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How to deal with 'Update was terminated' issue

There're could be hundreds of reasons that lead to update termination issues during transaction-related document creation/modification. In this article, I try to wrap up the basic approach and procedures on how to deal with the 'Update was terminated' issue.

1. Overview of 'Update was terminated'

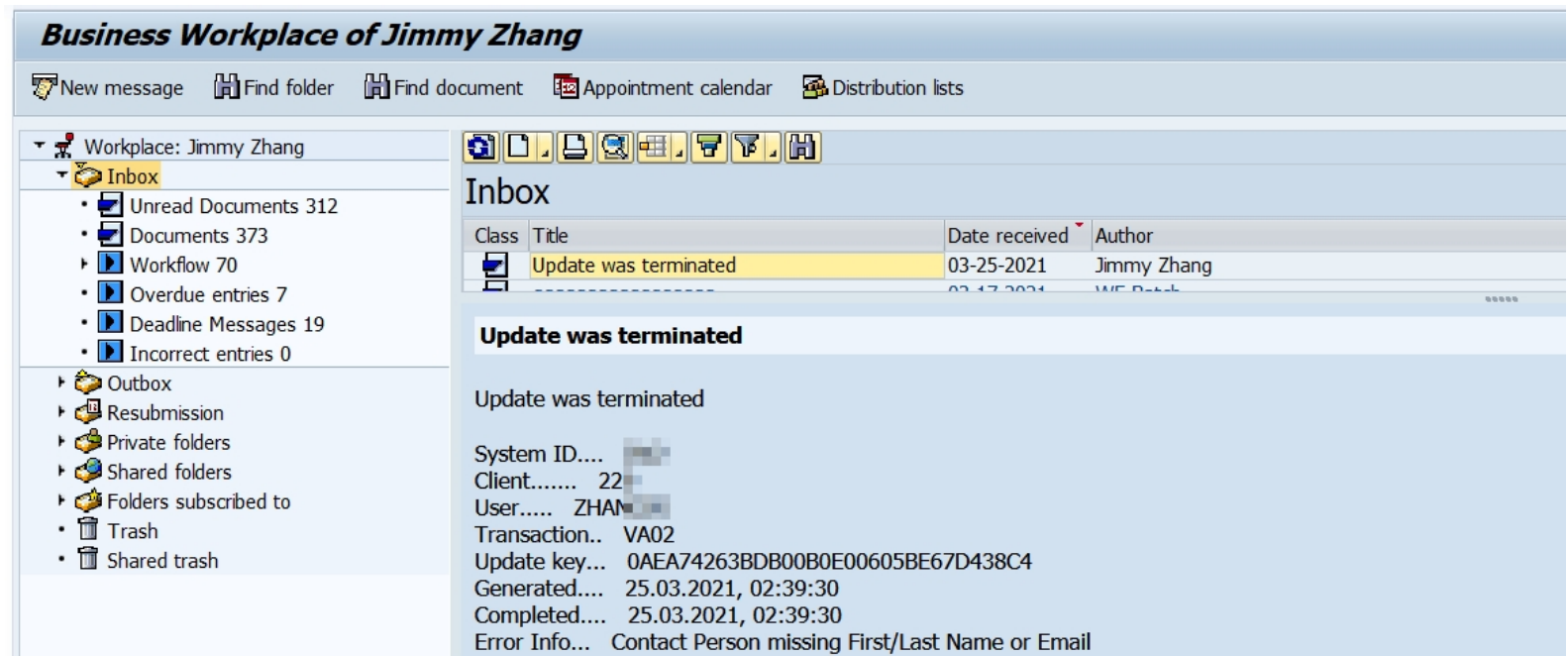Once update termination happens, the system may popup the error window at SAP GUI.

And it'll send an email to the business workplace Inbox of the operator which can be check through TCODE SBWP.

The contents of the email list the key attributes like termination timestamp and update key. The error information at the bottom could point out the root directly especially along with a well-designed message handler at the standard program or customized enhancement. But most of the time, the error could be very blurry like 'Error in spool C call: 8' because of the nesting errors among huge numbers of function modules and customized enhancement.

Please check here for more info from SAP.

2. SM13-Administrate Update Records

Go to TCODE SM13 and execute with the user ID and termination timestamp:

Update Requests: Initial Screen

Client	*
User	E▓▓▓▓▓▓

Status

- ○ Canceled
- ○ To be updated
- ○ V1 executed
- ○ V2 Executed
- ⦿ All   ☐ Global View

Selection

From date	05-17-2021	To date	
From time	00:36:01	To time	00:36:59

Maximum no. records	99,999
Update server	

Update System   Administration

Update is active

Double click the update record to check the details. Notice the update key is 60A1F9920E047014E1000000A558A14B which will be used later.

Here this example is VF04 invoice creation failed when calling FM: RV_MESSAGE_UPDATE. And click the 'Display Update Data' button to verify the value of accordingly table and structure.

It's very helpful to compare with value for normal documents if an error caused by any value been wrongly modified by some enhancements. For this example, at the NAST table, you can even get the temporary document number that should be generated.

Structure Editor: Display MSG_XNAST from Entry

🖧 I◀ ◀ ▶ ▶I 📊 Column   📊 Entry   Metadata

3 Entries

MAN	KA	OBJKY	KSCH	SP	PARNR	PA
400	V3	7421206999	ZAIR	E	0000006013	RE
400	V3	7421206999	ZIPR	E	0000006013	RE
400	V3	7421206999	ZRDP	E	0000006013	RE

When an invoice been generated temporarily but hasn't been saved yet, the system carries on output processing. Then update termination stops the whole invoice processing, meanwhile temporary invoice number been occupied but not been saved and can't be used by the following invoice as well. This can explain why those document numbers are missing at tables like VBRK.

Data Browser: Table VBRK Select Entries

🔍 🔍 🔄 Check Table...   📊 📊 🖨 🔽 🔽 Σ 🔘 📑 📥 📤 🗑 🔲 🔳

VBELN	WAERK	REGIO	KUNAG	AEDAT	CMWAE	VBUND	XBLNR
7421206998	USD 🔲	CT	0000006011			US10	0004363059
7421207000	EUR	MI	0000006016			IT10	0004393673
7421207001	EUR	MI	0000006016			IT10	0004394273

Temporary document no. 7421206999 is not been saved which lead to number broken

Debugging button is available at the update module screen, but don't need to rush jumping into debug pool. Sometimes that's like looking for a needle in a haystack without enough inputs. And better check below TCODE SM21 first.

3. SM21- system log Display

Run SM21 with the user ID and time range like 30 minutes ahead of termination timestamp:

Syslog messages

Syslog of instance snpecap1_PR1_00, snpecap2_PR1_00, …

Date	TIME	Type	Process No	Cl.	Priority	Message ID	Message Text
05-17-2021	00:33:35	UP1	072	400	🔴	F3V	Error 30 for write/read access to a file.
05-17-2021	00:33:35	UP1	072	400	🔴	F3V	Error 30 for write/read access to a file.
05-17-2021	00:33:35	UP1	072	400	🟩	F71	Error in TemSe Management
05-17-2021	00:33:35	UP1	072	400	🔴	D01	Transaction Canceled SPOC 003 ( )
05-17-2021	00:33:35	UP1	072	400	🔴	R65	Update terminated
05-17-2021	00:33:35	UP1	072	400	⚪	R66	> Update key: 60A1F9920E047014E1000000A558A14B
05-17-2021	00:33:35	UP1	072	400	⚪	R67	> Update module: RV_MESSAGE_UPDATE

Yes, there's the update key 60A1F9920E047014E1000000A558A14B and error ahead of the update termination which matches the message ID at SM13's update module logs.

Please check here for more from SAP.

Update modules

User:
Date:
Update key: 60A1F9920E047014E1000000A558A14B

Number	Module name (function)	Execut
1	POST_DOCUMENT	V1
2	G_FI_POSTING	V1
3	ISJP_INVSUMIT_SAVE	V1
4	ISJP_INVSUM_SAVE	V1
5	BREAKDOWN_RELATION_INSERT	V1
6	K_DOCUMENT_UPDATE	V1
7	RKE_WRITE_ACT_LINE_ITEM_PEOC	V1
8	G_PCA_0_POSTING	V1
9	EXPIMP_POSTING	V1
10	RV_INVOICE_POST	V1 (n
11	RV_MESSAGE_UPDATE	V1
12	J_1A_WS_AEI_UPDATE_TASK	V1
13	MCV_STATISTICS_UPD_V1_INVOICE	V1

PR1(1)/400 Status of Update Module

Function Module   RV_MESSAGE_UPDATE

Status   — Update was terminated —

Report

Row

Error details   Class: SPOC   Number: 003

Error in spool C call: 8

Syslog log details view

Message data

Date / Time	021	00:33:35
Workprocess Type	umber	072
Client		
User	N	
Transaction Code		

Message details

Message ID	D01
Category	SAP Basis System
Message Text	Transaction Canceled SPOC 003 ( )

Documentation

The transaction has been terminated. This may be caused by a termination message from the application (MESSAGE Axxx) or by an error detected by the SAP System due to which it makes no sense to proceed with the transaction. The actual reason for the termination is indicated by the T100 message and the parameters.

Here we can see the root cause of this update termination without debugging!

Syslog log details view

Message data

Date / Time	2021	00:33:35
Workprocess Type	Number	072
Client		
User	JN	
Transaction Code		

Session details

Process ID	19154
Session	1
Program	RSM13000
Package	STMS
Terminal	

Message details

Message ID	F3V
Category	Spool / print
Message Text	Error 30 for write/read access to a file. File = ...
Error no.	30 EROFS
Documentation	

When it accessed a file, the TemSe software received an unexpected error message from the operating system (or file system). The message contains the current file name and the value of the "errno" variables of the C system.

Technical details

SysLog type	k Error (Module, Location)
variable data	30/usr... 378874
Transaction ID	60A1F9920E047014E1000000A558A14B
Overall Context ID	001CC4C5EBDC1EEBADD92B67D3DCD716
Connection ID	0000000000000000000000000000000
Call Counter	0

Parameter details

Message	30/usr,
Program	rstsfh
Location	3

The whole picture of this update termination during my invoice creation process may like this:

1. The Invoice been generated temporarily successfully at buffer but hasn't been saved yet, system carries on output processing and encounters an access error when reading the file at path /usr/... (This may be caused by consistency check in Temporary sequential Data-TemSE).
2. This denied access lead to update termination of the whole invoice processing. Meanwhile, this temporary invoice number been occupied but not been saved and can't be used by the following invoice as well.
3. The system left detail logs can be checked at SM21 and generate an update termination event can be checked at SM13. Btw this update termination makes the number broken at the table like VBRK.

If still no clue till now, you can start debug now 😃 Remember to use the update debugging, if not familiar with it please check this.

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Michelle Crapo
May 18, 2021 at 12:34 pm

Another fun transaction to know - just in case your transaction dumps during an update.

SM12 to release locks.   Of course, use that carefully.

Another nice blog - with some good tips!

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Jigang Zhang 张吉刚 | Blog Post Author
May 18, 2021 at 2:00 pm

@Michelle Crapo

Thanks. You're right, forget to mention the SM12 😃

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