

## Summary

### Symptom

This note contains generally asked questions with the answers relating to BOMs and delivery groups in the delivery.

### List of Questions

1. What is the connection between delivery groups and BOMs?
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  5. Why does a BOM explosion not work within the delivery?
  6. Can BOMs in connection with automatic batch determination be correlated in the delivery?
  7. What is the behavior of delivery groups when the partial delivery indicator C is used?
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1. Question: What is the connection between delivery groups and BOMs?

A delivery group is the bringing together of order items which are to be delivered to the customer at the same time. The system determines the chronologically last delivery date of an item within this group as the schedule line date for the entire delivery group. Thus, items can be grouped together to delivery groups in the sales order in order to synchronize their delivery.

In addition, a quantity correlation is carried out for groups of items if they are flagged as connected by the following conditions:

- o they belong to a common delivery group
- o they have one bill of material structure

2. Question: Why do transactions VL01 and VL04 or VL10\* behave differently during the delivery of incomplete delivery groups?

In the multiple processing for transaction VL04 or VL10\*, in the standard system no incomplete delivery groups are copied to the delivery. On the other hand, when you create a single delivery with transaction VL01N, delivery groups that are not complete are also created in the delivery. However the system then displays a message referring to this.

The basic idea here is that the delivery group rejected in multiple processing can possibly be created with transaction VL01N and thus delivered incompletely. The assumption is made that only a person responsible who has the relevant knowledge can carry out this activity and make the decision as to whether an incomplete delivery group may be delivered.

If, at the time of the delivery creation, at least one item of the delivery group is unavailable, this is not copied to the delivery in multiple processing or for a rush order. The prerequisite is that the unavailable item is rejected by the corresponding setting of the delivery item category in Customizing due to its 0 quantity.

With the manual creation of the delivery (transaction VL01N), the standard procedure offers the option of copying the available part of the delivery group to the delivery. Reference is made to the incomplete delivery group in a log.

Note 72688 describes a modification to prevent the delivery creation for incomplete delivery groups also for transaction VL01N.

Note 72481 describes a modification which allows the creation of an incomplete delivery group in the processing of the delivery list (transaction VL04/VL10).

3. Question: When does a delivery group count as being incomplete?

A delivery group is seen as incomplete when

- o for the current delivery at least one item of the delivery group cannot be created
- o this item was not fully dealt with by a preceding delivery.

Thus, when a subsequent delivery is created, a delivery group is not rejected if an item which was already delivered in full with a previous delivery is missing.

During the check of the delivery group in the delivery, only delivery-relevant items are taken into consideration, that is items which are contained in the delivery group in the order, but which are not delivery-relevant (for example, also for confirmed quantity = 0 and date/quantity fixed).

4. Question: How does the quantity correlation work in the delivery?

The quantity correlation is active if you specify a higher-level item in the order for an item and both items belong to the same delivery group. This can be entered manually or it happens automatically, for example, for BOMs if, in the respective order item category, you set in the Customizing that a delivery group should be created. If the delivery quantity of the main item is changed in the delivery, all the subitems are adjusted quantitatively. However, if you change the delivery quantity of a subitem, no correlation takes place within the delivery group.

5. Question: Why does a BOM explosion not work within the delivery?

In principle, BOMs are copied from the order to the delivery 1:1. A BOM explosion in the delivery is not programmed.

6. Question: Can BOMs in connection with automatic batch determination be correlated in the delivery?

In the standard, it is not possible to correlate BOM items with batch subitems. Because the batch determination takes place before the correlation of the delivery group when deliveries are created, the batch subitem is created first. Afterwards a quantity correlation is only carried out for the items that do not have any batch subitems, typically the main items.

7. Question: What is the behavior of delivery groups when the partial delivery indicator C is used?

During the print output "Partial delivery", a distinction must be made in connection with delivery groups between

- o a partial delivery for which the quantity in the delivery is less than the order quantity, however where the delivery contains all the delivery-relevant items of the delivery group and
- o a partial delivery where the delivery does not contain all the items of the delivery group.

The standard prevents only the latter in connection with delivery groups in multiple processing, among other things, with transactions VL04/VL10\*.

The combination of both, that is all the items of the delivery group with a complete quantity in a delivery, is only possible using the partial delivery indicator 'C' ('Only complete delivery allowed') for the items of the delivery group.

## **Other terms**

## **Reason and Prerequisites**

## **Solution**

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## **Header Data**

Release Status:	Released for Customer
Released on:	14.11.2002 17:04:12
Master Language:	German
Priority:	Recommendations/additional info



## SAP Note 546719 - FAQ: Delivery group and BOM in the delivery

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Category: FAQ  
Primary Component: LE-SHP-DL Delivery Processing  
Secondary Components: LE-SHP-DL-CP Collective Processing (VL10, VL04)

**The Note is release-independent**

### Related Notes

Number	Short Text
667161	DYNPRO_MSG_IN_HELP or VL 331 when you delete deliveries
84221	Delivery group check for partial. delivered items
72688	Also deleting incomplete delivery groups in VL01
72481	Modification: Allow incomplete delivery groups in VL04/VL10