

# How to Repair Master/Transaction Data Load Error Due to tRFC Stuck



## Applies to:

Load monitoring using Sap BI 7.x. Source systems being SAP R/3 or ECC. For more information, visit the [EDW homepage](#).

## Summary

This article helps to fix a master/transaction data load error which has happened due to tRFC stuck in SAP source system. This is explained in detail with step by step screen shots for master data error. Most of the time, consultants used to repeat the load process during load error cases but it could be avoided especially when the cause of the error is tRFC stuck.

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## Master Data Load Error

Suppose there is a master data load (InfoPackage) process in a process chain which you are monitoring. This infopackage could be of 'Full Update' or 'Delta' extraction type. In either case, if there is an error in the load process, just repeating is not always the good solution. Try to analyse the root cause and resolve the error. Following scenario assumes the master data is loaded from a SAP R/3 or ECC source system.

### Master Data Load Error Due to tRFC Stuck

There could be 'n' number of reasons for a master data load to fail, for example, duplicate records, invalid values in the records, SID generation failure, due to processing overdue, etc.

Consider the case of processing overdue, one of the reasons this could happen when there is a tRFC stuck in the SAP source system.

We will take this case and see how it can be handled. Please follow the set of below screen shots in order.

#### Step 1

Now we are in the log view of the process chain and we have found an error (Red mark) in one load process and we are going to the Process monitor to check the error.



## Step 2

In Process Monitor, we can see the error "Processing is Overdue". It means there is a timeout error. SAP BI system has waited until the stipulated time and due to lack of response from the Source system it has thrown this error and thus load is halted.

The screenshot shows the SAP BI Process Monitor interface. The top toolbar contains various icons for navigation and actions. The main content area is divided into sections: 'Header', 'Status', and 'Details'. The 'Status' section shows a 'Total' row with a red indicator and a 'Technical' row with the message 'Processing is overdue'. Below this, there are sections for 'Processing Step' and 'Processing End'. A detailed error message box is displayed, containing the following text:

**Short dump in the Warehouse**

**Diagnosis**  
The data update was not finished. A short dump has probably been logged in BI. This provides information about the error.

**System Response**  
"Caller 70" is missing.

**Further analysis:**  
Search the BI short dump overview for the short dump that belongs to the request. Pay attention to the correct time and date on the selection screen.  
You access a short dump list using the wizard or the menu path "Environment -> Short dump -> In the Data Warehouse".

**Error handling:**  
Follow the instructions in the short dump.

## Step 3

There could be various reasons why Source system has not responded. In previous image, you can see there is a short dump in the warehouse. Now just go to the Details tab to view the error details. While moving to Details tab if it shoots warning for IDoc, just press NO button. By drilling down to the error, we can make out that there is a DataPackage which has not yet processed. You can see the text

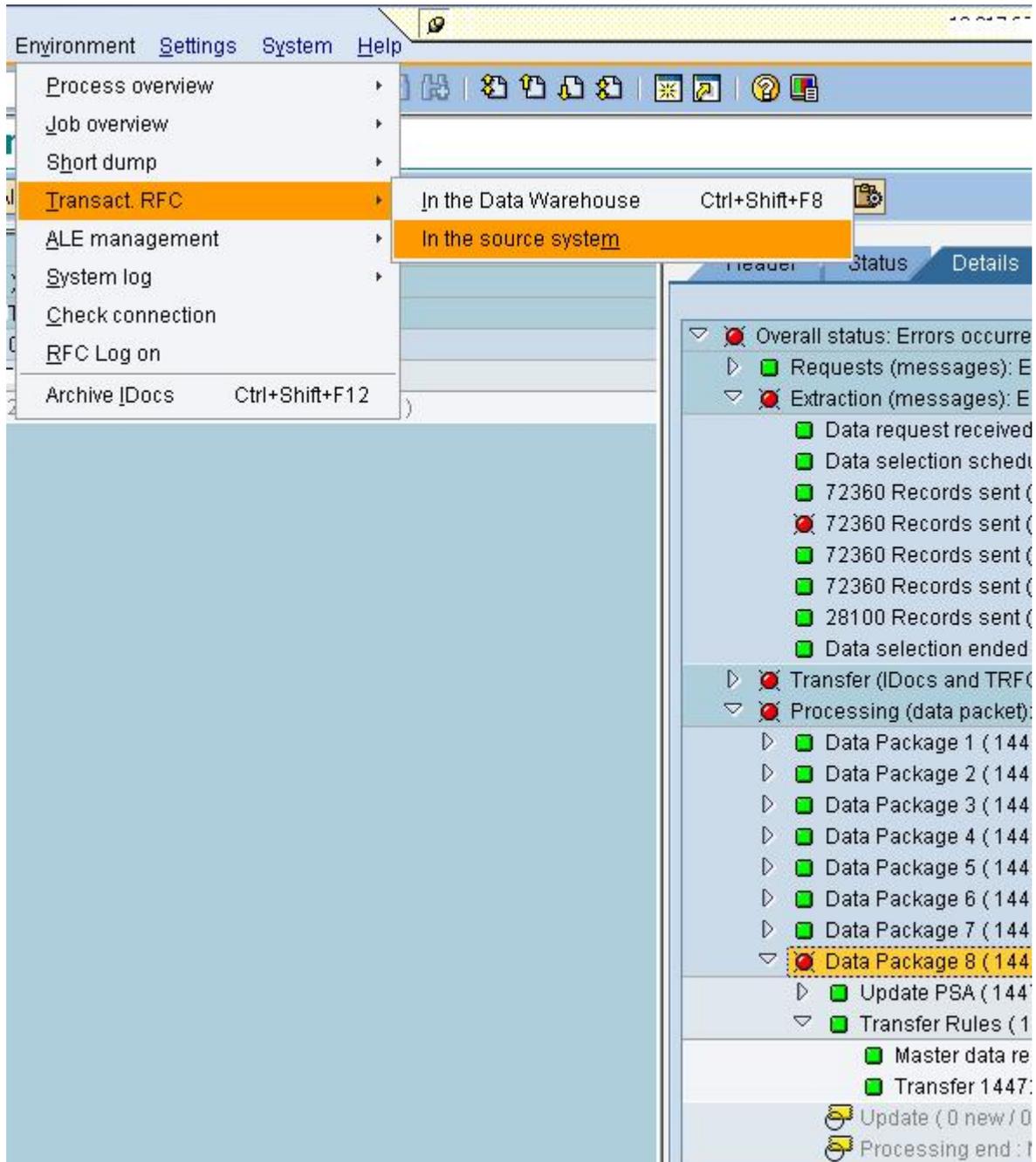
“Update(0 new / 0 changed) Missing Messages”. It means SAP BI system is expecting some messages from SAP R3 source system which has not arrived.

The screenshot shows the 'Details' tab of a data load process. The overall status is 'Errors occurred: or: Missing messages'. The process is broken down into several stages:

- Requests (messages):** Everything OK
- Extraction (messages):** Errors occurred
  - Data request received
  - Data selection scheduled
  - 72360 Records sent ( 72360 Records received )
  - 72360 Records sent ( 72360 Records received )
  - 72360 Records sent ( 72360 Records received )
  - 72360 Records sent ( 72360 Records received )
  - 28100 Records sent ( 28100 Records received )
  - Data selection ended
- Transfer (IDocs and TRFC):** Errors occurred
- Processing (data packet):** Errors occurred
  - Data Package 1 ( 14472 Records ) : Everything OK
  - Data Package 2 ( 14472 Records ) : Everything OK
  - Data Package 3 ( 14472 Records ) : Everything OK
  - Data Package 4 ( 14472 Records ) : Everything OK
  - Data Package 5 ( 14472 Records ) : Everything OK
  - Data Package 6 ( 14472 Records ) : Everything OK
  - Data Package 7 ( 14472 Records ) : Everything OK
  - Data Package 8 ( 14472 Records ) : Errors occurred:**
    - Update PSA ( 14472 Records posted ) : No errors
    - Transfer Rules ( 14472 -> 14472 Records ) : No errors
      - Master data received. Processing being started.
      - Transfer 14472 data records in communication structure
    - Update ( 0 new / 0 changed ) : Missing messages
    - Processing end : Missing messages
  - Data Package 9 ( 14472 Records ) : Everything OK
  - Data Package 10 ( 14472 Records ) : Everything OK

## Step 4

Sap BI system and SAP R3 Source system communicates using tRFC and so at the first step we will look in to the status of tRFC in the source system, whether any tRFC has stuck there. To check tRFC, follow the steps as shown in the following screen shots.



Step 5

Just give the credentials for source system and login

### SAP R/3

New password

Remote logon

Client	170
User	
Password	*****
Language	EN

Step 6

Already the current date and BW background user will be filled. If required just fill your required data in this screen and then Execute search. Usually leave the values as it is and then Execute.

Program Edit Goto System Help

Transaction RFC

Dis	Execute (F8)	18.01.2011	to		
User name	BWREMOTE		to		
TRFC Function	* [F4]		to		
TRFC Destination	* [F4]		to		
TRFC Status	* [F4]		to		

## Step 7

In the search result, you can see the list of tRFCs with its status. In this case you can see there is one tRFC with the status “Transaction recorded” and also you can see the specific time for it. It means this tRFC has been ready but not yet reached the SAP BI system. Since SAP BI system didn’t receive this tRFC for long time, it has timed out and showed the error “Processing is Overdue” . So if we manually process this tRFC then this message will reach Sap BI system, for that just select that item and right click and press “Execute LUW” to push this tRFC.

### Transactional RFC

er	Function module	Target system	Date	Time	Status text	Transact
NOTE	RSAR_TRFC_DATA_RECEIVED	WIC_100AEM	18.01.2011	23:14:55	Transaction recorded	18.01.2011

Help	F1
Choose	F2
Back	F3
Possible entries	F4
Execute LUW	F6
Refresh	F8
Display planned jobs	F9
Cancel	F12
Delete entry	Shift+F2
Exit	Shift+F3
Download	Shift+F8
First page	Shift+F9
Previous page	Shift+Ctrl+0
Next page	Shift+F11
Last page	Shift+F12

## Step 8

Now come back to the SAP BI system process monitor by pressing BACK button and then press the “Refresh tree” menu button.



If it refreshes , you can see the message will reach Sap BI system this would succeed the process and thereafter process chain will move further.

## Step 9

In case, if this doesn’t solve the issue, if it fails again, then come back to conventional repair method which is to Repeat the process from process chain logview.

Note :This above explained process can be applicable for Delta Infopackage - transaction loads also. Just you can try checking for the stucked tRFC in source systems and execute manually (F6) to push it to SAP BI system and check whether it has resumed the failed load process again in BI system. Definitely this would save your time.

## Related Content

[SDN - IDOC getting stuck in ECC in TRFC queue?](#)

[SDN - Error handling due to IDOC failure](#)

[SDN - Reg Data Load failure](#)

[Help.SAP - Queue Status in SMQ1 and Table ARFCRSTATE](#)

For more information, visit the [EDW homepage](#)

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