

# **Technical Solution Guide**

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Subsequent Function Requirement Routines are used to control the subsequent processing of sales and delivery documents within the Sales and Distribution Module. The purpose of these routines is to prevent specific functions from occurring if certain conditions exist. These routines do not prevent subsequent documents from being created and they should not be confused with Copy Control. For example, these routines will not prevent an invoice from being created from a delivery, but they can prevent the picking of an existing delivery.

#### **Subsequent Function Code**

The system uses Subsequent Function Codes to determine which routines to call. Table TVFO contains all subsequent functions defined in the system. The following are the current functions.

Function	Description
01	Requirements from sales document (availability)
02	Purchase requisition from sales document
03	Requirements from sales document (procurement)
04	Create delivery due index
05	Production order/plan order from sales document
06	Release/Block-Assembly Order From Sales Document
11	Picking from delivery
12	Packing from delivery
13	Goods issue from delivery

#### Table TVFO

Table TVFO contains the routine mapping for each subsequent function code. For each function there are two routines specified. The System Routine (SyFORM routine) is the standard R/3 routine and should not be modified. The User Routine (Routine number) is the user defined requirement.

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	400	11 12	FOFU	111 112	011 012		
	400	13	FOFU	113	013		
	400	14	FOFU	114	014		
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In the example above, function code 11 is the picking function code. Routine 011 is the standard system routine and routine 111 is the user routine.

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#### **Function Group V07A**

Function group V07A contains the processing function modules and all of the requirement routines. Each routine is contained in a separate include. Both the include file and routine name contain the routine number.

Function group  Function module SD_DELIVERY_SUBSEQUENT_ALLOWED Active	Function Builder: Display SD_DELIV	
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BEDINGUNG_PRUEFEN_002       **       ERROR         BEDINGUNG_PRUEFEN_003       **       WARNING         BEDINGUNG_PRUEFEN_014       MOVE BLIKP TO LIKP.         BEDINGUNG_PRUEFEN_013       MOVE BLIKP TO LIVP.         BEDINGUNG_PRUEFEN_013       MOVE BVUP TO VBUK.         BEDINGUNG_PRUEFEN_014       MOVE BVUP TO VBUK.         BEDINGUNG_PRUEFEN_013       MOVE BVUP TO VBUK.         BEDINGUNG_PRUEFEN_014       MOVE BVUP TO VBUK.         BEDINGUNG_PRUEFEN_014       MOVE BVUP TO VBUK.         BEDINGUNG_PRUEFEN_014       MOVE BVD.TO TVLP.         BEDINGUNG_PRUEFEN_102       *1f blips-vbBr.eq (908000'.       * Aufruf aus WA-Buchung         BEDINGUNG_PRUEFEN_103       0R ( BVPA-PARW E0 'WE' * Aufruf aus Kommiss.       * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_105       0R ( BVPA-PARW E0 'WE' * Aufruf aus Kommiss.       * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_106       0R ( BVPA-RAW E0 'WE' * Aufruf aus Kommiss.       * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_111       BEDINGUNG_PRUEFEN_112       * Systemprüfung       * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_113       * Systemprüfung       IF NOT TYFO-GRPNO_SY TO FORMAME-GRPNO.       * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_113       * Systemprüfung       IF NOT TYFO-GRPNO_SY TO FORMAME-GRPNO.       * Systemprüfung		*" VALUE (BCALLER) OPTIONAL
BEDINGUNG_PRUEFEN_003         BEDINGUNG_PRUEFEN_004         BEDINGUNG_PRUEFEN_005         BEDINGUNG_PRUEFEN_011         BEDINGUNG_PRUEFEN_012         BEDINGUNG_PRUEFEN_013         BEDINGUNG_PRUEFEN_014         BEDINGUNG_PRUEFEN_013         BEDINGUNG_PRUEFEN_101         BEDINGUNG_PRUEFEN_102         BEDINGUNG_PRUEFEN_103         BEDINGUNG_PRUEFEN_104         BEDINGUNG_PRUEFEN_105         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_107         BEDINGUNG_PRUEFEN_108         BEDINGUNG_PRUEFEN_111         BEDINGUNG_PRUEFEN_112         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_114 <td< td=""><td></td><td>EAGEFITONO</td></td<>		EAGEFITONO
BEDINGUNG_PRUEFEN_005MOVE BLIKP TO LIKP. MOVE BLIPS TO LIPS.BEDINGUNG_PRUEFEN_011MOVE BULIPS TO LIPS.BEDINGUNG_PRUEFEN_013MOVE BVUK TO VBUK. MOVE BVUK TO VBUK.BEDINGUNG_PRUEFEN_013MOVE BULLER TO CALLER.BEDINGUNG_PRUEFEN_104MOVE BULK TO TVLK. MOVE BULK TO TVLK.BEDINGUNG_PRUEFEN_103* 1f blips-vosnr eq '000000'. * Aufruf aus WA-BuchungBEDINGUNG_PRUEFEN_104* 1f blips-vosnr eq '000000'. * Aufruf aus WA-BuchungBEDINGUNG_PRUEFEN_105* 1f blips-vosnr eq '000000'. * Aufruf aus Kommiss.BEDINGUNG_PRUEFEN_106* 1f blips-vosnr eq '000000'. * Aufruf aus Kommiss.BEDINGUNG_PRUEFEN_105* 1f blips-vosnr eq '000000'. * Aufruf aus Kommiss.BEDINGUNG_PRUEFEN_105* NAD NOT ( BVPA-KUNNR IS INITIAL ) ).BEDINGUNG_PRUEFEN_106MOVE BVPA TO EXP_CTR_VBPA. ENDIF.BEDINGUNG_PRUEFEN_111ENDIF.BEDINGUNG_PRUEFEN_112* Systemprufung * SystemprufungBEDINGUNG_PRUEFEN_114* Systemprufung * SystemprufungBEDINGUNG_PRUEFEN_114* Systemprufung * SystemprufungBEDINGUNG_PRUEFEN_114* ON TVFO-GRPNO_SY TO FORNNAME-GRPNO. * SystemprufungBEDINGUNG_PRUEFEN_114* Userprufung * IF NOT TVFO-GRPNO_SY TO FORNNAME-GRPNO. * PERFORM (FORNNAME) IN PROGRAM (PRO6_ORDER). * UserprufungCHECK_RMBA_FOR_DELETION CHECK_RMBA_FOR_DELETION LUST_ANDE* USERPRUFUNG TO NO * USERPROM (FORNNAME) IN PROGRAM (PRO6_ORDER). * USERPROM (FORNNAME) IN PROGRAM (PRO6_ORDER). * ENDIF.LIST_INITENDELMICTION		
BEDINGUNG_PRUEFEN_101MOVE BLIPS TO LIPS. MOVE BVBUK TO VBUK.BEDINGUNG_PRUEFEN_101MOVE BVBUK TO VBUK. MOVE BVBUT TO VBUP.BEDINGUNG_PRUEFEN_103MOVE BTULP TO TVLK. MOVE BTULE TO CALLER.BEDINGUNG_PRUEFEN_101MOVE BULR TO CALLER.BEDINGUNG_PRUEFEN_102'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_103'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_104'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_105'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_106'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_107'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_108'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_112'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_113'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_114'11 blips-vbeln is initial.BEDINGUNG_PRUEFEN_115'11 blips.''BEDINGUNG_PRUEFEN_116'11 blips.''BEDINGUNG_PRUEFEN_117'11 blips.''BEDINGUNG_PRUEFEN_118'11 blips.''BEDINGUNG_PRUEFEN_114'11 blips.''BEDINGUNG_PRUEFEN_115'11 blips.''BEDINGUNG_PRUEFEN_116'11 blips.''BEDINGUNG_PRUEFEN_117'11 blips.''BEDINGU		*"MOVE BLIKP TO LIKP
BEDINGUNG_PRUEFEN_1012BEDINGUNG_PRUEFEN_1013BEDINGUNG_PRUEFEN_1014BEDINGUNG_PRUEFEN_1012BEDINGUNG_PRUEFEN_102BEDINGUNG_PRUEFEN_103BEDINGUNG_PRUEFEN_103BEDINGUNG_PRUEFEN_104BEDINGUNG_PRUEFEN_105BEDINGUNG_PRUEFEN_106BEDINGUNG_PRUEFEN_106BEDINGUNG_PRUEFEN_107BEDINGUNG_PRUEFEN_108BEDINGUNG_PRUEFEN_108BEDINGUNG_PRUEFEN_111BEDINGUNG_PRUEFEN_112BEDINGUNG_PRUEFEN_113BEDINGUNG_PRUEFEN_113BEDINGUNG_PRUEFEN_114BEDINGUNG_PRUEFEN_113BEDINGUNG_PRUEFEN_114 <t< td=""><td></td><td>MOVE BLIPS TO LIPS.</td></t<>		MOVE BLIPS TO LIPS.
BEDINGUNG_PRUEFEN_013BEDINGUNG_PRUEFEN_014BEDINGUNG_PRUEFEN_014BEDINGUNG_PRUEFEN_012BEDINGUNG_PRUEFEN_103BEDINGUNG_PRUEFEN_103BEDINGUNG_PRUEFEN_104BEDINGUNG_PRUEFEN_105BEDINGUNG_PRUEFEN_106BEDINGUNG_PRUEFEN_107BEDINGUNG_PRUEFEN_108BEDINGUNG_PRUEFEN_111BEDINGUNG_PRUEFEN_112BEDINGUNG_PRUEFEN_113BEDINGUNG_PRUEFEN_114BE		
BEDINGUNG_PRUEFEN_101       HOVE BCALLER TO CALLER.         BEDINGUNG_PRUEFEN_102       * 1f bilps-vbeln is initial.         BEDINGUNG_PRUEFEN_103       * 1f bilps-vbeln is initial.         BEDINGUNG_PRUEFEN_104       * 1f bilps-vbeln is initial.         BEDINGUNG_PRUEFEN_105       * 080000'         BEDINGUNG_PRUEFEN_106       0R ( BVBPA-PARVW EQ 'WE' * Aufruf aus WA-Buchung         BEDINGUNG_PRUEFEN_108       0R ( BVBPA-NARWW EQ 'WE' * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_118       NOVE BVBPA TO VBPA.         BEDINGUNG_PRUEFEN_112       MOVE BVBPA TO VBPA.         BEDINGUNG_PRUEFEN_113       PERFORM TVFO_READ USING FOFUN.         BEDINGUNG_PRUEFEN_114       * OT TVFO-GRPNO_SY IS INITIAL.         BEDINGUNG_PRUEFEN_114       * NOT TVFO-GRPNO_SY IS INITIAL.         BEDINGUNG_PRUEFEN_114       * OT TVFO-GRPNO_SY IS INITIAL.         BEDINGUNG_PRUEFEN_100       * Userprüfung         IF NOT TVFO-GRPNO_SY IS INITIAL.       MOVE TVFO-GRPNO_SY IS INITIAL.         MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.         MOYE TVFO-GRPNO TO FORMMAME-GRPNO.       PERFORM (FORMNAME) IN PROGRAM (PROG_ORDER).         LIST_AUSGABE       UST_INT         LIST_INIT       ENDEFUNCTION		MOVE BTVLP TO TVLP.
BEDINGUNG_PRUEFEN_102         BEDINGUNG_PRUEFEN_103         BEDINGUNG_PRUEFEN_104         BEDINGUNG_PRUEFEN_104         BEDINGUNG_PRUEFEN_105         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_107         BEDINGUNG_PRUEFEN_108         BEDINGUNG_PRUEFEN_111         BEDINGUNG_PRUEFEN_112         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_114 <td< td=""><td></td><td></td></td<>		
BEDINGUNG_PRUEFEN_104       IF BLIPS-POSKE E0'060000' * Aufruf aus WA-Buchung         BEDINGUNG_PRUEFEN_105       OR ( BVBA-PARVW E0 'WE' * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_106       OR ( BVBA-PARVW E0 'WE' * Aufruf aus Kommiss.         BEDINGUNG_PRUEFEN_108       MOVE BVBA TO VBPA.         BEDINGUNG_PRUEFEN_108       MOVE BVBA TO VBPA.         BEDINGUNG_PRUEFEN_112       MOVE BVBA TO VBPA.         BEDINGUNG_PRUEFEN_113       PERFORM TYFO_READ USING FOFUN.         BEDINGUNG_PRUEFEN_114       FORTUREFEN_900         BEDINGUNG_PRUEFEN_900       CHECK_PMMA_FOR_DELETION         CHECK_PRMA_FOR_DELETION       CHECK_RMBA_FOR_DELETION         CHECK_RMBA_FOR_DELETION       FNOT TYFO-GRPNO_SY IS INITIAL.         LIPS_AUSFUHR_KONTROLLE       USERPTOTUNG         LIST_AUSGABE       USET_ORME         LIST_INIT       ENDIF.         ENDIF.       ENDIF.         ENDIF.       ENDIF.         ENDIF.       USERPTOTUNG         INST_INIT       ENDIF.	BEDINGUNG_PRUEFEN_102	* if blips-vbeln is initial.
BEDINGUNG_PRUEFEN_105         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_106         BEDINGUNG_PRUEFEN_108         BEDINGUNG_PRUEFEN_108         BEDINGUNG_PRUEFEN_111         BEDINGUNG_PRUEFEN_112         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_113         BEDINGUNG_PRUEFEN_114         BEDINGUNG_PRUEFEN_106         CHECK_RMBA_FOR_DELETION         CHECK_RMBA_FOR_DELETION         CHECK_RMBA_FOR_DELETION         LIST_AUSGABE         LIST_AUSGABE         LIST_INIT         LIST_INIT         DIST_INT		
BEDINGUNG_PRUEFEN_106       AND NOT (SPRA-RUNRE IS INITIAL)).         BEDINGUNG_PRUEFEN_108       MOVE BVBPA TO VEPA.         BEDINGUNG_PRUEFEN_112       MOVE BVBPA TO EXP_CTR_VBPA.         BEDINGUNG_PRUEFEN_112       PERFORM TVF0_READ USING FOFUN.         BEDINGUNG_PRUEFEN_113       Systemprutung         BEDINGUNG_PRUEFEN_114       MOVE BVBPA.         BEDINGUNG_PRUEFEN_114       MOVE OF RND_SY IS INITIAL.         BEDINGUNG_PRUEFEN_114       MOVE VF0-GRPN0_SY TO FORNAME-GRPN0.         BEDINGUNG_PRUEFEN_100       PERFORM (FORNAME) IN PROGRAM (PRO6_ORDER).         CHECK_PMBA_FOR_DELETION       ENDIF.         CHECK_RMBA_FOR_DELETION       IF NOT TVF0-GRPN0 IS INITIAL.         LIPS_AUSFUHR_KONTROLLE       IF NOT TVF0-GRPN0 IS INITIAL.         LIST_AUSGABE       PERFORM (FORMAME) IN PROGRAM (PRO6_ORDER).         LIST_INIT       ENDIF.		OR ( BVBPA-PARVW EQ 'WE' "Aufruf aus Kommiss."
BEDINGUNG_PRUEFEN_108       MOVE BVBPA TO EXP_CTR_VBPA.         BEDINGUNG_PRUEFEN_111       ENDIF.         BEDINGUNG_PRUEFEN_112       PERFORM TVFO_READ USING FOFUN.         BEDINGUNG_PRUEFEN_113       Systemprüfung         BEDINGUNG_PRUEFEN_114       IF NOT TVFO-GRPNO_SY IS INITIAL.         BEDINGUNG_PRUEFEN_100       IF NOT TVFO-GRPNO_SY TO FORMNAME-GRPNO.         CHECK_PMA_FOR_DELETION       PERFORM (FORNAME) IN PROGRAM (PRO6_ORDER).         CHECK_RMBA_FOR_DELETION       USEPDITUNG         IJF_AUSFUHR_KONTROLLE       IF NOT TVFO-GRPNO IS INITIAL.         UIST_AUSGABE       MOVE TVFO-GRPNO TO FORMNAME GRPNO.         UIST_INIT       PERFORM (FORMAME) IN PROGRAM (PRO6_ORDER).         ENDIF.       ENDIF.		
BEDINGUNG_PRUEFEN_112       PERFORM TVF0_READ USING FOFUN.         BEDINGUNG_PRUEFEN_113       * Systemprufung         BEDINGUNG_PRUEFEN_114       IF NOT TVF0_GRPN0_SY IS INITIAL.         BEDINGUNG_PRUEFEN_100       * OFFORM (FORMNAME) IN PROGRAM (PROG_ORDER).         CHECK_PPMA_FOR_DELETION       ENDIF.         CHECK_RMBA_FOR_DELETION       * Userprufung         IF FOFUN_TEXT_READ       IF NOT TVF0-GRPN0 IS INITIAL.         LIPS_AUSFUHR_KONTROLLE       IST_AUSGABE         LIST_AUSGABE       PERFORM (FORMNAME) IN PROGRAM (PROG_ORDER).         LIST_INIT       ENDIF.		MOVE BVBPA TO EXP_CTR_VBPA.
BEDINGUNG_PRUEFEN_113       * Systemprüfung         BEDINGUNG_PRUEFEN_114       IF NOT TVF0-6RPN0_SY IS INITIAL.         BEDINGUNG_PRUEFEN_000       IF NOT TVF0-6RPN0_SY ID FORMNAME-6RPN0.         CHECK_PPMA_FOR_DELETION       PERFORM (FORMNAME) IN PROGRAM (PROG_ORDER).         CHECK_RMAA_FOR_DOLETION       ENDIF.         FOFUN_TEXT_READ       IF NOT TVF0-6RPN0 IS INITIAL.         LIPS_AUSFUHR_KONTROLLE       MOVE TVF0-6RPN0 IS INITIAL.         LIST_ENDE       ENDIF.         LIST_INIT       ENDELWCTION		
BEDINGONG_RRUEFEN_300       MOVE TVF0-GRPNO_SY TO FORMAME-GRPNO.         CHECK_PPMA_FOR_DELETION       FORDUN_TEXT_READ         CHECK_RMBA_FOR_DELETION       IN Serpoiding         FOFUN_TEXT_READ       ISSCHURK_KONTROLLE         LIST_AUSGABE       PERFORM (FORMAME) IN PROGRAM (PROG_ORDER).         LIST_INNT       ENDIF.		* Systemprüfung
CHECK_PPMA_FOR_DELETION CHECK_PRMA_FOR_DELETION CHECK_RMBA_FOR_DELETION FOFUN_TEXT_READ LIPS_AUSFUHR_KONTROLLE LIST_AUSGABE LIST_ENDE LIST_INIT LI		
CHECK_RMBA_FOR_DELETION FOFUN_TEXT_READ LIPS_AUSFUHR_KONTROLLE LIST_AUSGABE LIST_ENDE LIST_INIT LIST_INI		PERFORM (FORMNAME) IN PROGRAM (PROG_ORDER).
FOFUN_TEXT_READ LIPS_AUSFUHR_KONTROLLE LIST_AUSGABE LIST_ENDE LIST_INIT		
LIST_AUSGABE PERFORM (FORMNAME) IN PROGRAM (PROG_ORDER). LIST_ENDE ENDIF. LIST_INIT ENDELINGTION		IF NOT TVFO-GRPNO IS INITIAL.
LIST_ENDE ENDIF. LIST_INIT ENDELINGTION		
		ENDIF.
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SALES_HEADER_CHECK_STATUS		Li 1, Co 1 Ln 1 - Ln 49 of 49 lines

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#### **Processing Function Modules**

There are two function modules in this function group that process requirements. One function is for sales documents, and the other is for delivery documents. These function modules are called from various points in the Order and Delivery programs. The calling programs pass the appropriate function code to the function module. The logic reads table TVFO with the passed function code to determine which routines to call. Each function executes the non-modifiable system routine first, and then executes the user defined routine.

#### SD\_ORDER\_SUBSEQUENT\_ALLOWED

Passes all relevant sales document structures and the function code.

FUNCTION SD ORDER SUBSEQUENT ALLOWED **IMPORTING** TVAP BTVAP LIKE BTVEP LIKE TVEP LIKE VBAK **BVBAK BVBAP** LIKE VBAP **BVBEP** LIKE VBEP BVBEPVB LIKE **VBEPVB** LIKE BVBUK VBUK **BVBUP** LIKE **VBUP** FOFUN LIKE **TVFO-FOFUN** I SIMUL MODE DEFAULT SPACE I\_CHECK\_CYCLE\_FOFUN\_04 DEFAULT SPACE **EXPORTING** NO CREATE LIKE **TPTEST-STATUS** NO CHANGE LIKE **TPTEST-STATUS EXCEPTIONS** ERROR WARNING ERROR BUT DO NOT DELETE.

#### SD\_DELIVERY\_SUBSEQUENT\_ALLOWED

Passes all relevant delivery document structures and the function code.

FUNCTION SD\_DELIVERY\_SUBSEQUENT\_ALLOWED IMPORTING BLIKP LIKE LIKP LIKE **LIPSVB** BLIPS BTVLK LIKE TVLK BTVLP LIKE TVLP BVBUK LIKE VBUKVB **BVBUP** LIKE VBUPVB FOFUN LIKE **TVFO-FOFUN** LIKE **BVBPA** VBPA BCALLER **OPTIONAL** EXCEPTIONS ERROR WARNING.

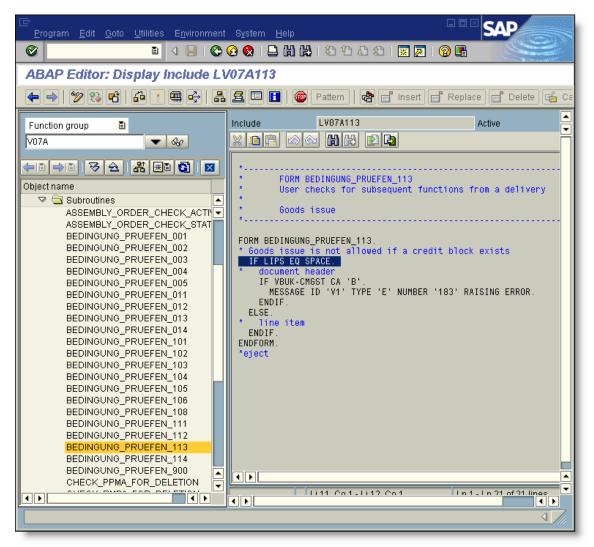
6/19/2005

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Technical Solution Guide

#### **Multiple Calls**

These functions are called multiple times from the calling program during the processing of a document. Each time the functions are called, the data contained in the structures may be different. In the case of delivery processing, the function is first called with only the header data populated. During subsequent calls, the header data is not passed, but item data is present.



The above example is the standard logic from the goods issue routine. The logic checks a field in VBUK only when LIPS is initial. The ELSE side of the IF statement is for checking item fields. This is because when LIPS is initial, the header data is being passed.

We suggest setting break points in the functions and routines to understand exactly how they work before implementing your own logic.

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#### **Custom Goods Issue Requirement Example**

The following example demonstrates how to implement a custom goods issue requirement routine. The basic process is the same for the other available functions.

#### **Business Requirement**

For a specific plant, inventory balances are maintained in a custom 'Z' table in addition to the standard R/3 inventory. This was done as part of a larger project to track the quantities of materials imported into Mexico for re-sale. Without elaborating on the design of the entire project, the purpose of this portion is to ensure that inventory exists in the 'Z' table during the goods issue process. If there is insufficient inventory in the table, the goods issue will not be posted.

#### Solution

To solve this problem, a custom goods issue requirement routine will be implemented. The logic in this routine will check the inventory balance in the 'Z' table and prevent the goods issue if the quantity in the table is less than the delivery quantity.

#### Step 1 Clone the standard routine

Using transaction VOFM, navigate to the subsequent function requirement routine for goods issue. Alternatively, you can go directly to the good issue requirement using transaction OVB7.

「 able <u>E</u> dit <u>C</u> opying requirements <u>D</u> ata transfer 」	<u>R</u> equirements <u>F</u> ormulas Syst	em <u>H</u> elp <b>SAP</b>
Maintain: Requirements & Formulas	Output co <u>n</u> trol A <u>c</u> count determination <u>M</u> aterial determination Listing/exclusion Free <u>g</u> oods <u>B</u> onus buy Reta <u>i</u> l pricing <u>R</u> isk management Cr <u>e</u> dit checks	
	Card authorization Subsequent functions	Reqs.availability Purch.req./assembly Delivery Due Index Picking Packing Ooods issue Distribution
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There is only one routine allowed for each function even though the screen implies that multiple routines can be used. On this screen, press the 'Req. maintenance' button at the bottom of the screen.

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Goo	ods issue :	for delivery					
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To clone the standard routine (113), type over the existing routine number and press enter. The system will prompt you for an object key. Obtain and specify the object key, then press ENTER.

Routine number	Description	Active	Application			
	System: BANF	<b>V</b>				
I	System: Requirements	<b>V</b>			-	
	System: DlvDueIndex	<b>V</b>				
i	System: Assembly	¥				
1	System: Picking	<b>V</b>				
2	System: Packing	¥				
3	System: Goods Issue	<b>V</b>				
4	System: Distribution	<b>V</b>				
01	Reqs.availability	<b>V</b>				
02	PReq	<b>V</b>				
03	Requirements	<b>V</b>				
04	Delivery Due Index	1				
05	Assembly	1				
06	Block construction	4				
08	Ship. due date index	<b>V</b>				
11	Picking	1				
12	Packing	¥				
113	Custom Goods Issue	<b>~</b>			▲	
14	Distribution	×			-	
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In this example, we typed routine 913 over 113. It is a common practice to simply replace the first digit of these routines with a '9'. Using this standard makes it obvious which routine was used for cloning.

#### Step 2 Activate the new routine

VOFM routines need to be activated before they can be used.

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#### Step 3 Assign the new routine

Only one routine can be active in the system. There is no other configuration required.

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Examining the TVFO table, we now see that subsequent function 13 points to routine number 913.

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	400 400	01 02	FOFU FOFU	101 102	001 002		
	400 400	03 04	FOFU FOFU	103 104	003 004		
	400 400	05 06	FOFU FOFU	105 106	005 000		
		11 12 13	FOFU FOFU FOFU	111 112 913	011 012 013		
		14	FOFU	114	014		

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#### Step 4 Code the routine

To access the source code, pull down the list of valid routines (F4), select the new routine and press the source code icon at the bottom of the dialog box.

Image: Selection criteria       Utilities       System       Help         Image: Selection criteria       Utilities       System       Help         Image: Selection criteria       Utilities       System       Help         Image: Selection criteria       Utilities       System       Help       Selection         Image: Selection criteria       Utilities       System       Help       Selection       Selection
Change View "Requirement for Goods Issue from a Delivery": Overview
Goods issue for delivery
Routin     Requirmnt     SyFORM ro     Su       913     Custom Goods Issue     13     System: Goods Issue     13
Routines 🗵
R Description
184 Delivery Due Index
105 Assembly
106 Block construction
198 Ship. due date index
111 Picking
112 Packing
113 Goods Issue
114 Distribution
913 Custom Goods Issue
Req.maintenance

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When a routine is cloned, the system automatically inserts comments at the top of the include denoting that it was copied from another routine. Since the include generated (RV07A913) is within the R/3 name range, the system protects the code as if we were installing a source code modification.

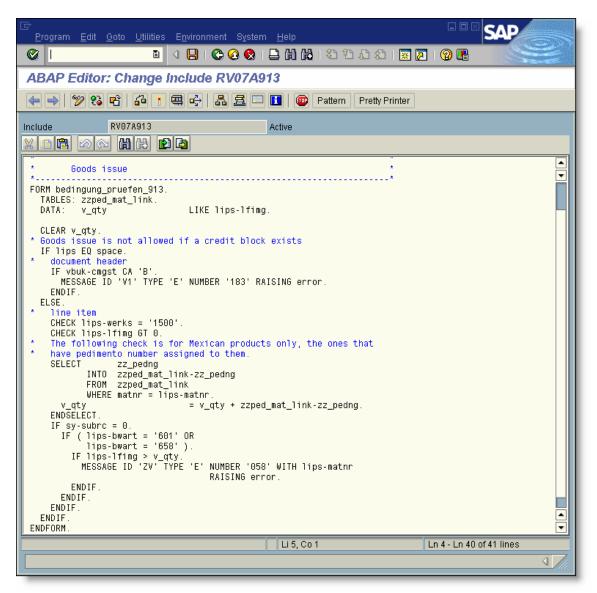
它 Program <u>E</u> dit <u>G</u> oto <u>U</u> tilities E <u>n</u> vironment S <u>v</u> stem <u>H</u> elp	
🖉 🔲 🖞 💾 🚱 🚱 😫 🗒 🖓 🔛 🖉	8 G 🧲
ABAP Editor: Modify Include RV07A913	
🔄 🔿 🦻 🚱 T 🚍 🚭 🛃 🔲 🚺 🎯 Pattern   🖑 🗗 Insert 📻	Replace 📑 Delete 🖷 C
Include RV07A913 Active	
*** Attention: copied routine! *** Attention: *** Character string 113 is replaced by 913 everywhere ! ***	
* FORM BEDINGUNG_PRUEFEN_913 * * User checks for subsequent functions from a delivery * * * * Goods issue *	
FORM BEDINGUNG_PRUEFEN_913. * Goods issue is not allowed if a credit block exists IF LIPS EQ SPACE. * document header IF VBUK-CMGST CA 'B'. MESSAGE ID 'V1' TYPE 'E' NUMBER '183' RAISING ERROR. ENDIF. ELSE. * line item ENDIF. ENDFORM.	
*eject	- Ln 27 of 27 lines
	1

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For custom routines, it is acceptable to turn off the modification assistant as long as the routine number begins with a '9'.

Program F	<u>adit G</u> oto <u>U</u> tilities	Environment	System Heln			
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ABAP EC	<u>P</u> attern	Ctrl+F6	07A913			ALCONY MACRONICS
	<u>C</u> lipboard	► Ctrl+F		ern   🕬 🗗 Insert	t 📑 Replace 📑 Del	lete 🕞 C
	Searc <u>h</u> /replace Find ne <u>x</u> t	Ctrl+G				
Include	Con <u>t</u> inue replace		Active			
	D <u>e</u> select		* * * * * * * * * * * * * * * * * * * *	:		
*** Attent	More functions	+	***	1		
*** Attent *** Charac	Modification operati		<u>I</u> nsert line area Replace line area	Ctrl+Shift+F8 Ctrl+Shift+F6		
	C <u>a</u> ncel	F12	Delete line area	Ctrl+Shift+F7		
*			— Undo modifi <u>c</u> ation	Shift+Ctrl		
	RM BEDINGUNG_PRUEF er checks for subs		Modification overview	Ctrl+Shift+F2		
* * Goo	ods issue		Switch off <u>a</u> ssistant			
*			<u>^</u> %	*		
* Goods iss	GUNG_PRUEFEN_913. sue is not allowed	l if a credi	t block exists			
IF LIPS E * documer	EQ SPACE. nt header					
	<-CMGST CA 'B'. AGE ID 'V1' TYPE '	E' NUMBER '	183' RAISING ERROR.			
ENDIF. ELSE.						
* line it ENDIF.	tem					
ENDFORM.						
*eject						
			Li 1, Co 1		Ln 1 - Ln 27 of 27 lines	
						4 7//

Our custom logic is added to the routine. The standard logic that was already present is kept.



#### Step 5 Test the new routine

We have selected a delivery and pressed the Post goods issue button.

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Change Outboun	d Delivery		
9 6 1 B 2 4	3 🔄   🏷 🖫 🍙   🛛 Post g	oodş issue	
Outbound delivery	80231444	3	

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A break point was set in the SD\_DELIVERY\_SUBSEQUENT\_ALLOWED function module.

Debugging Edit Goto Breakpoint Settings Development System Help
◎
ABAP Debugger
The second secon
Fields       Table       Breakpoints       Watchpoints       Calls       Overview       Settings         Main program       SAPLV07A       Fwed pt anthmetic       Image: Sape and the settings         Source code of       LV07AU03       32       48       Image: Sape and the settings         FUNCTION SD_DELIVERY_SUBSEQUENT_ALLOWED       AND NOT (BVBPA-KUNNR IS INITIAL)).       MOVE BVBPA TO VBPA.       Image: Sape and the settings         MOVE BVBPA TO EXP_CTR_VBPA.       ENDIF.       PERFORM TVFO_READ USING FOFUN.       Systemprüfung         IF NOT TVFO-GRPNO_SY IS INITIAL.       MOVE TVFO-GRPNO_SY TO FORMAME-GRPNO.       PERFORM (FORMAME) IN PROGRAM (PRO6_ORDER).         ENDIF.       Userprüfung       IF NOT TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.         MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.         MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IS INITIAL.         MOVE TVFO-GRPNO IS INITIAL.       MOVE TVFO-GRPNO IN PROGRAM (PRO6_ORDER).       ENDIF.         ENDIF.       ENDIF.       ENDIF.       ENDIF.
Field names 1 - 4
FOFUN         13         Image: Contract of the second seco
TVF0-GRPNO 913
SY-SUBRC 0 SY-TABIX 1 SY-DBCNT 1

We can see that the function was called with a function code of '13'. The logic read table TVFO and determined the system and user defined routine numbers. The logic will build the form names with these numbers and execute the system form first and then the user form.

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The program is now in our custom routine. The inventory in our 'Z' table is not enough to cover the goods issue. The logic will issue an error using the MESSAGE statement. This will be trapped and the message will be displayed on the error log.

ট Debugging <u>E</u> dit <u>G</u> oto B <u>r</u> eakpoint	<u>S</u> ettings De <u>v</u> elopme	nt S <u>y</u> stem <u>H</u> elp	[	
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ENDFORM.				
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v_qty	0.000		•	
SY-SUBRC 0 SY-	TABIX 3	SY-DBCNT 0		
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The error generated in the routine displays on the goods movement log. The goods issue did not post.

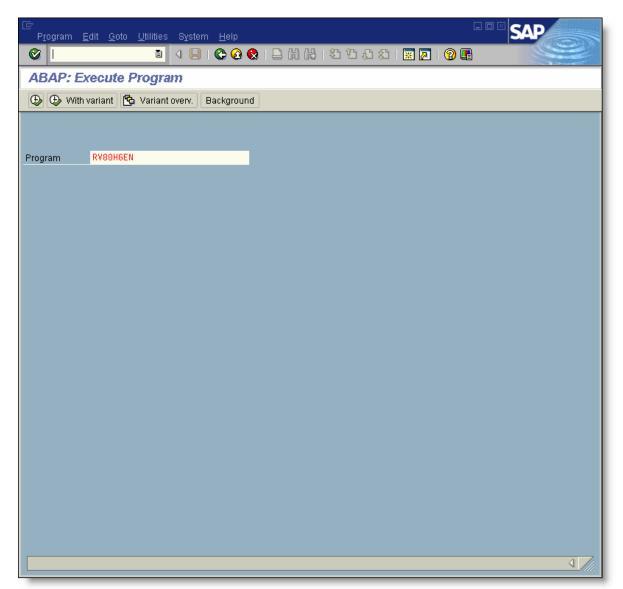
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🕄	Display Log					
Goods m	novement: Error lo	3				[
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	Quantity exceeds :	a Pedimento inventory for material 8001927				
						4

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#### Step 6 Running the VOFM regeneration

Whenever a VOFM routine is created, a special generation program (RV80HGEN) should be run in each system that the routine is moved to.



Note: This is a critical step that should not be overlooked. If this step is not executed, short dumps can result.

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The RV80HGEN completed.

C Log Edit Goto System Help	
Log Display	
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All routines have been successfully activated	ň
	7/.

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