

Change Status of an IDOC



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Change the Status of an IDOC in SAP

This article provides the step by step procedure to change the status of an IDOC in SAP using program RC1_IDOC_SET_STATUS. An IDOC can have various status depending on whether it is an inbound or an outbound IDOC. The partial listing of the various status an IDOC can have in SAP, are shown in the screenshot below:

🖻 Sta	tus of IDoc (2) 69 Entries found	
	Restrictions	
	<u>ν</u>	
Stat	Description	
50	IDoc added	
51	Application document not posted	
52	Application document not fully posted	
53	Application document posted	
54	Error during formal application check	
55	Formal application check OK	
56	Doc with errors added	
57	Test IDoc: Error during application check	
58	Doc copy from R/2 connection	
59	Not used	
60	Error during syntax check of IDoc (inbound)	
61	Processing despite syntax error (inbound)	
62	Doc passed to application	
63	Error passing IDoc to application	
64	Doc ready to be transferred to application	
65	Error in ALE service	
66	IDoc is waiting for predecessor IDoc (serialization)	
67	Not used	
68	Error - no further processing	
69	IDoc was edited	_
70	Original of an IDoc which was edited	
71	Doc reloaded from archive	
72	Not used, only R/2	

PARTIAL LISTING OF VARIOUS IDOC STATUS

BUSINESS SCENARIO / REQUIREMENT

Let us now take a look at an actual business scenario that would require us to change the status of an IDOC in SAP manually. The status of an IDOC changes automatically during the various stages of its processing. However, as mentioned above, at times there may be a requirement to manually change the status of the IDOC in SAP to a particular value. As an example, let us consider the following scenario where it would be advisable to change the status of an IDOC in SAP from 51(Application Document not Posted) to 68 (Error – No Further Processing)

• Assume that we received an inbound IDOC from a vendor which was going to post an invoice



i.e. a financial document in our SAP system. This invoice would then be picked up by the automatic payment program (T Code: F110) run for payment processing.

- The IDOC had some invalid data in one of its data segments due to which it went into error status 51.
- The same was informed to the vendor who had initially sent the IDOC to our SAP system.
- We could have manually corrected the data segment of the IDOC which had the error data and subsequently reprocessed the IDOC. The reprocessed IDOC would result in the posting of the vendor invoice in our SAP system.
- But let us assume in our case, the above approach of correcting the IDOC manually is not followed. Rather, the vendor agrees to send a fresh IDOC again with the correct data.

In the above scenario, the vendor has agreed to send a fresh IDOC. So, the original IDOC is no longer required to be corrected and processed. In such a case we would want to make sure that the original IDOC which went into error is moved into status 68 (Error – No Further Processing). This would ensure that the original IDOC is never manually corrected and processed to post the invoice. If the same were allowed, then duplicate postings can happen, i.e. we would have two invoices posted for the same item. During the automatic payment run for making vendor payments, both these invoices would be picked up for processing. This would result in double payments being made to the vendor once the IDOCs are processed. This objective to change the status of an IDOC in SAP manually can be achieved using program RC1_IDOC_SET_STATUS.

Now, let us take a look at the detailed step by step procedure to change the status of an IDOC in SAP using program RC1_IDOC_SET_STATUS.

STEP BY STEP PROCEDURE

STEP 1: Identify the IDOC number for which the status needs to be changed. Multiple IDOCs or a range of IDOCs can also be selected. In our example, we will change the status of a single IDOC.

STEP 2: Identify the current status of the IDOC. The current status of and IDOC can be viewed using T Code WE02. The current status of the IDOC shown in the screenshot below is 51 (Application Document Not Posted). This is an error status for inbound IDOCs.

IDOC IN ERROR STATUS 51



년 IDoc Edit Goto System H	elp			
0	4 🔲 😋 😧 😫 日 🖽	間間	S 🔊 🗶 🛛 🖓	@ 🖪
SAP				
Doc display			Technical short info	/
C IDoc 00000000093754			Direction	2 Inbox
Control Rec.		-	Current status	51 000
Data records	Total number: 000049		Basic type	INVOIC01
	Segment 000001		Extension	
	Segment 000002		Messaretyne	INVOIC
E1EDK02 009	Segment 000004		Partner No	10099
E1EDK02 001	Segment 000005		Partier No.	10035
E1EDK02 018	Segment 000006		Partn. Type	
E1EDK02 012	Segment 000007		Port	SAPID3
E1EDK03 026	Segment 000008			
E1EDK03 001	Segment 000009		Content of selected se	egment

STEP 3: Identify the new status to be applied to the IDOC. As mentioned in the business scenario earlier, in our case we will be updating the status of the above IDOC to 68.

STEP 4: Go to T Code SE38 in SAP. Enter the program RC1_IDOC_SET_STATUS as shown in the screenshot below. As mentioned before, the program RC1_IDOC_SET_STATUS can be used to change the status of one or more IDOCs to a desired valid value.

면 Program Edit Goto Utilities(M) Environment System Help						
S I I I C C S S I I II I I C C S S I I I I						
ABAP Editor: Initial Screen						
🖆 🚹 🕀 🚰 🌆 🗊 🗊 🚱 Debugging 🕒 With Variant 🔁 Variants						
Program RC1_IDUC_SEI_STATUS O Create						
Subobjects						
Source code						
O Variants						
O Text elements						
ିନ୍ତୁ Display 🖉 Change						



T CODE SE38 – EXECUTE PROGRAM RC1_IDOC_SET_STATUS

STEP 5: Enter the IDOC number for which the status needs to be changed on the selection screen of program RC1_IDOC_SET_STATUS. Enter the current status and the new status to be applied to the IDOC.

EHS: Report to C	Convert the	e IDoc Sta	atus	
				
Doc Number	0	000000000093	754 🗣 🗲	 Multiple Selection
Message Type				
Status	5	1		
New Status	6	8		
✓ Test				

SE38 - PROGRAM RC1_IDOC_SET_STATUS SELECTION SCREEN

STEP 6: Multiple IDOCs can be entered by using the multiple selection button shown below on the selection screen of program RC1_IDOC_SET_STATUS. The new status will be applied to all the IDOCs selected using multiple selection.

🔄 🗁 Multiple Selection for IDo	oc Number			×
Select Single Values	Select Ranges	Exclude Single Values	Exclude Ranges	
O Single value				
	🖪 🗣 🛱 🗙			

MULTIPLE INPUT SELECTION SCREEN FOR IDOC NUMBER

STEP 7: Make sure the "Test" checkbox is selected on the selection screen of program



RC1_IDOC_SET_STATUS. This will ensure that the program is first executed in test mode. This will not change the status of the IDOC, but will show any error that were to appear if the program was executed.

STEP 8: The output of the test run of program RC1_IDOC_SET_STATUS is shown below. It shows that the IDOC status is changed successfully. This implies that there are no errors and we can proceed with the production run to actually change the status of the IDOC.

⊑ List Edit Goto System	Help					
8	🛯 < 🖯 < 🚱 😫 🗎 🛗 🖓 🗳 🖓 🎝 🛠 🖼 🕅 🚱 🗳					
EHS: Report to Convert the IDoc Status						
EHS: Report to Convert th	ne IDoc Status					
1 IDocs were co	onverted.					
L						

TEST RUN SUCCESS MESSAGE

STEP 9: Now execute the program RC1_IDOC_SET_STATUS again with the same parameters as above but with the "Test" checkbox unselected. This is called the production run of the program RC1_IDOC_SET_STATUS since we are not running the program in test mode any more.

Program Edit Goto System Hel	0
	3 🗘 🚱 📮 🕅 🖧 23 12 43 🛒 🗾 🕲 🖪
EHS: Report to Convert t	he IDoc Status
Ð	
IDoc Number	93754
Message Type	
Status	51
New Status	68
Test	

PRODUCTION RUN ("TEST" CHECKBOX UNCHECKED)

STEP 10: The success message showing that the IDOC status has been changed is displayed for the production run.



년 List Edit Goto Syste	m Help						
0	💿 🔍 🖳 🚱 😫 💾 🕌 🎝 竹 丘 名 🛒 🖉 🕞						
EHS: Report to C	EHS: Report to Convert the IDoc Status						
EHS: Report to Convert	the IDoc Status						
1 IDocs are o	converted.						
L							

SUCCESS MESSAGE DISPLAYED

STEP 11: Go to T Code WE02 to confirm that the IDOC status has now been changed to the new value. It can be seen in the screenshot below that the new status value is 68.

I⊉ IDoc Edit Goto System	Help		
Ø	4 🛛 🗠 🚱 🔇	1日田昭1818	C CC 🙁 🗷 I 😨 🖪
B SAP			
IDoc display		Technical short info	
Control Roc	A	Direction	2 Inbox
I ⊂ Consor Rec. I ⊂ Consor Rec. I ⊂ Consor Rec.	Total number: 0000	Current status	68
E1EDK01	Segment 000001	Basic type	INVOIC01
📄 E1EDKA1 RS	Segment 000002	Extension	
E1EDKA1 RE	Segment 000003	Message type	INVOIC
E1EDK02 009	Segment 000004	Partner No.	10099
E1EDK02 001	Segment 000005	Partn.Type	LI
E1EDK02 018	Segment 000006	Port	SAPID3
E1EDK02 012	Segment 000007		Patrixing and a second s
E1EDK03 026	Segment 000008		

T CODE WE02 - IDOC STATUS UPDATED TO 68

SUMMARY OF LEARNINGS

The above article explained in detail the business scenario and the step by step procedure to manually change the status of an IDOC in SAP. The following points were covered:

- How to change the status of an IDOC manually in SAP.
- Use of program RC1_IDOC_SET_STATUS in SAP.
- How to modify the status of multiple IDOCs all at once.



• A real world business scenario which initiated a requirement to manually change the status of an IDOC in SAP.

How to Basis troubleshoot IDOCS error status 51 and status 68 Steps:

- 1. From Basis point of view, the technical problem that we have to look at is the transmission of the IDOC.
- 2. Firstly we execute BD87.
- 3. Enter IDOCS status 51 and press enter. You shall see below screen shot. As we can see, error "Status 51" are application or data related error.

Status Monitor for ALE Messages

🛐 🛅 🚰 😨 🎦 Select IDocs 🛛 🐼 Display IDocs 🛱 Trace IDocs 🕀 Process

IDocs	IDo
🗢 🌾 IDoc selection	
Changed on is in the range 17.09.2007 to 18.09.2007	
IDoc status is equal to 51	
V 🔽 UK Production	
🗢 😰 IDoc in inbound processing	
V 🖉 Application document not posted	51
v 🖞 INVOIC	
1 Item &1 of purchasing document &2 does not exist	<u> </u>
C B ORDERS	
Material &1 is not defined for sales org &2, distr.chan.&3, language	
/ ♥ 🖞 SHPCON	
🖉 Delivery & does not exist	
🚺 Item & does not exist	
Storage location & in IDOC does not match & in delivery	
🗢 🖶 STPPOD	
Delivery & does not exist	
🔰 🚺 Delivery not GI posted, not POD-relevant, or already POD confirmed	
V C WMMBXY	
Deficit of & & & &	
Enter &	

4. For status 68 error, we do the same thing. Use BD87 ' Enter 68 on IDOC status.



ID	ocs	
\bigtriangledown	V ID	oc selection
	E	Changed on is in the range 17.09.2007 to 18.09.2007
	E	IDoc status is equal to 68
\bigtriangledown	📰 UI	< Production
] IDoc in inbound processing
	∇	🛛 🔲 Error - no further processing
		♥ 👸 SHPCON
		🕼 (without error message)
		🗢 🛅 STPPOD
		🕼 (without error message)

5. As there is no error message. We double click 'Without error message' to see the IDOC details.

	IDoc number	Stat	Message Type	StatusText	Partner no.	Created on	Created at	BasicType
	97543	68	SHPCON	1:000	1000003	10.09.2007	16:20:46	DELVRY03
	98774	68	SHPCON	1:000	1000003	17.09.2007	10:20:50	DELVRY03
-	98775	68	SHPCON	1::000	1000003	17.09.2007	10:30:51	DELVRY03

6. Go to status record to see what has happened with the IDOC process. As seen in the picture, the error 68 was because the IDOC had status 51 which is caused by application/data error.

	·
Control Rec.	Distance in the second second
👂 🗂 Data records	Total number: 000007
🗢 🛄 Status records	
68	Error - no further processing
▽ 📄 51	Application document not posted
Delivery MU170907 does not exist	
▽ 🗋 62	IDoc passed to application
Direct call started	
▽ 📄 64	IDoc ready to be transferred to app
📄 📄 No filters , No conversion , No version chang	g
50	IDoc added

- 7. Look at transaction SM58 for any hanging or error tRFC (most of IDOC use tRFC/Asynchronous). If any check the error message.
- 8. If the partner type is LS which is logical system, you can check and test connection of RFC connection via SM59.
- 9. In this case, there is no error tRFC on SM59 which proves those error are not Basis issue.



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