

Direct LTL

Direct shipment, no consolidation. Each pickup arranged individually. Consignment created before warehouse processing. Carrier assigned via tendering or manual assignment. PDD created on carrier confirmation.

VARIANT ID /SAP/Direct_LTL	TOTAL STEPS 17	HU PACKING Mandatory	PDD TIMING Before WH execution
CONSIGNMENT Before WH processing	TENDERING Optional		

S/4HANA

- 1

Create Sales Order
MANUAL S/4HANA
- 2

Create Outbound Delivery
MANUAL S/4HANA
Triggers WarehouseShippingOrderRequest_Out SOAP message to LGM Integration Service.

LGM SYSTEM – AUTOMATIC

- 3

Logistical Demand created
AUTO
LGM Integration Service processes the inbound SOAP message.
- 4

Transportation Request created
AUTO
Transportation Planning Service creates the TR from the Logistical Demand.
- 5

Consignment created (before WH)
AUTO
isConsignmentCreatedBeforeWarehouseProcessing=true. Triggered at TR creation by Transportation Planning Service.
Warehouse execution cannot begin until carrier confirms.

TRANSPORTATION PLANNER – CARRIER ASSIGNMENT (STEPS 6 & 7 ARE ALTERNATIVES)

- 6

Initiate Freight Tendering
OPTIONAL Transportation Planner Manage Freight Tendering
User presses "Start Tendering" on the Consignment object page. Alternative to step 7 (manual carrier assignment). Either step 6 or 7 must be completed.
- OR -
- 7

Assign Carrier & Subcontract Consignment
MANUAL Transportation Planner Consignment app
Sets Carrier Confirmation Status -> "Confirmation Pending". Via tendering result or direct manual assignment. Alternative to step 6.
- 8

PDD created on carrier confirmation
AUTO
PDD created automatically when carrier confirmation event is received. This occurs before warehouse execution begins. Carrier Confirmation Status updates to "Confirmed".
- 9

Outbound Warehouse Request created
AUTO
Outbound Process Service creates the OWHR after carrier confirmation. Warehouse execution can now begin.

WAREHOUSE EXECUTION

- 10

Create Picking Warehouse Tasks
MANUAL Warehouse Supervisor / Operator Manage Outbound WH Activities
- 11

Confirm Picking Warehouse Tasks
MANUAL Warehouse Operative Manage Outbound WH Activities LGM Mobile App
- 12

Pack Goods into HUs (Packing Work Center)
MANUAL Warehouse Operative Packing Work Center
HU packing is mandatory (isHuMandatory=true).
- 12a

Print Shipping Labels
OPTIONAL Warehouse Operative Packing Work Center
- 13

Set Staging to Completed
MANUAL Warehouse Supervisor / Operator Manage Outbound WH Activities

DOCK & LOADING – PDD APP

- 14

Register Truck Arrival on PDD
MANUAL Warehouse Operator (dock) Manage Pickups and Deliveries
- 15

Load Items onto Truck via PDD
MANUAL Warehouse Operative Manage Pickups and Deliveries
- 16

Complete Loading on PDD
MANUAL Warehouse Operator Manage Pickups and Deliveries app
- 17

Post Goods Issue
MANUAL Warehouse Supervisor / Operator Manage Outbound WH Activities
LGM sends WarehouseShippingAdvice_In SOAP message back to S/4HANA. S/4HANA updates stock accordingly.

AUTO System-triggered MANUAL User action required OPTIONAL Not mandatory ROLE Responsible role
APP Fiori app used