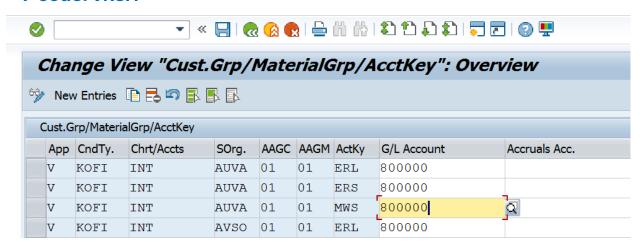


Key Determinations In SAP SD

This Document covers key determinations in SAP SD, explaining their components, T-codes, common errors, and causes.

 Revenue Account Determination = Application + Condition Type+ Chart of Accounts + Sales Organization + Customer Account Assignment Group (In customer master Billing Tab) + Material Account Assignment Group (In material master sales org 2 view) + Account Key

T-code: VKOA



Error: Revenue account posting fails in billing

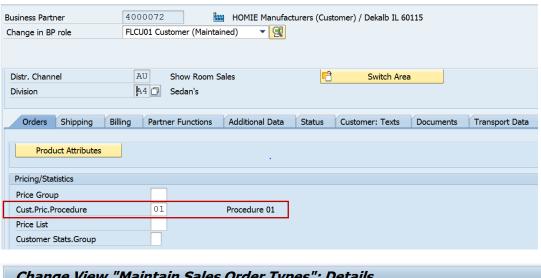
Cause:

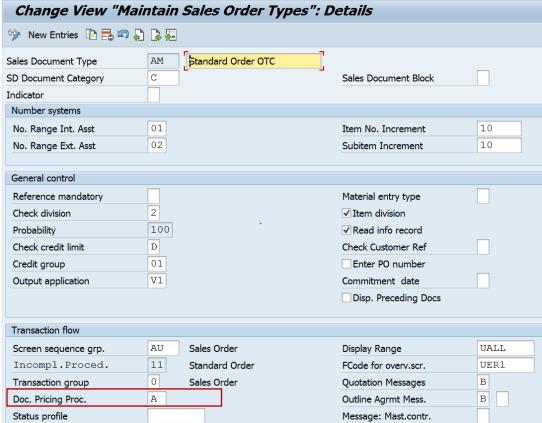
- Condition type not assigned to correct account key in V/08.
- Maintain missing GL Account for relevant key in VKOA.
- 2. **Pricing Determination =** Sales area+ Document pricing procedure in (VOV8)
 - + Customer pricing procedure in (Customer Master sales Tab) + Condition type

T-code: OVKK

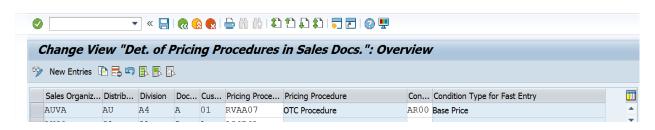












Error: Pricing procedure not determined in Sales Order

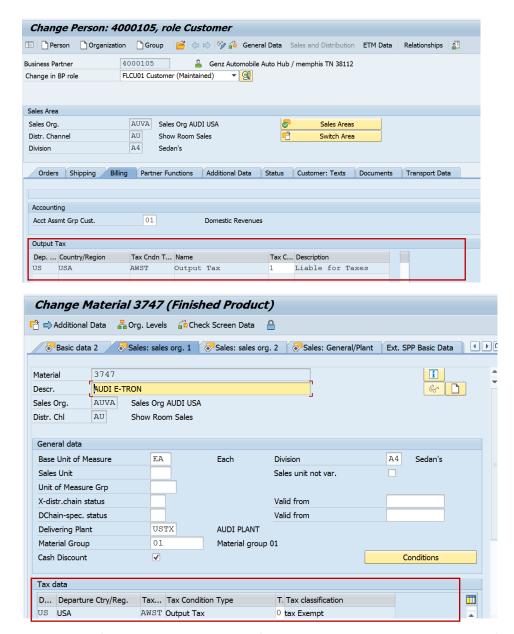
Cause:

- Missing or incorrect assignment in OVKK (Pricing Procedure Determination).
- Missing access sequence in pricing condition type (V/06).
- 3. **Tax Determination =** Destination country of the Ship to party + Departure country of the Shipping point+ Tax classification for customer master (Billing Tab in CM) + Tax Classification for Material Master (Material Master-Sales org 1 view)

T-code: OVK1







Error: Tax is not calculated, or incorrect tax amount appears in the invoice.

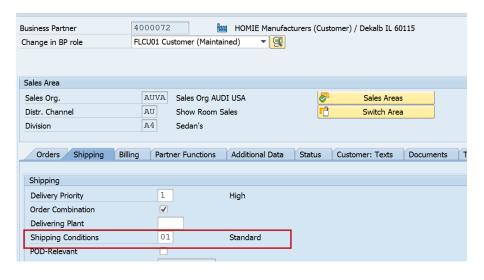
Cause:

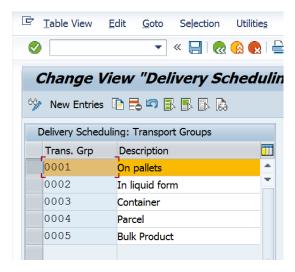
- Tax classification missing in Customer Master (XD01)
- Tax classification missing in Material Master (MM01)



4. Route Determination = Shipping conditions (in customer master shipping tab) + Transport Group (sales general/Plant view in MM) + Destination Zone of the Ship to party + Departure Zone of the Shipping point.

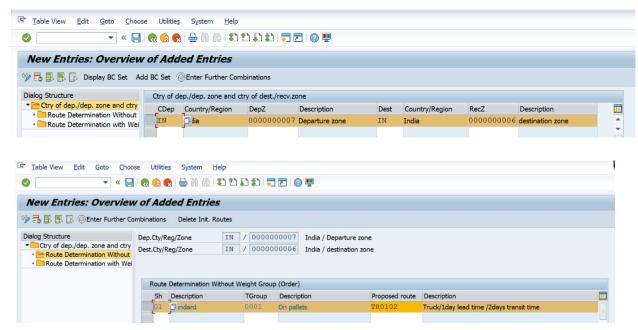
T-code: OVL4







Maintain Route Determination

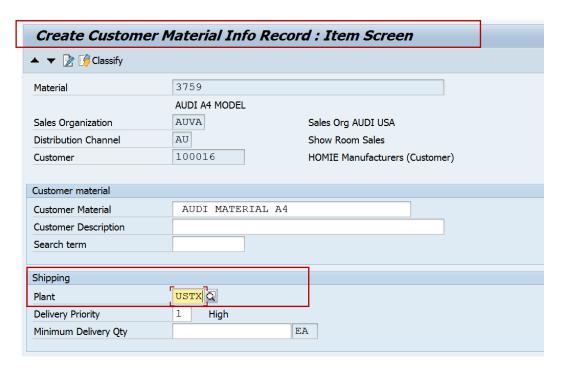


Error: Incorrect or missing route in the sales order.

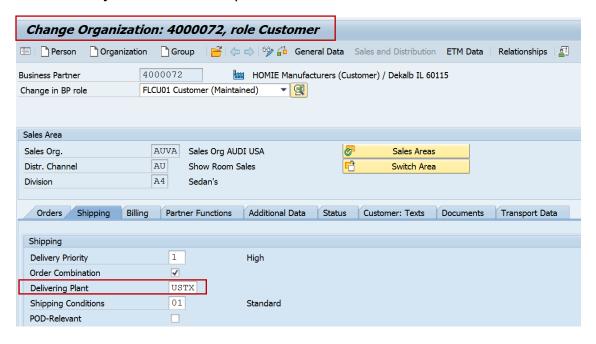
Cause:

- Transportation zone not maintained in Customer Master
- Route determination is not configured in OVL4.
- 5. **Plant Determination=** While System pulls Plant into the order, firstly it checks at CMIR level. Maintain Plant in T-code **VD51**





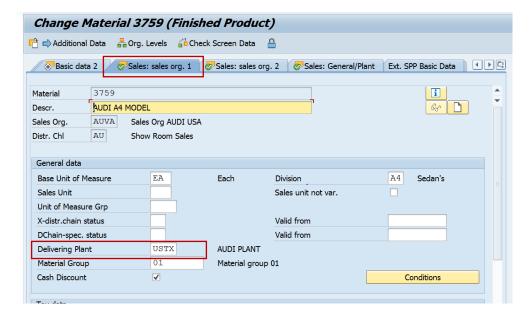
If the plant is maintained there, the plant will be determined into sales document, otherwise system checks for plant at customer Master level.



If the plant is maintained there, plant will be determined into sales document Automatically, otherwise system checks for plant at material master level.







If Plant is not available at material master level also, we must maintain plant manually

T-code: OVL2

Determines from which plant the goods will be delivered.

Error: The system fails to determine the plant in a sales order.

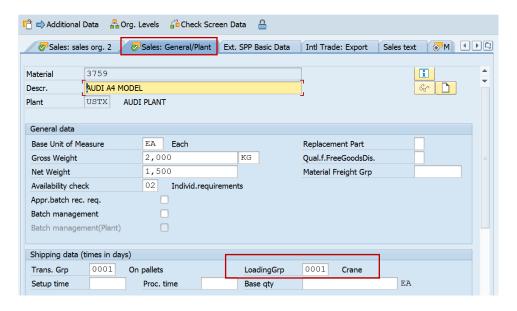
Cause:

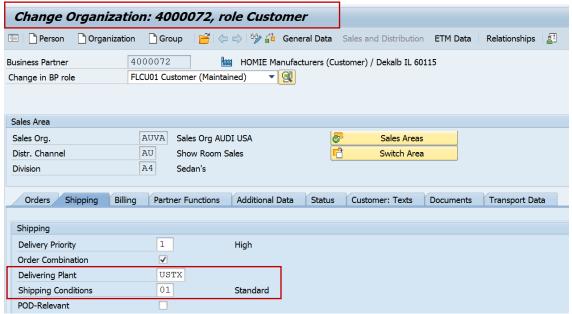
- Material Master (MM02 Sales Org 1 View) lacks plant assignment.
- Customer Material Info Record (VD51) missing plant assignment.
- Customer Master (XD03 Sales Area Data) does not have a default plant
- 6. **Shipping Point Determination=** Plant+ Shipping Conditions (in Customer master shipping Tab) +Loading Group (sales general/plant view in MM)

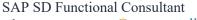
T-code: OVL2



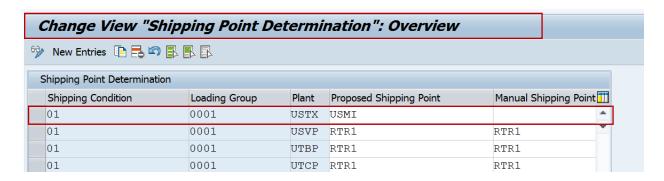












Error: Incorrect or missing shipping point in the delivery.

Cause:

- ❖ Shipping conditions are missing in Customer Master (XD03 Sales Area Data).
- ❖ Loading Group missing in Material Master (MM02 Sales Org 1 View).
- Plant-Shipping Point assignment not maintained in OVL2.
- Storage Location Determination= Storage Conditions (In MM Plant Data/ Storage 1 View) + Plant + Shipping Conditions (Shipping Tab in Customer Master)

T-code: OVL3

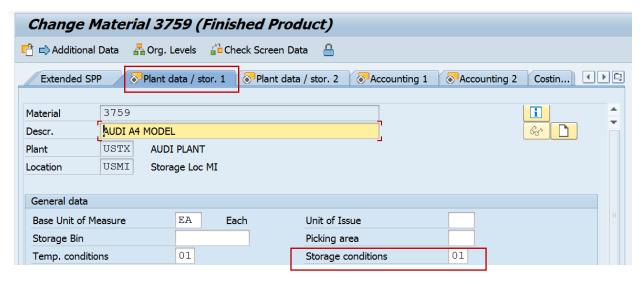
Storage location gets determined at delivery level and Maintain Determine storage location should be Checked in Delivery Item Category (OVLP)

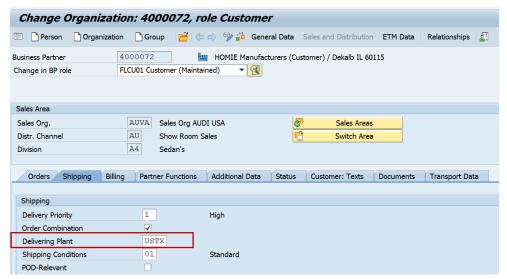
Storage location gets Determined based on 3 rules

 In OVLK, if Storage location Rule assigned to Delivery Type is MALA, System Considers



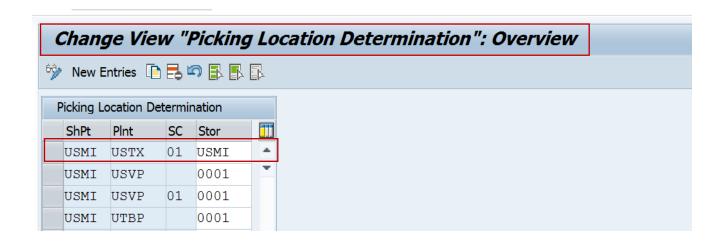
Storage Conditions + Shipping Point + Plant











- In OVLK, if Storage location Rule assigned to Delivery Type is RETA, System Considers
 - Storage Conditions + situation + Plant
- 3) In OVLK, if Storage location Rule assigned to Delivery Type is MARE, System Considers

Firstly, the System considers MALA to determine storage location, if it is not possible it will choose RETA as Back up Procedure

Determine the correct Storage Location for picking goods.

Error: Storage location is not automatically picked in the delivery.

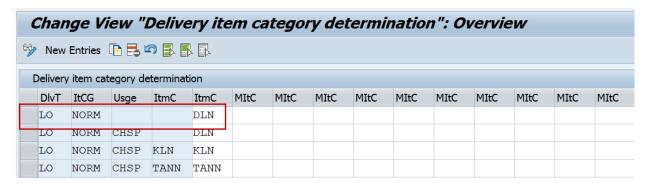
Cause:

- Storage location not maintained in Material Master
- Storage location determination missing in OVL3 (Plant & Shipping Point assignment)



8. **Delivery Item Category Determination=** Delivery Type + Item Category Group + Item Usage + Higher level Item Category

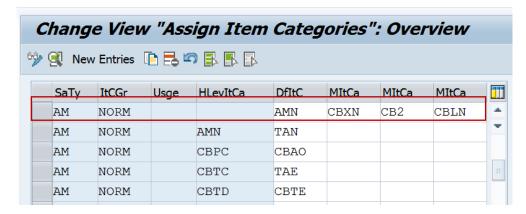
T-code: 0814



It is used while creating a Delivery Document without Sales order. By Default, there is Standard order type (DL), item category (DLN), schedule line (CP) and Delivery type (LO) available in the system by SAP

Item Category Determination= Sales Document Type +Item Category
 Group + Item Usage+ Higher Level Item Category

T-code: VOV4



System Considers Item usage and higher-level Item category in scenarios like

1) Cross-selling





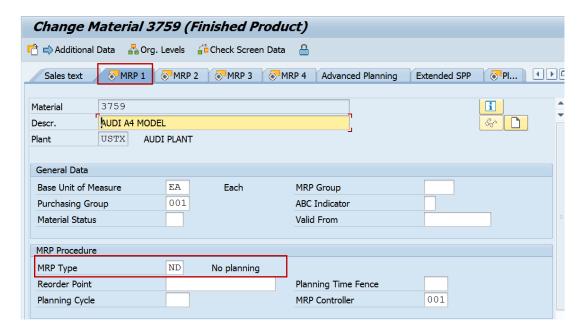
- 2) Material Determination
- 3) Free Goods Determination
- 4) BOM

The reason being that all the above scenarios have subline items determined into the sales Document and to determine Item category to the subline items system considers item usage and higher-level item category

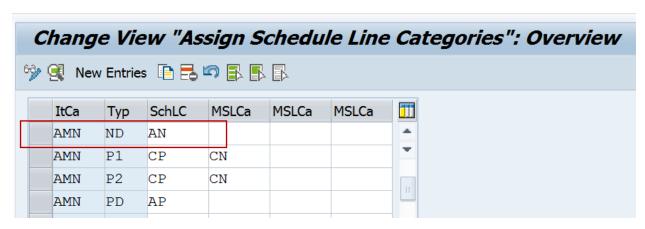
Error: missing item category in the sales order. Cause:

- Incorrect assignment in VOV4 (Item Category Determination).
- ❖ Item category group missing in Material Master (MM02 Sales Org 2 View).
- Scheduled Line Category Determination= Item category + MRP Type of the material

T-code: VOV5







Error: Schedule line category missing or incorrect confirmed quantity in sales order.

Cause:

- Schedule Line category not mapped in VOV5.
- ❖ MRP type missing in Material Master (MM02 MRP 1 View).
- Delivery Document Determination = it is achieved through
 Maintaining Delivery type in Corresponding Sales Document Type in VOV8

When a sales order is created, the system checks the assigned delivery type and automatically determines the relevant delivery document in VL01N

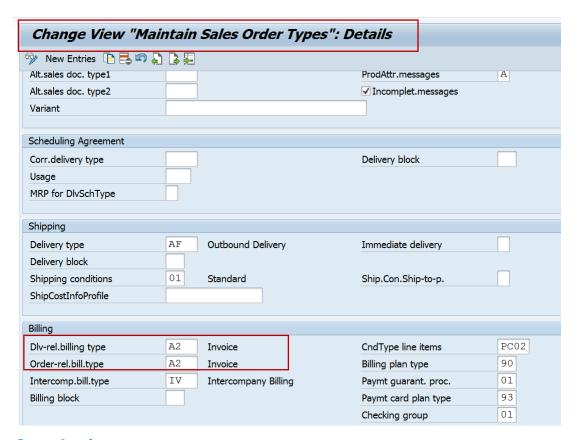


Change View "Maintain Sales Order Types": Details		
🦻 New Entries 📑 🖶	a 🔓 🖺	
Alt.sales doc. type1		ProdAttr.messages A
Alt.sales doc. type2		✓ Incomplet.messages
Variant		
Scheduling Agreement		
Corr.delivery type		Delivery block
Usage		
MRP for DlvSchType		
Shipping		
Delivery type	AF Outbound Delivery	Immediate delivery
Delivery block	Outboarid Delivery	Trifficulate delivery
Shipping conditions	01 Standard	Ship.Con.Ship-to-p.
ShipCostInfoProfile	Staridard	Shipteethiship to p.
ompeositinoi rome		
Billing		
Dlv-rel.billing type	A2 Invoice	CndType line items PC02
	112 ITVOICE	
Order-rel.bill.type	A2 Invoice	Billing plan type
		Billing plan type 90 Paymt guarant. proc. 01
Order-rel.bill.type	A2 Invoice	

12. **Billing Document Determination =** it is achieved through Maintaining Billing type in Corresponding Sales Document Type in VOV8

When a sales order is created, the system checks the assigned Billing type and automatically determines the relevant Billing document in VF01





Conclusion

Determinations in SAP SD automate business processes by ensuring accurate data flow across sales, delivery, and billing, reducing manual effort and errors. They enable seamless integration between sales, logistics, and finance, enhancing efficiency and compliance. Proper configuration ensures smooth transaction execution, improving accuracy and customer satisfaction.