

---

Number	992587
Version	0010
Processor	TG27394
Processing Status	In Processing
Implement. Status	Can be implemented
Language	EN
Short Text	Manually closing completed deliveries
Component	LE-SHP-GF-AR

---

### Long Text

#### Symptom

Your system contains old deliveries that have been completed from a business point of view but that are still technically characterized as open. This has consequences for data archiving:

You are unable to archive open deliveries because an overall processing status of "Completed" is a mandatory prerequisite for the archiving of deliveries (see SAP Note 138666).

The open deliveries also influence the ability to archive sales orders, since these can be archived only once the deliveries associated as subsequent documents have been completed. In particular, the archiving of a scheduling agreement with a large number of subsequent deliveries may be prevented by a single open delivery in the document flow.

#### Reason and Prerequisites

In the standard system, there is currently no option to complete an open delivery manually. It is always necessary to complete the missing steps, something which is often not possible in the case of old deliveries.

#### Solution

This SAP Note provides the program SHP\_DELIVERY\_COMPLETE and associated transaction VL\_COMPLETE. You can use this to complete deliveries manually if this is not possible or desirable using standard tools. The completion of the delivery using transaction VL\_COMPLETE is documented in detail in the change documents. You can then complete the deliveries that have been closed manually.

The manual completion of deliveries requires the authorization to change and archive deliveries at the affected shipping points.

However, you should bear the following points in mind when using the report:

Set the selection criteria in such a way that no documents used in production are changed. Manually changing the status results in documents disappearing from the shipping worklist and may cause delivery delays if the incorrect documents are inadvertently adjusted.

The manual completion of the delivery changes only the status of the

delivery and has no effect on any follow-on documents. The requirements update is also not affected by the status change to the delivery. If the report changes the goods issue status, you may have to correct the requirements for the relevant materials (see SAP Note 547277).

When you run the report, some unwanted follow-up actions (workflows, for example) may be triggered by the enforced status change to the delivery. Ensure that these actions have no detrimental effect.

If you run the report for deliveries in a decentralized Warehouse Management system, a confirmation is not sent to the central ERP system when the delivery is complete. The relevant documents and stock situation must also be manually corrected in the central system.

You cannot use this report to process correction deliveries for scheduling agreements.

**EXERCISE CAUTION** when you use transaction VL\_COMPLETE for deliveries that contain delivery items for HU storage locations. In particular, you should not use transaction VL\_COMPLETE if the delivery has already been processed in part (for example, if it has been packed or if warehouse activities have begun).

VL\_COMPLETE is a report that completes deliveries and thus renders them capable of being archived. This report DOES NOT include a consistency check. The user is responsible for ensuring that no data inconsistencies are created when using the report to complete such deliveries or during the subsequent archiving.

For such deliveries, you should ideally detach the HUs from the delivery before you use the report and delete or reverse the WM transport requests. If this is not possible, you must not use VL\_COMPLETE. In such cases, you must submit a ticket to SAP as manual adjustments will be required in your system before you can use the report.

The program and the associated transaction are delivered in the standard system in Release 7.00. You can implement them in earlier releases using this SAP Note (see the below implementation description) or by importing the relevant Support Packages.

How to use the report

#### Selection

The report selects only deliveries with an overall processing status of "Open" or "In Process". As a minimum, you must enter the residence time or limit the selection based on date on which the deliveries were created.

If you want completion of the delivery status to update the change date and the name of the last person who changed the entry, set the

"Update Change Date" indicator. Note that these changed deliveries cannot be archived immediately afterward if they are the basis for determining the residence time when the document was archived.

If you set the "Complete Transportation Planning" indicator, the system also selects deliveries with an open transportation planning status. During the subsequent completion, the transportation planning status is reset to "not relevant". If you do not set the indicator, the transportation planning status remains unchanged when the delivery is completed.

You use the "Background Processing" indicator to control whether to edit the selected deliveries online or whether they should be completed automatically. You should use this indicator with caution and only if you have a large number of deliveries to be processed. In test mode, completion of the deliveries is only simulated; in production mode, the changed deliveries are updated in the database.

#### Output

The program creates a list in dialog mode (indicator for background processing is not set) of open deliveries in accordance with the selection criteria. You can go to the display transaction of the delivery by double-clicking on an entry in the list. Using the "Complete Deliveries" button, you can switch the processing status of the selected deliveries to "Complete". If you want to restore the original status of the deliveries, choose "Reset Delivery Status". The system then redetermines the status of the deliveries using the report RVDELSTA (see SAP Note 506510). Choose "Error Log" to display any error messages that have occurred. The "Materials with Requirement Errors" button displays a list of materials for which you should check the requirement situation in the specified plants (because the goods issue for the relevant deliveries was not yet posted before the correction - see SAP Note 547277).

If you set the "Background Processing" indicator, the deliveries selected by the program are automatically set to complete (production mode) or their completion is simulated (test mode). The processed deliveries and the errors that have occurred are displayed in a list. If you schedule the program as a job in background processing mode, the system outputs two spool lists (the list of deliveries and the error list).

Note: If you create a variant for periodic background processing, you should select the residence time as a selection criterion. In this case, set the "Save Without Value" attribute in variant maintenance for the entry date so that you can always use this variant to redetermine the latest entry date when running the report (if you do not use this attribute, the system issues an error message if you want to use the variants on days after they were created).

When using background processing, the program also displays the list of materials for which incorrect requirements may exist (see above) after the status has been corrected.

#### Additional notes

You can use the report RVDELSTA to restore the original status of a manually completed delivery. (See SAP Note 506510.)

The design of transaction VL\_COMPLETE does not include the creation of BW extract data - there is no connection to the BW extraction process.

#### Implementation of the report

1. Create the structure SHP\_DELIVERY\_COMPLETE in the ABAP Dictionary (transaction SE11).

a) Assign the following attributes to the structure

Short Description: Status and Basic Information on Delivery

Package/development class: VLR

Enhancement category (if relevant): Can be enhanced (character-type or numeric)

Fields:

Component	Component Type
SELKZ	SELKZ
VBELN	VBELN_VL
ERDAT	ERDAT
VSTEL	VSTEL
LFART	LFART
KUNNR	KUNWE
KOSTK	KOSTK
KOQUK	KOQUK
LVSTK	LVSTK
WBSTK	WBSTK
PKSTK	PKSTK
PDSTK	PDSTK
FKSTK	FKSTK
FKIVK	FKIVK
GBSTK	GBSTK
TRSTA	TRSTA
COLOR	CHAR4

b) Activate the structure.

2. Create the program SHP\_DELIVERY\_COMPLETE in your system (transaction SE38).

a) Enter the following program attributes:

Title: Manual Completion of Open Deliveries

Type: Executable program

Status: SAP Standard Production Program

Application: Sales

b) Copy the source code for the report from the correction instructions into your system.

c) Activate the program.

3. Create the text elements for the program SHP\_DELIVERY\_COMPLETE.

a) Text symbols

Symbol	Text
001	Deliveries
002	Flow Control
004	Test Mode Without Database Changes
005	Adjust Delivery Status
006	Do you want to set the selected deliveries to complete?
007	Yes
008	No.
009	Do you want to reset the status of the selected deliveries?
010	Production Mode
011	Further Selection Criteria
012	Materials that might have incorrect requirements

b) Selection texts

---

NameTextDictionary

P\_AEDAT     Update Change Data

P\_TRSTA     Complete Transportation Plng

P\_BATCH     Background Processing

P\_PROD     Production Mode

P\_RESTM     ResidenceTime (days)    X

P\_TEST     Test Mode

S\_ERDAT     Created on    X

S\_LFART     Delivery Type    X

S\_VBELN     Delivery    X

S\_VKORG     Sales Organization    X

S\_KUNWE     Ship-to Party    X

S\_VSTEL     Shipping Point/Receiving Pt    X

4. Create message 074 in the message class VLA (transaction SE91).  
Short text: Enter residence time or creation date  
Set the message as self-explanatory.

5. Create message 075 in the message class VLA (transaction SE91).  
Short text: No authorization for delivery archiving in shipping point &1  
Set the message as self-explanatory.

6. Create message 068 in the message class VLA if this does not yet  
exist in your system.  
Short text: &1 deliveries successfully processed, &2 with errors  
Long text:  
Procedure  
In the case of processing that contains errors, check the error log.

7. Create the status STANDARD of the program SHP\_DELIVERY\_COMPLETE.

a) Start the Menu Painter (transaction SE41), and enter the program name  
SAPLSALV and the status name STANDARD.

b) Select the "Copy Status" function.

c) Confirm the system proposals for the descriptions of the parts of the  
status.

d) Switch to change mode for the new status.

e) Open the "Application Toolbar" screen area in the maintenance view  
for the status.

f) Remove the unnecessary pushbutton &ABC from the application toolbar  
to create space for the required new pushbuttons.

g) Enter the function code COMP in the first available field in the  
application toolbar and enter the following attributes:  
Static function text: Complete Deliveries  
Icon Name: ICON\_RELEASE  
Function Key: F9

h) Enter the function code UNDO in the next free field of the  
application toolbar and choose the following attributes  
Static function text: Reset Delivery Status  
Icon Name: ICON\_SYSTEM\_UNDO  
Function Key: Shift-F2

i) Enter the function code ELOG in the next free field of the  
application toolbar. Assign the following attributes:  
Static function text: Display Error Log

---

Icon Name: ICON\_ERROR\_PROTOCOL  
Function Key: Shift-F1

j) Finally, enter the function code REQD in the next free field of the application toolbar. Assign the following attributes:

Static function text: Materials with Requirement Errors  
Icon Name: ICON\_LIST  
Function Key: Shift-F4

a) In the Menu Painter, open the screen area for the menu bar. After the "Settings" submenu, enter the text "Environment" as the title for a new submenu. Open the menu "Environment" by double-clicking it and, from top to bottom, enter the function codes COMP, UNDO, ELOG, and REQD. Confirm your entries with ENTER so that the relevant function texts appear. Position the cursor on the entry ELOG and choose "Edit -> Insert -> Separator line" to subdivide the submenu.

b) Activate the status.

8. Create the transaction code VL\_COMPLETE (transaction SE93).

a) Create the transaction with the following attributes:

Short text: Completion of Deliveries  
Start object: Program and selection screen (report transaction)  
Program: SHP\_DELIVERY\_COMPLETE  
Selection screen: 1000

b) Classify the transaction as a "Professional User Transaction" and select all options in under "GUI Support".

c) Save the transaction and assign it to the package or development class VL.

9. Activate the "Change Document" indicator for the data element GBSTK (if you do not set this indicator, the system does not write a change document for the change to the overall processing status made by the report SHP\_DELIVERY\_COMPLETE).

a) Call the ABAP Dictionary (transaction SE11).

Enter the message class GBSTK and choose "Change".

c) Set the "Change Document" indicator on the "Definition" or "Further Characteristics" tab page.

d) Activate the data element GBSTK.

Other terms

RV\_LIKP, SD\_VBAK, SARA, archiving scheduling agreement, residence time, GBSTK, billing document, goods issue, packing status, VBFA

---

### Valid Releases

SAP Application

46C

470

500

---

600

---

**Links to Support Packages**

Software Component	Release	Package Name
SAP Application	500	SAPKH50016
	600	SAPKH60008

---