

About ITAB Duplicate_Key (SAP Irsaods) Runtime Error



Applies to:

SAP NetWeaver BW 3.x. For more information, visit the [Business Intelligence homepage](#).

Summary

This article explains about the Runtime Error ITAB_DUPLICATE_KEY which occurs when an old client system connection has been removed where some unused objects are still remaining, failing to be cleaned up properly; this causes duplicates in RSISOSMAP table resulting in several entries with the same transfer structure and correction program RSAR_RSISOSMAP_REPAIR to resolve it.

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Author Bio



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Table of Contents

Introduction	3
About ITAB_DUPLICATE_KEY	3
About Report Program RSAR_RSISOSMAP_REPAIR.....	3
Procedure	6
Related Content.....	10
Disclaimer and Liability Notice.....	11

Introduction

In a system landscape where a BW Client is pointed by different Logical Source System connections(Say DV1CLI130,NDEVCLI100) which can be added and removed on a regular basis, leads to inconsistency within the servers; especially after transporting objects. This results in failure of data loading activity, resulting in ABAP Dump with runtime error **ITAB_DUPLICATE_KEY**.

This article explains about the Runtime Error **ITAB_DUPLICATE_KEY** which occurs when an old client system connection has been removed where some unused objects are still remaining, failing to be cleaned up properly, this causes duplicates in **RSISOSMAP** table resulting in several entries with the same transfer structure and hence the ABAP dump with Runtime Error **ITAB_DUPLICATE_KEY** when loading the data and about Report Program **RSAR_RSISOSMAP_REPAIR** to resolve the runtime error.

About ITAB_DUPLICATE_KEY

Runtime error ITAB_DUPLICATE_KEY in the Function Pool **SAPLRSAODS** program results while Performing the following actions:

- Searching the Info Source tree in the AWB
- Deleting objects in the AWB
- Activating ODS data
- Duplicate entries for same Transfer Structure

About Report Program RSAR_RSISOSMAP_REPAIR

RSAR_RSISOSMAP_REPAIR is correction report which

In the test mode (repair indicator is not set), searches the table RSISOSMAP for entries with the same transfer structure. These entries are displayed if available.

In repair mode (the repair indicator is set), the program first checks the RSISOSMAP table and corrects any incorrect entries found. A log is then written for the mappings that were corrected. Activate the transfer rules named in the log after you execute the program again.

After you exit the program, you can display the written logs in transaction SLG1 using Object = 'RSAR'; Subobject = 'METADATA'; and External ID = 'RSAR_RSISOSMAP_REPAIR'.

Below are the Screen shots of Application Log for reference.

Application Log

Date/Time/User	Jumble	External ID	Object bt	Sub-object text	Tran	Program	Mode	Log number
22.08.2009 14:58:40 49037	1	RSAR_RSISOSMAP_RE...	Business Infor...	Business Infor...	SE38	SAPLRSAL	Dialog processing	0000000000000304984
Problem class medium 1								

Ty... Message Text
 ZPML_CALNDEVCL100 ZPML_CAL_DD changed

With Duplicate Transfer Structures form different Logical Systems, results in the ABAP dump when loading the data from the Source System.

Below is the Error Dump Screen shot.

The screenshot shows the SAP ABAP Runtime Error dialog box. The title bar reads "ABAP Runtime Error". Below the title bar is a menu bar with "Runtime Errors", "Edit", "Goto", "System", and "Help". A toolbar with various icons is located below the menu bar. The main content area is divided into several sections:

- Debugger**: A button with a magnifying glass icon.
- Runtime Errors**: A table with two columns: "Runtime Errors" and "Date and Time". The first row shows "ITAB_DUPLICATE_KEY" and "22.08.2009 15:18:42".
- Short text**: A text box containing "A row with the same key already exists."
- What happened?**: A text box containing "Error in the ABAP Application Program" and "The current ABAP program 'SAPLRSAODS' had to be terminated because it has come across a statement that unfortunately cannot be executed."
- What can you do?**: A text box containing "Note down which actions and inputs caused the error.", "To process the problem further, contact you SAP system administrator.", and "Using Transaction ST22 for ABAP Dump Analysis, you can look".

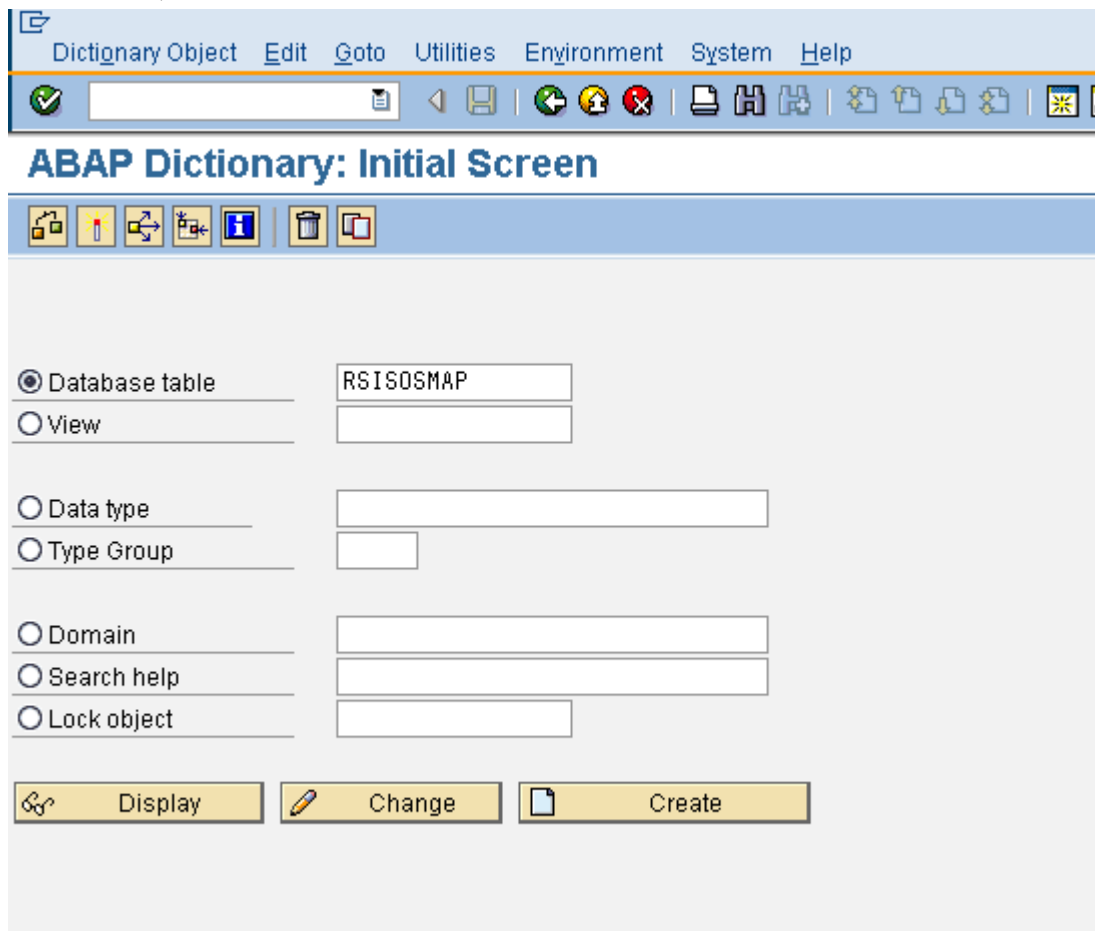
We can find the Runtime Error **ITAB_DUPLICATE_KEY** in the Function Pool **SAPLRSAODS** program which results in load termination.

Procedure

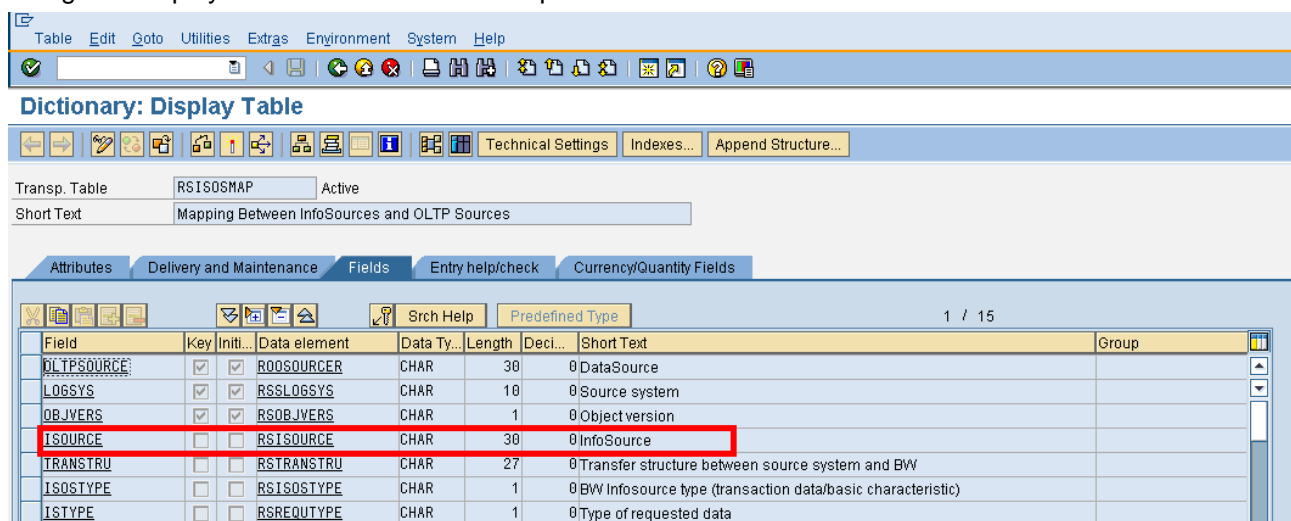
Runtime Error **ITAB_DUPLICATE_KEY** is resulted because of Duplicate Transfer Structures from different Logical Systems.

You can find the corresponding entries in the table **RSISOSMAP**.

Go To **SE11**,



Going with display we can look into the Transparent Table Structure.



On executing, we have the option to give the InfoSource name (**ISOURCE**) for which the data load got failed with Runtime Error **ITAB_DUPLICATE_KEY**.

Program Edit Goto Settings System Help

Data Browser: Table RSISOSMAP: Selection Screen

Number of Entries

OLTPSOURCE to

LOGSYS to

OBJVERS to

ISOURCE ZIS_PMI_CAL to

TRANSTRU to

ISOSTYPE to

ISTYPE to

TSTPNM to

TIMESTMP to

CONTREL to

CONTTIMESTMP to

ISSRCTYPE to

INVISIBLE to

Width of Output List 250

Maximum No. of Hits 200

On executing, you can find the duplicate entries for Transfer Structure **ZPMI_CAL_DD** from Logical Systems **DV1CLI130** and **NDEVCLI100** in below case for InfoSource **ZIS_PMI_CAL**.

Table Entry Edit Goto Settings System Help

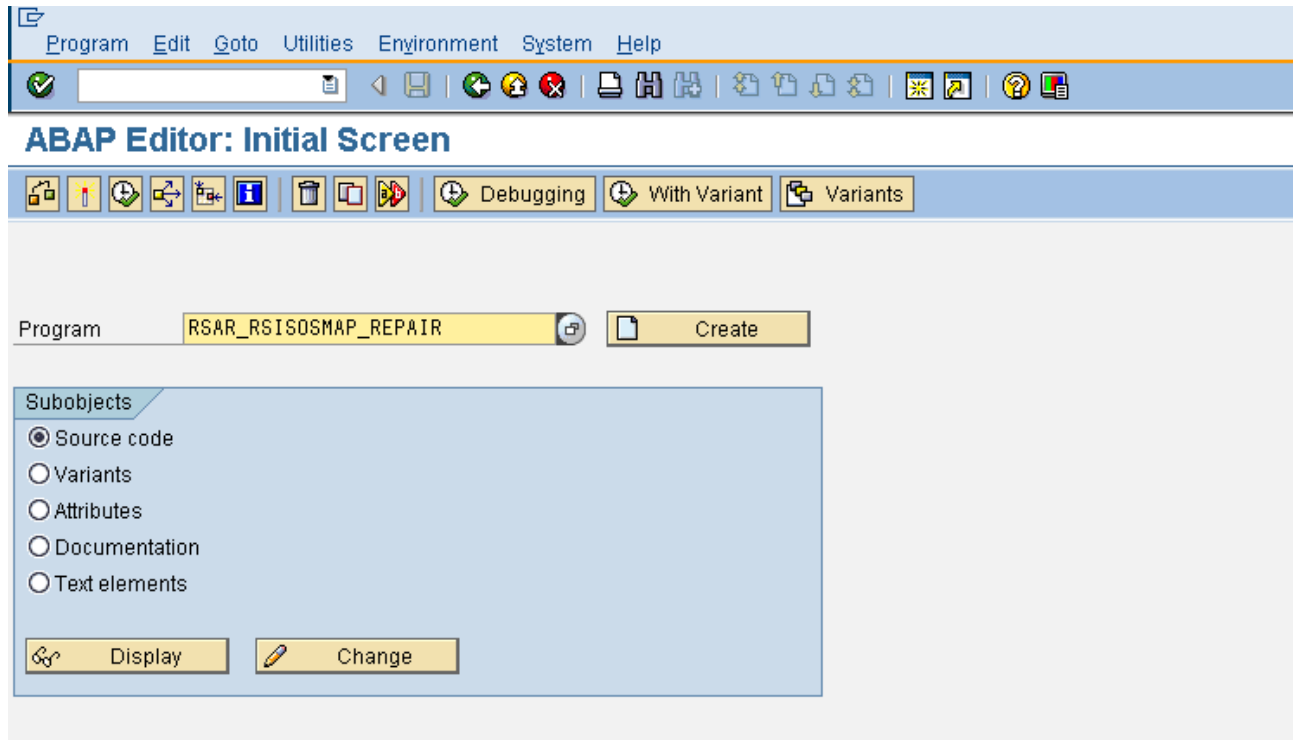
Data Browser: Table RSISOSMAP Select Entries 2

Check Table...

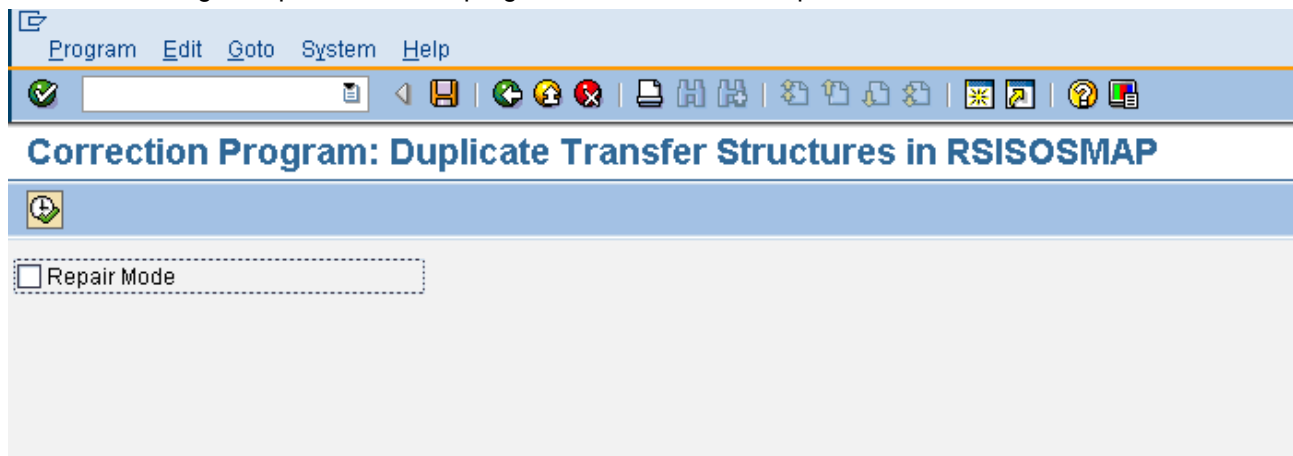
OLTPSOUR...	LOGSYS	OBJVE...	ISOURCE	TRANSTRU	ISOSTYPE	ISTY...	TSTPNM	TIMESTMP	CONTREL	CONTTIMESTMP	ISSRCTYPE	INVISIBLE
ZPMI_CAL	DV1CLI130	A	ZIS_PMI_CAL	ZPMI_CAL_DD	D	49037	20.090.822.091.906			0		
ZPMI_CAL	NDEVCLI100	A	ZIS_PMI_CAL	ZPMI_CAL_DD	D	49037	20.080.923.111.857			0		

Now to eliminate the runtime error we need to run the Report Program **RSAR_RSISOSMAP_REPAIR** for Correction of Entries in table RSISOMAP.

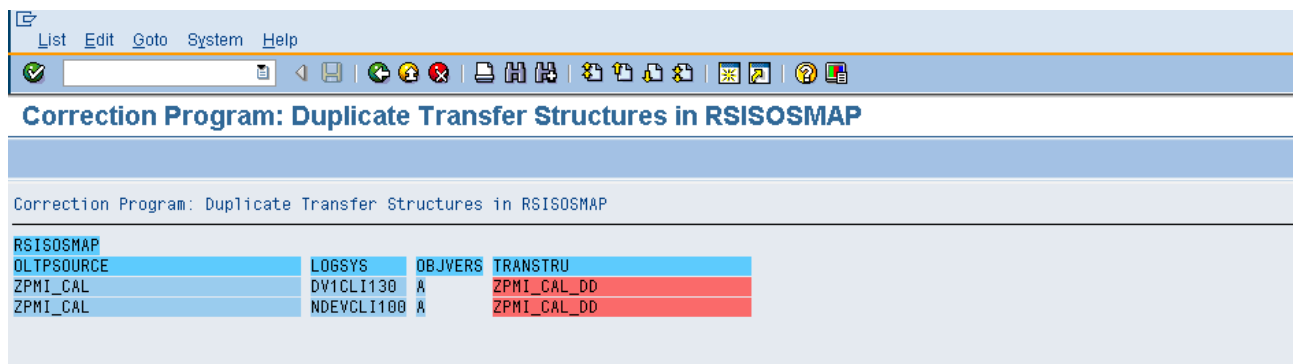
Go To **SE38**,



On executing the Report Program,
 We will be having the option to run the program in Test Mode or Repair Mode.



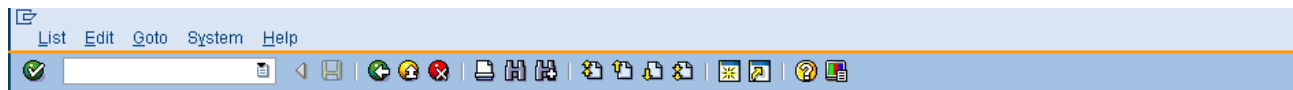
In the test mode (repair indicator is not set), searches the table **RSISOSMAP** for entries with the same transfer structure. These entries are displayed if available.



In **repair mode** (the repair indicator is set), the program first checks the **RSISOSMAP** table and corrects any incorrect entries found. A log is then written for the mappings that were corrected. Activate the transfer rules named in the log after you execute the program again.



Correction Program: Duplicate Transfer Structures in RSISOSMAP



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RSISOSMAP	LOGSYS	OBJVERS	TRANSTRU
OLTPSOURCE	DV1CLI130	A	ZPML_CAL_DD
ZPML_CAL	NDEVCLI100	A	ZPML_CAL_DD



Display logs

Date/Time/User	Jumbe	External ID	Object bt	Sub-object text	Tran	Program	Mode	Log number				
22.08.2009 14:58:40 49037	1	RSAR_RSISOSMAP_RE...	Business Infor...	Business Infor...	SE38	SAPLRSAL	Dialog processing	0000000000000304984				
<table border="1"> <thead> <tr> <th>Problem class</th> <th>medium</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> </tbody> </table>									Problem class	medium	1	
Problem class	medium											
1												

Ty... Message Text

ZPML_CAL/NDEVCLI100 ZPML_CAL_DD changed

On Successful execution of the correction program **RSAR_RSISOSMAP_REPAIR**, error resulted of Duplicate Transfer Structures get resolved and data gets loaded.

Related Content

Taken most of the inputs from **sap help** in preparing this Article.

SAP Note Number: 613449

<https://forums.sdn.sap.com/thread.jspa?messageID=7609103#7609103>

<https://forums.sdn.sap.com/thread.jspa?messageID=7803065#7803065>

For more information, visit the [Business Intelligence homepage](#).

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