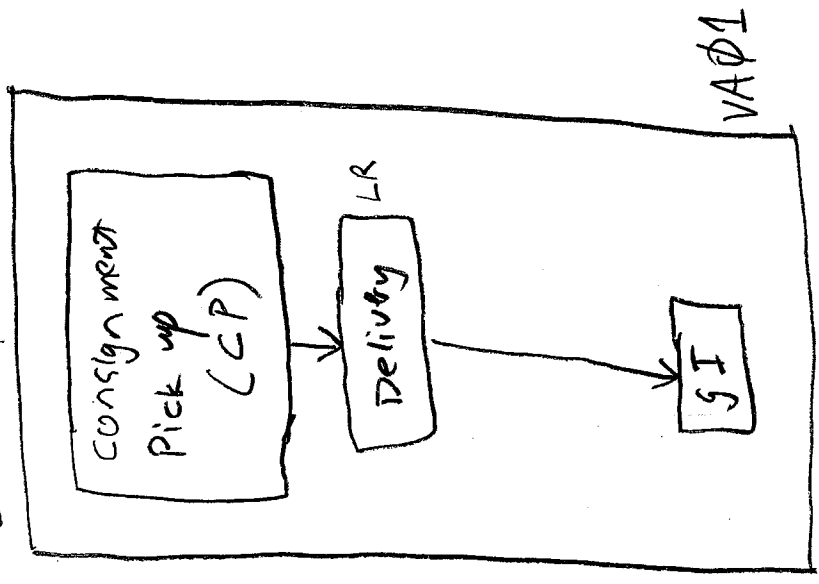
doc type CF
 - no billing type
 Item cat KBN
 - not relevant for Billing.
 Sched Line cat : EΦ → mtype-631

Customer use



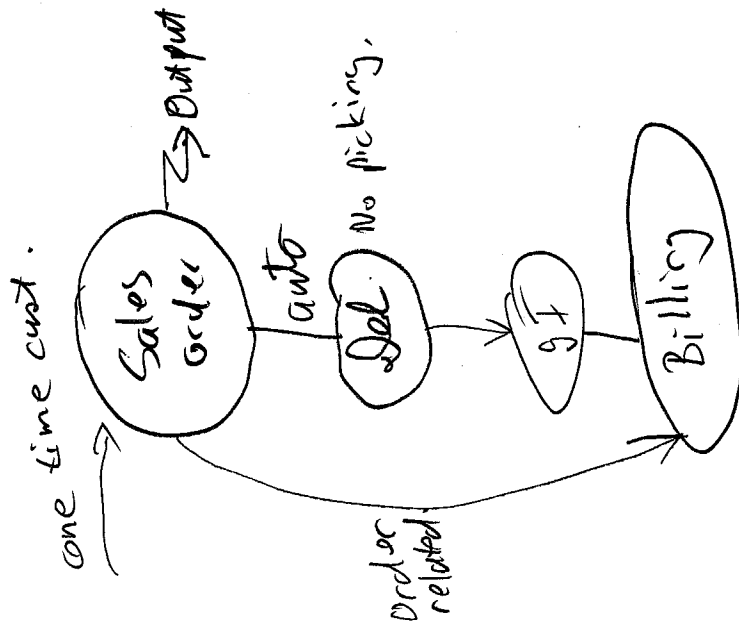
doc type CI
 - del related billing (A)
 Item cat KEN
 - del related billing (F2)
 Sch. L. cat : CΦ → mtype 633

Get back from customer



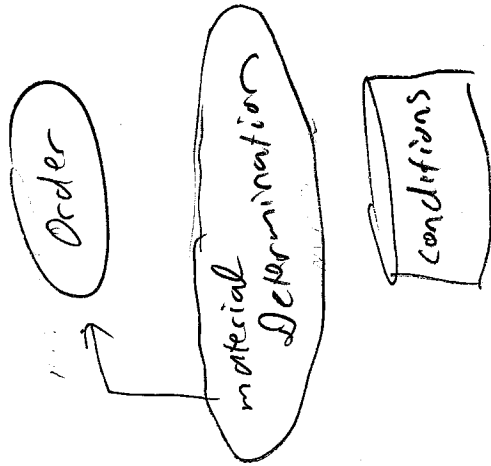
doc type CP
 - no billing type
 Item cat KAN
 - not relevant for billing
 Sh. Line cat : F1 → mtype 632

Sales to Employees (Cash sales)



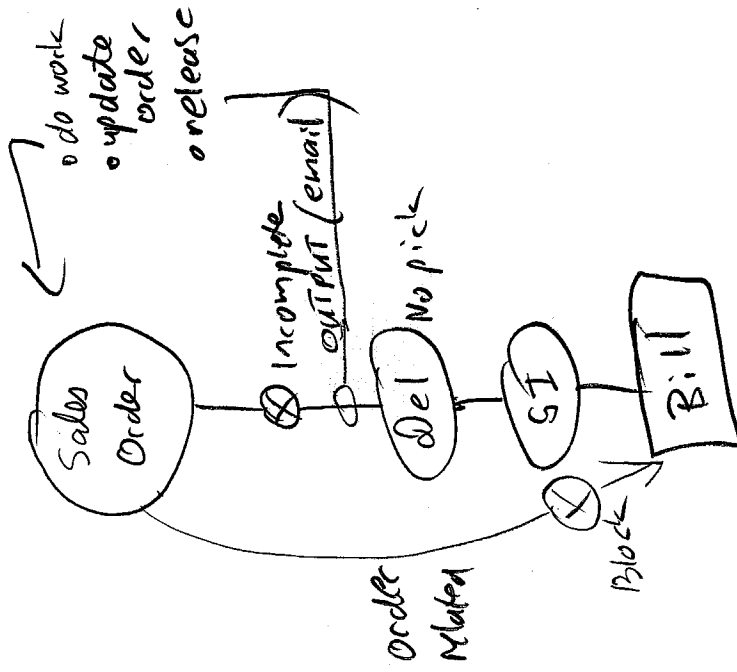
- cust master
- master conditions
- Config: doctype, item cat, ...

Material Determination



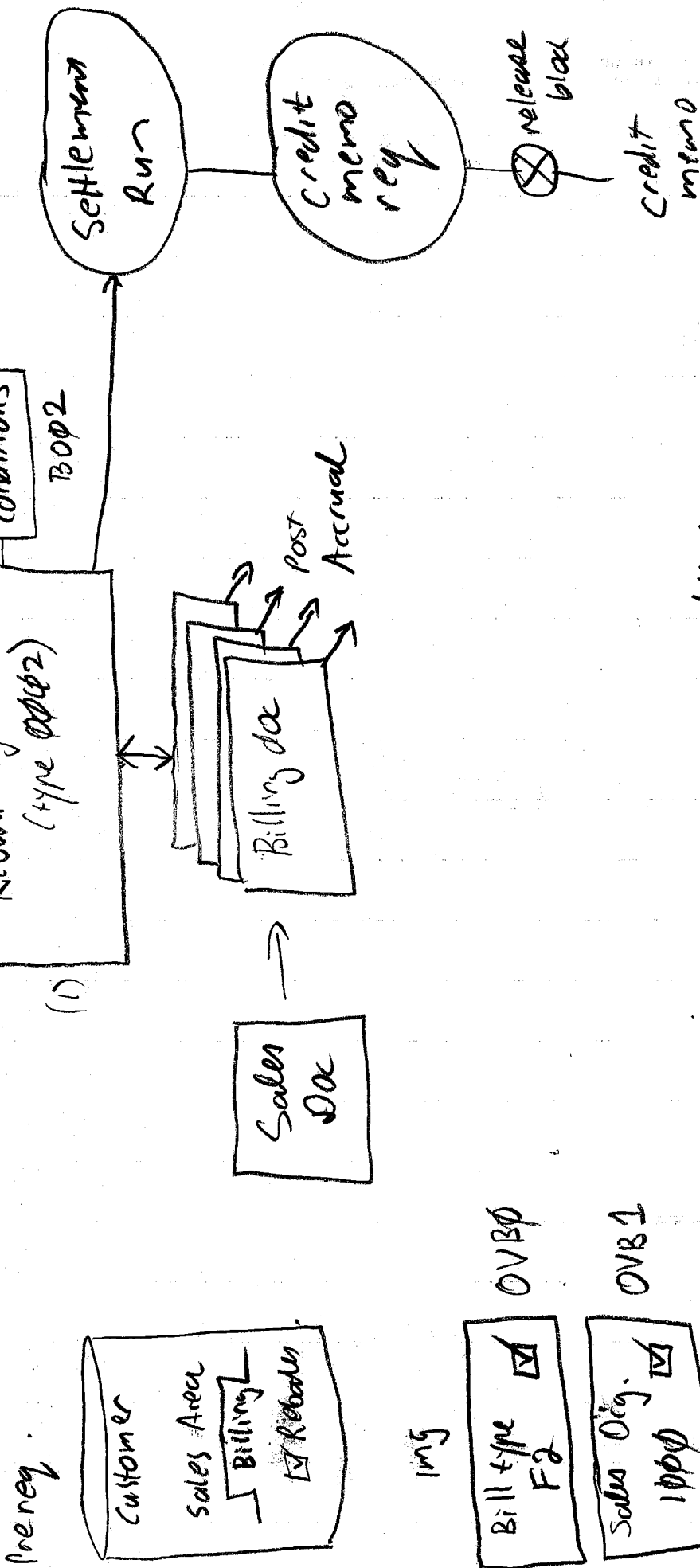
- Config: Access seq.
- set up master data.

Service Order



- config doc type, item cat.
- config output.

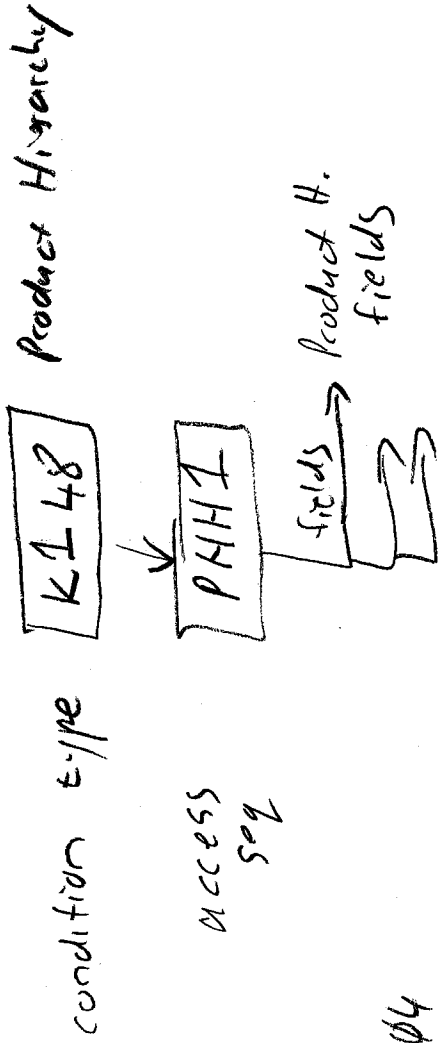
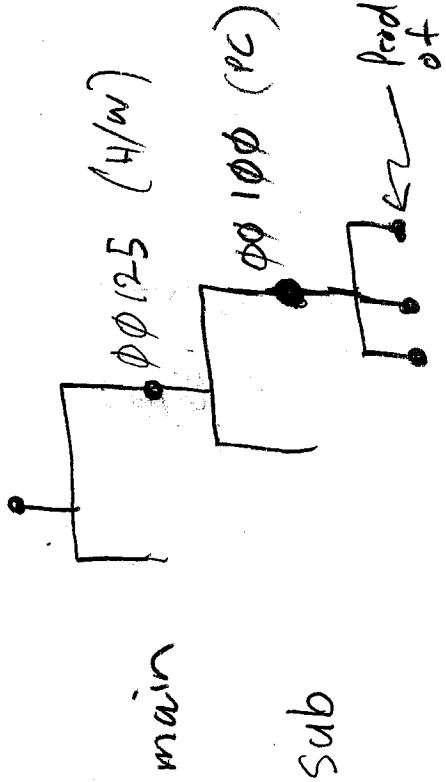
Rebates



(1) Display Rebate Agmt → conditions
 menu Rebate pay. → Drilldown

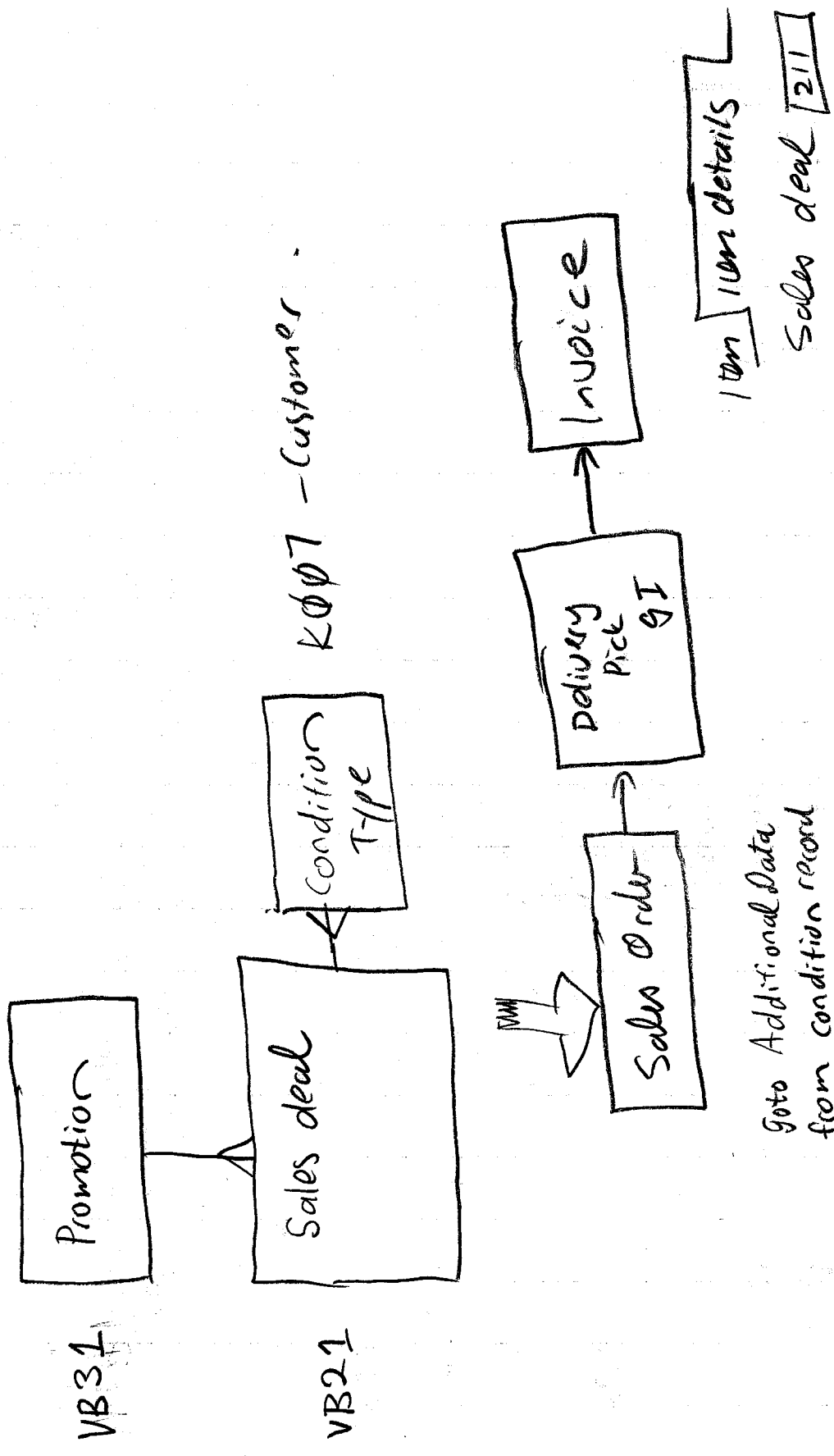
Product Hierarchy

Product Hierarchy -



- maintain K1148 (discount) for ØØ125-ØØ100 10%
- create Sales Order for DPC1004

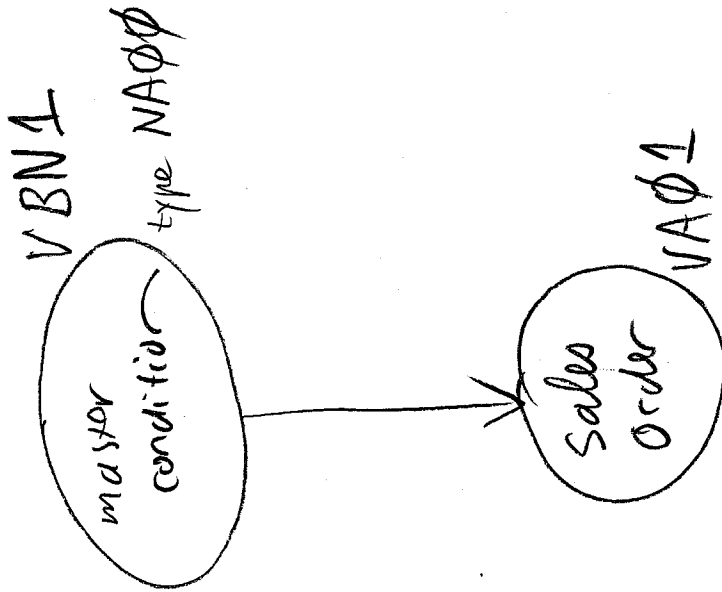
Promotion & Sales Deals



Free goods

(for every 100, 5 will be free)
(for every 100, get another 5 free)

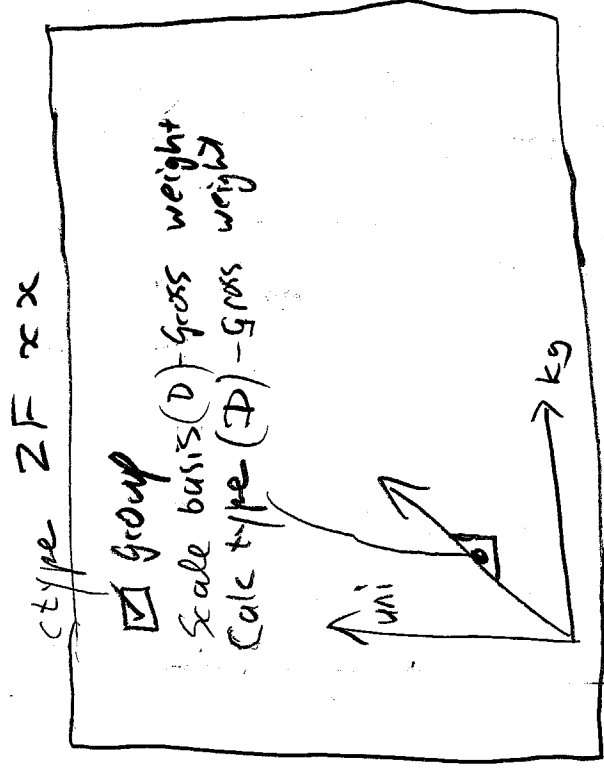
→ inclusive
OR
→ exclusive



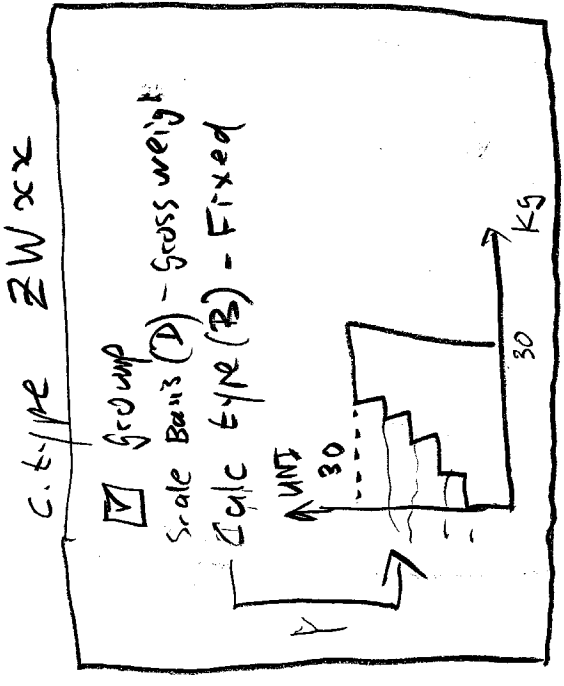
Item Cart Usage (for free item)
= FREE

LO → SD → Master data → Condition → Free Goods.

Group conditions, Exclusion groups & Condition update.



Excl. group Z2 xx



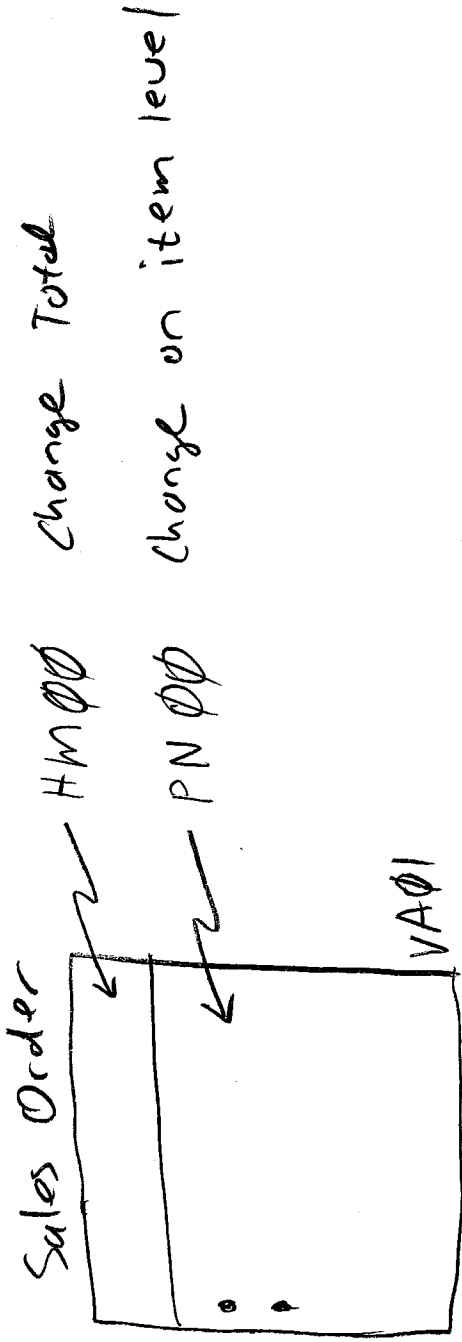
Excl. group Z1 xx

For my procedure, Exclusive (D) - use Z1xx else Z2xx

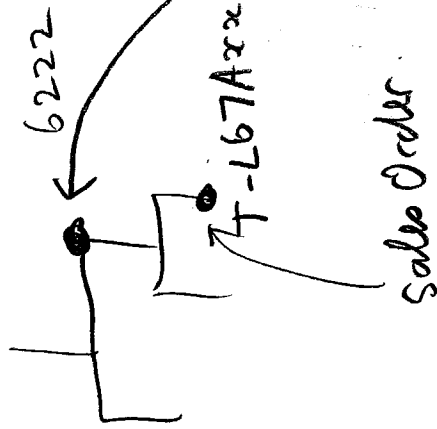
Note: Condition update in c.type ← ability to limit # of orders in condition records.

- Condition Update (see Value limit dropdown)

Special Condition Types

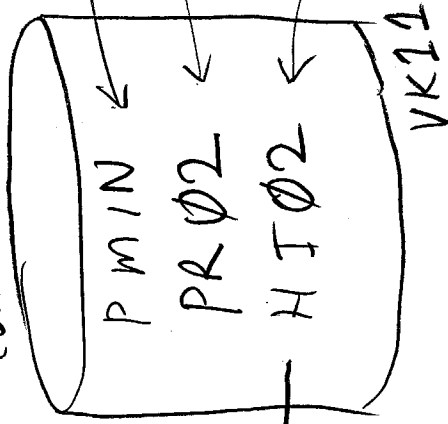


Customer Hierarchy



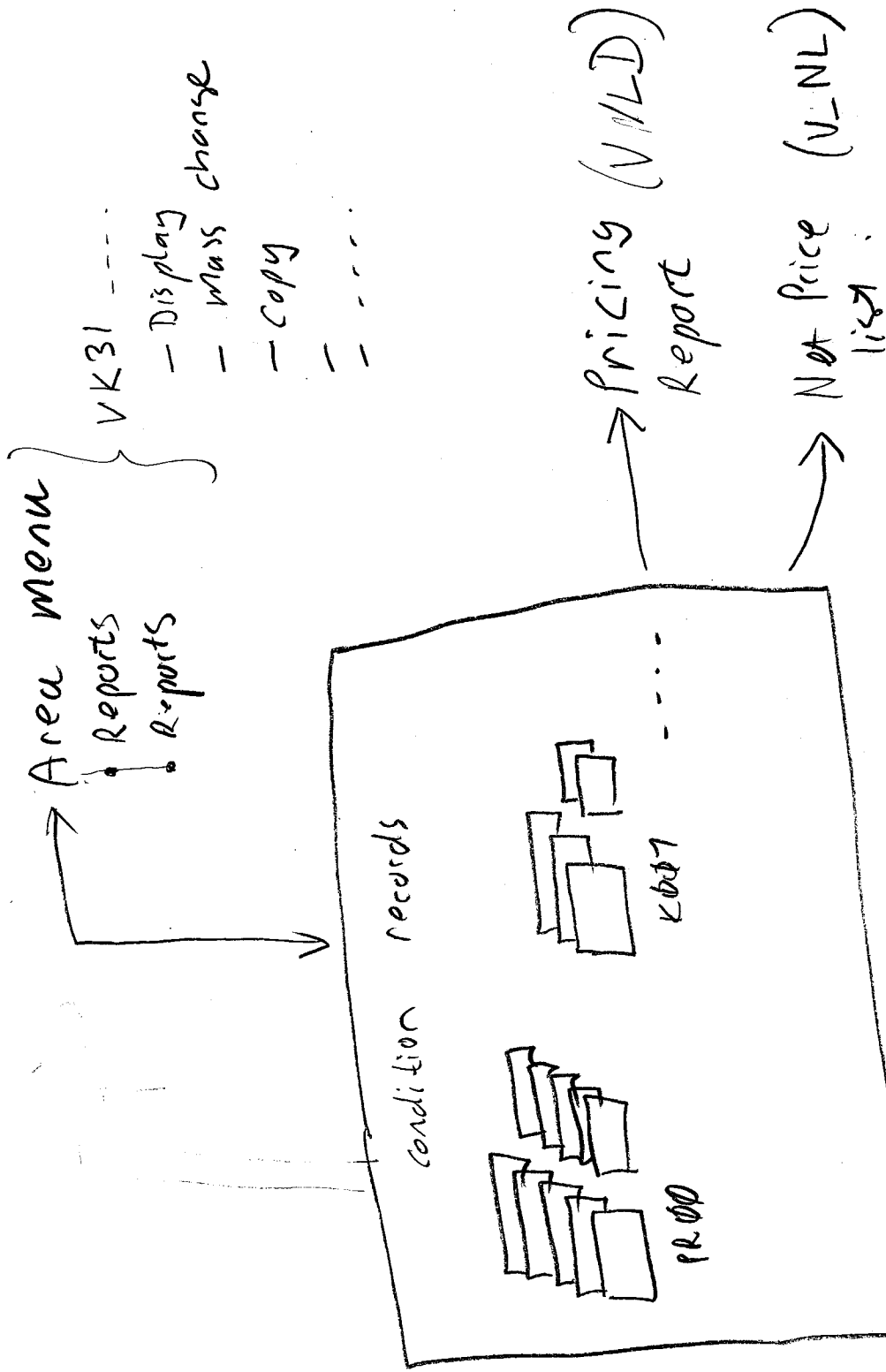
VDH1N

condition records



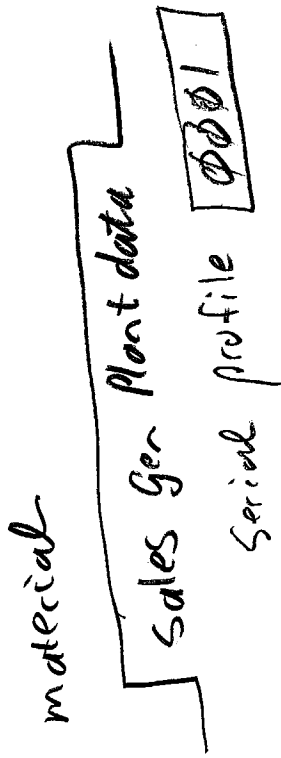
Min Price
Interval price (scal type "D")
(x) + () ---
Hierarchy Discount

Area menu & Pricing Report



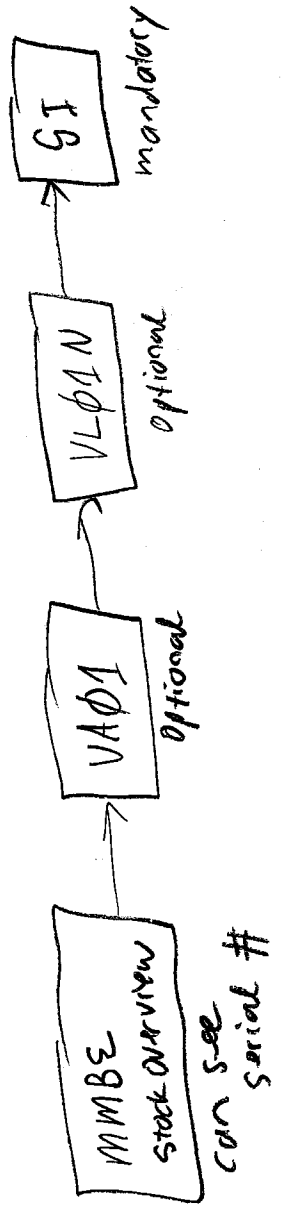
- Standard Area menu: COND-AU maintain, via SE43

Serial numbers



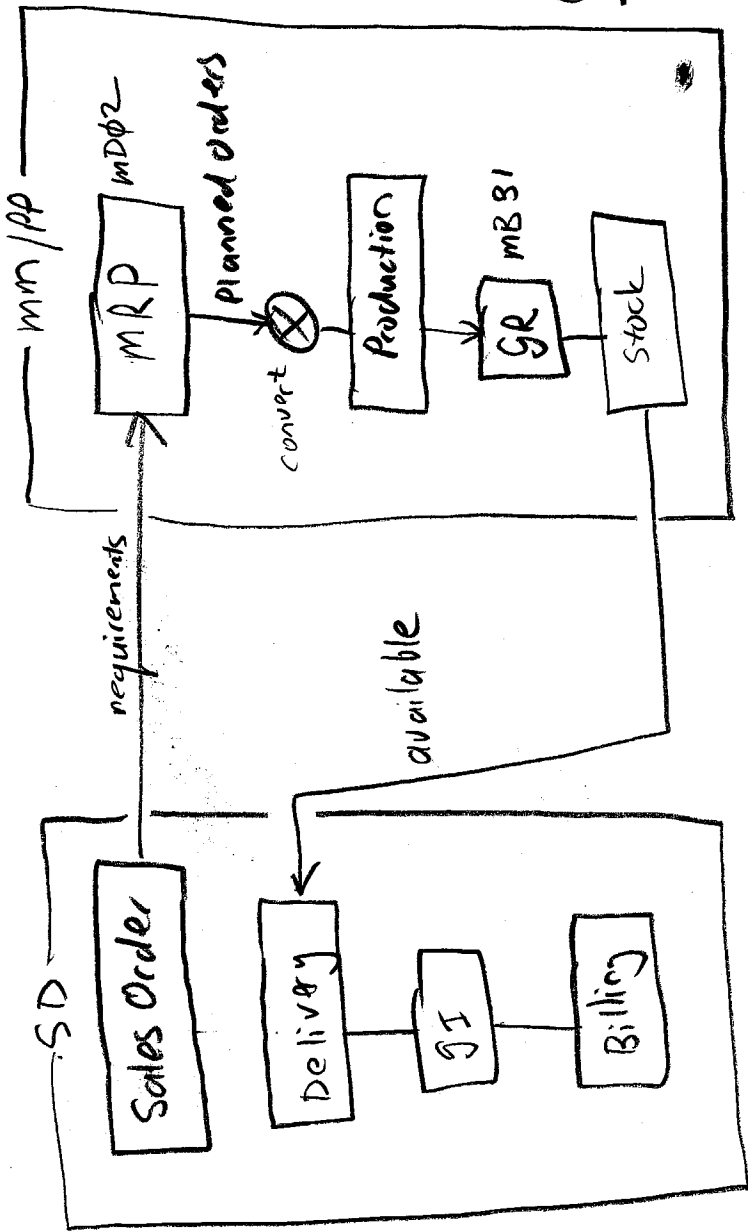
config: SD → Basic functions → Serial
(OIS2)

- set optional/mandatory per activity
eg. GR / GI / Sales Order, ...



Demo using:
material R-1002
Plant 1200
vender : 2004

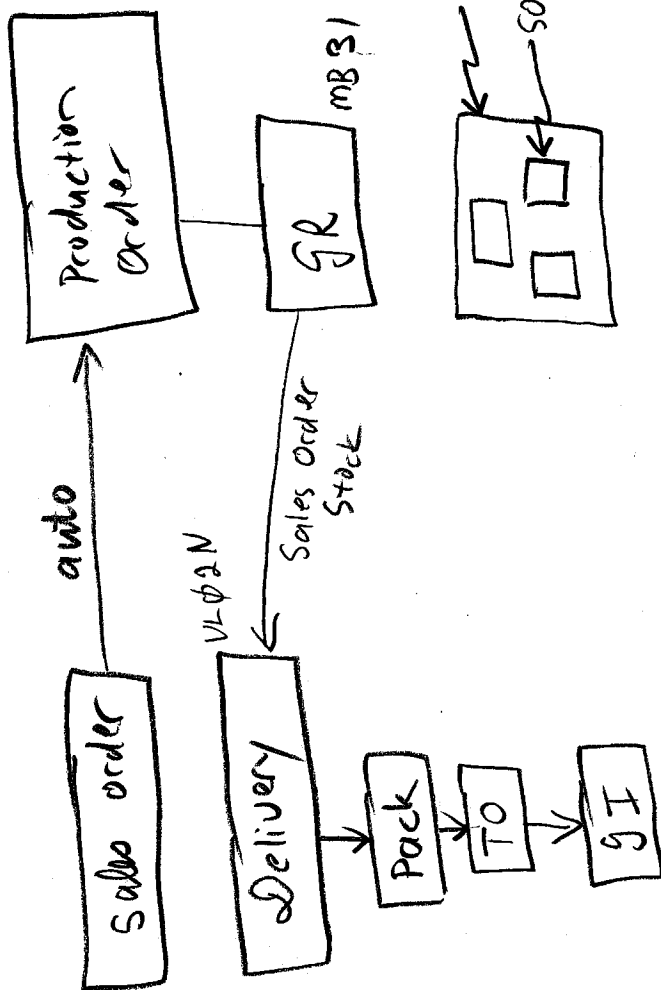
make to order (demo)



Demo with
T-FS/123
(not true MTO)
(no strategy grp)

6458

Assemble to order (exercise 25 & 26)



material

Sales 02
1 Lem. Cat. Grp → 50 items cut TAK
0001 (MTO)
MBS 3
strategy grp 82

pack material
50 items

