

ONESOURCE™ INDIRECT TAX INTEGRATION FOR SAP GLOBAL NEXT

User Guide for Global Next tables Archival using SAP ILM

PRODUCT VERSION 6.7.2.0

Document Version 1

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DOCUMENT HISTORY

VERSION NUMBER	VERSION DATE	SUMMARY
1	June 2023	First release of ONESOURCE Indirect Tax Integration for SAP Global Next – User guide for Global Next tables archival using SAP ILM 6.7.2.0

Archiving of Global Next tables using SAP Information Lifecycle Management (ILM)

LEVERAGING SAP ILM TOOL FOR EFFECTIVE ARCHIVING:

In today's digital age, businesses generate massive amounts of data, and managing this data efficiently is crucial. SAP systems play a vital role in various organizations, serving as a backbone for critical business processes. Over time, these systems accumulate vast volumes of data, leading to increased storage requirements, performance challenges, and compliance concerns. To address these issues, SAP offers the Information Lifecycle Management (ILM) tool, which enables organizations to implement robust data archiving strategies. In this document, we will explore how the SAP ILM tool can be utilized for archiving Global Next tables effectively in SAP.

The tool provides features and functionalities to address data archiving, retention management, data privacy, and legal compliance requirements. By utilizing ILM, businesses can optimize their SAP system's performance, reduce storage costs, and meet regulatory obligations.

Archiving SAP tables involves moving data from active database tables to secondary storage, while retaining its accessibility and integrity. The SAP ILM tool simplifies this process and enables organizations to archive specific tables based on their business requirements. Here's an overview of the archiving process using SAP ILM.

Global Next tables that can be archived using SAP ILM tool:

/IDT/D_AUDIT_REC,
/IDT/D_AUDIT_STA and
/IDT/D_TAX_DATA

This functionality has been introduced from release 6.7.2.0.

High level overview

Once the Global Next transports are imported, the archiving objects and programs are available under /IDT/ namespace.

Using SAP ILM mechanism, data can be archived, read the archived data, delete the archived entries and reload the deleted entries to the table. To achieve the functionality Global Next transports will import the archiving objects with associated reports. After importing transports, there are some manual steps need to be performed listed in this document under '[Implementation Steps](#)'.

Archiving objects included in the transports:

The IDT archiving objects can be viewed from Transaction code: **AOBJ**

/IDT/AUDIT and /IDT/TAXDT.

View Cluster Editing: Initial Screen			
Archiving Object			
Arch.Obj.	Reload program	Delete Program	
/IDT/AUDIT	/IDT/AUDIT_STA_REC_RELOAD	/IDT/AUDIT_STA_REC_DEL	
/IDT/TAXDT	/IDT/TAXDATA_RELOAD	/IDT/TAXDATA_DEL	
/ISDFPS/CD	/ISDFPS/CDOC_ARCHIVE_REL	/ISDFPS/CDOC_ARCHIVE_DEL	
/J7L/DECL		/J7L/DECL_DELETE	
/MVA/ABM	/MVA/ABM_ARCHIVE_RELOAD	/MVA/ABM_ARCHIVE_DELETE	
/MVA/ACE	/MVA/ACE_ARCHIVE_RELOAD	/MVA/ACE_ARCHIVE_DELETE	
/MVA/ACHGV	/MVA/ACHGVEC_ARCHIVE_RELOAD	/MVA/ACHGVEC_ARCHIVE_DELETE	
/MVA/AML	/MVA/AML_ARCHIVE_RELOAD	/MVA/AML_ARCHIVE_DELETE	

Programs associated with the archiving objects:

Each archiving object comes with write, delete and reload programs which are used during Archival process.

View Cluster Editing: Initial Screen			
Object Name: /IDT/AUDIT			
Text	Archive Status & Rec of audit table	Create Documentation	
Application Area	BC		
Application Component	HLB0006315	Archive Development Kit	
Write Program	/IDT/AUDIT_STA_REC_WRI	<input type="checkbox"/> Interruption Possible	
Delete Program	/IDT/AUDIT_STA_REC_DEL	<input type="checkbox"/> Do Not Start Before End of Write Phase	
Reload Program	/IDT/AUDIT_STA_REC_RELOAD	<input type="checkbox"/> Prohibit New Session During Reload	
Preprocessing Prog.			
Postprocessing Program			

View Cluster Editing: Initial Screen			
Object Name: /IDT/TAXDT			
Text	Archive Tax data table	Create Documentation	
Application Area	BC		
Application Component	HLB0006315	Archive Development Kit	
Write Program	/IDT/TAXDATA_WRI	<input type="checkbox"/> Interruption Possible	
Delete Program	/IDT/TAXDATA_DEL	<input type="checkbox"/> Do Not Start Before End of Write Phase	
Reload Program	/IDT/TAXDATA_RELOAD	<input type="checkbox"/> Prohibit New Session During Reload	
Preprocessing Prog.			
Postprocessing Program			

These archiving objects can be used in the transaction code: **SARA** to archive.

Archiving object /IDT/AUDIT archives tables /IDT/D_AUDIT_REC & /IDT/D_AUDIT_STA

Archiving object /IDT/TAXDT archives table /IDT/D_TAX_DATA.

Implementation Steps:

Prerequisite1:

To use ILM for Global Next tables, user must create logical file names in FILE transaction. You can create individual logical file names or assign the same logical file name to both the archiving objects.

Prerequisite2:

For deletion, create two variants like test variant and the production variant.

Variants play key role during archival process.

1. Logical file name and variants need to be assigned for each archiving object to store archiving data.
2. Select the archiving object and click on the customizing settings to set up this data.

View Cluster Editing: Initial Screen

Object Name: /IDT/TAXDT Archive Tax data table

Logical File Name: ARCHIVE_DATA_FILE

Archive File Size

Maximum Size in MB: [redacted]

Maximum Number of Data Objects: 100

Settings for Delete Program

Commit Counter: 20

Test Mode Variant: TESTVAR Variant

Live Mode Variant: PRODVAR Variant

Delete Jobs

Not Scheduled

Start Automatically

After Event

Event: [redacted]

Parameter: [redacted]

Place File in Storage System

Content Repository: [redacted]

Start Automatically: [checkbox]

Order

Delete Before Storing

Store Before Deleting

Delete Program Reads from Storage System: [checkbox]

- a. File name can be created in transaction FILE.
- b. Two variants need to be created for deletion process, TESTVAR and PRODVAR as shown above for deletion process or any user specific that needs to be assigned in above screenshot by clicking Variant button.

Test Mode Variant is the test mode.

Archiving Audit Rec&Status: Delete Program for ADK-Based Archiving



Processing Options

- Test Mode
- Production Mode

Live Mode variant is the production mode.

Archiving Audit Rec&Status: Delete Program for ADK-Based Archiving



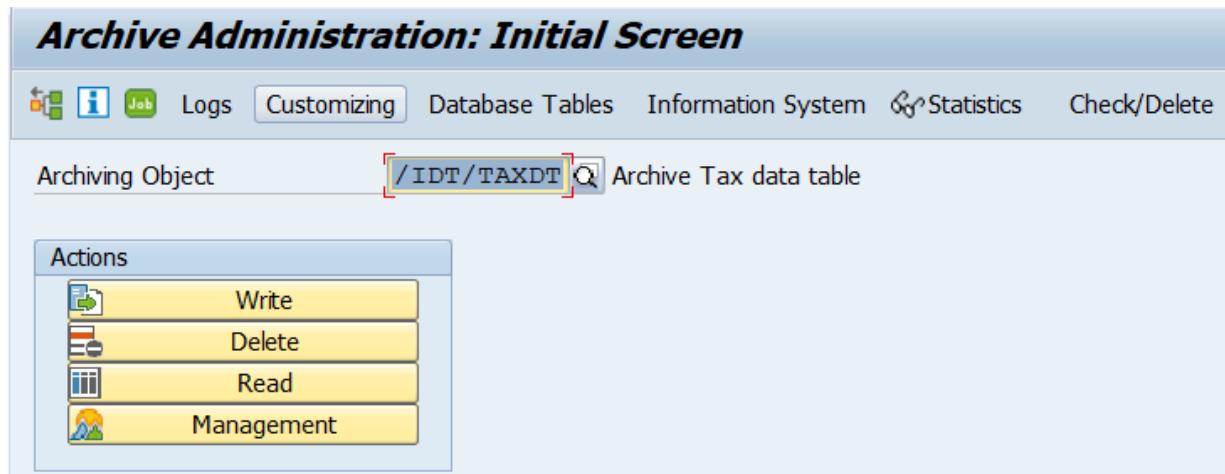
Processing Options

- Test Mode
- Production Mode

Execution of Archival process for Global Next tables

Archiving the tables using transaction code : SARA

Users can use the transaction SARA to write(archive), Delete the archived data, Read the archived data and Reload the deleted data to tables /IDT/D_TAX_DATA, /IDT/D_AUDIT_REC and /IDT/D_AUDIT_STA.



Provide the archiving object name and select the actions.

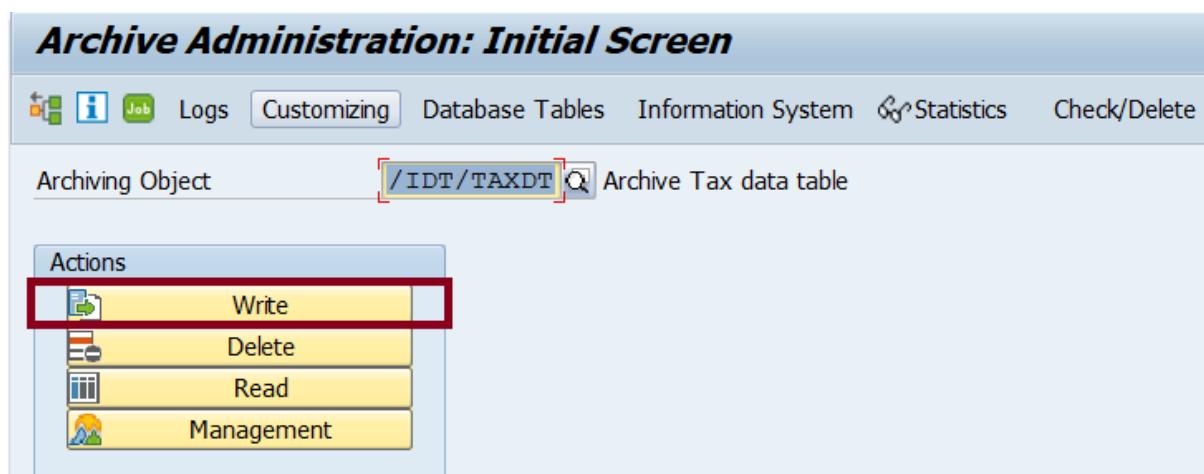
WRITE PROCESS:

You can use 'Write' to write the data from /IDT/D_TAX_DATA table that is defined in the variant to the logical file name.

You can run it in two modes

1. Test mode
2. Production mode.

Click on the 'Write' button.



Click on Edit to create variant in either test mode or production mode.

Archive Administration: Create Archive Files

Archive Tax data table

Client	800
Variant	WRITE_VARIANT
User Name	VISHNUV

Start Date Not Defined
Spool Parameters Not Defined

Edit

Edit Variants: Variant WRITE_VARIANT

Attributes

Tax Data Selection

Company Code	DE01
Fiscal Year	2023
Document Type	BKPF
Document Number	5100000176

to

to

to

Processing Options

Test Mode
 Production Mode

Detail Log No detail log
Log Output List
Archiving Session Note

After the variant was saved, provide the start date and spool parameters to start the job.

Archive Administration: Create Archive Files

Archive Tax data table

Client	800
Variant	WRITE_VARIANT
User Name	VISHNUV

Start Date Not Defined
Spool Parameters Not Defined

Once you click on execute the below message appears.

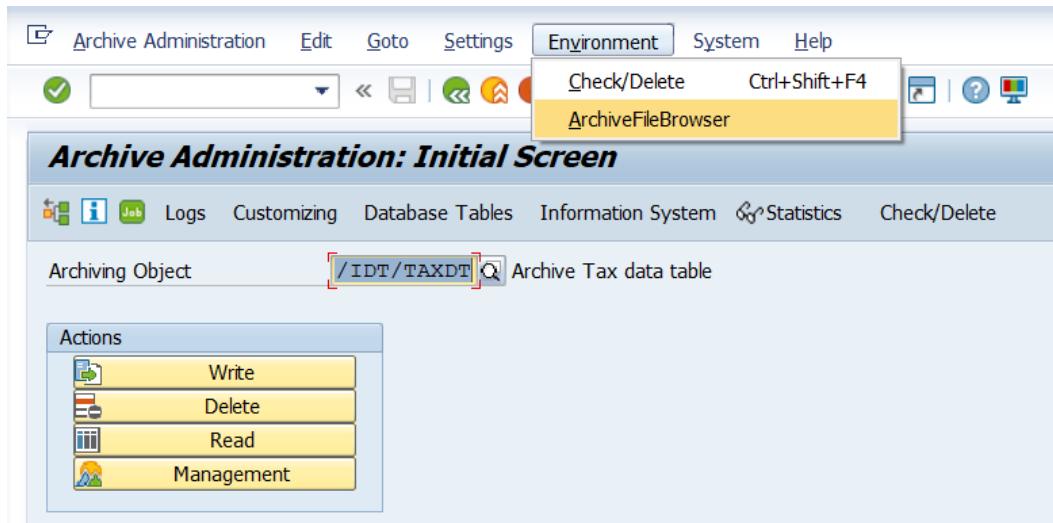
New archiving job was scheduled

The job log shows the path where the archive data is written.

JobName	Spool	Job doc	Job CreatedB	Status	Start date	Start Time	Duration(sec.)	Delay	Cli	Reason for Delay
ARV_IDT/TAXDT_WRI20230628191012				VISHNUV	Finished	06/28/2023	19:10:12	2	0	800
*Summary							2	0		

Date	Time	Message text	Message class	Message no.	Message type
06/28/2023	19:10:12	Job ARV_IDT/TAXDT_WRI20230628191012 19101200 started	00	516	S
06/28/2023	19:10:12	Step 001 started (program /IDT/TAXDATA_WRI, variant WRITE_VARIANT, user ID VISHNUV)	00	550	S
06/28/2023	19:10:12	Archiving session 000004 is being created	BA	276	S
06/28/2023	19:10:12	Path: D:\usr\sap\HS4\SYS\global\	BA	160	S
06/28/2023	19:10:12	Name for new archive file: BC_IDT-TAXDT_20230628_191012_0.ARCHIVE	BA	137	S
06/28/2023	19:10:12	9 % (1 of 11) of the individual Tax Data were archived	KEN_01	004	S
06/28/2023	19:10:14	Job finished	00	517	S

The Archived data can be viewed from transaction SARA→Environment→ArchiveFileBrowser

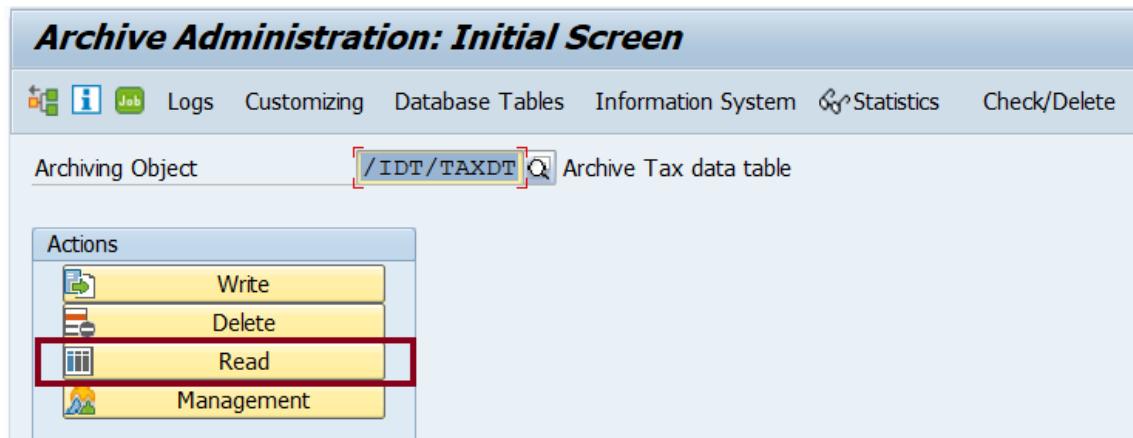


ArchiveFileBrowser																					
Object/Session/File		Number	Archive File 000004-001/IDT/TAXDT																		
Object/Session/File		Number	1	From	1	Offset	1,842														
CoCd	Year	Doc	Doc Number	Doc Line #	Tax Line	Det	S	Authority	UUID	C	ERP Tax	Document Date	Tax Det Dr	Tx Ex Rt D	Tax Point Date	N	D	Ta	I		
DE01	2023	BKPF	5100000176	1	1	1	X	Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/08/2023	05/08/2023	05/08/2023	P	I	S	F			
DE01	2023	BKPF	5100000176	1	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/08/2023	05/08/2023	05/08/2023	P	I	S	F			
DE01	2023	BKPF	5100000177	2	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/08/2023	05/08/2023	05/08/2023	P	I	S	F			
DE01	2023	BKPF	5100000178	1	1	1	X	Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/01/2023	05/01/2023	05/01/2023	P	I	S	F			
DE01	2023	BKPF	5100000178	1	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/01/2023	05/01/2023	05/01/2023	P	I	S	F			
DE01	2023	BKPF	5100000178	1	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/01/2023	05/01/2023	05/01/2023	P	I	S	F			
DE01	2023	BKPF	5100000177	1	1	1		France	142017c4-147c-461c-8f68-fdebbaa19ae	B	V8-ESE	05/08/2023	05/08/2023	05/08/2023	P	O	A	F			
DE01	2023	BKPF	5100000177	1	2	1		France	142017c4-147c-461c-8f68-fdebbaa19ae	B	V8-ESE	05/08/2023	05/08/2023	05/08/2023	P	I	A	C			
DE01	2023	BKPF	5100000178	2	1	1	X	Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/01/2023	05/01/2023	05/01/2023	P	I	S	F			
DE01	2023	BKPF	5100000178	2	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/01/2023	05/01/2023	05/01/2023	P	I	S	F			
DE01	2023	BKPF	5100000176	2	1	1	X	Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/08/2023	05/08/2023	05/08/2023	P	I	S	F			
DE01	2023	BKPF	5100000176	2	1	1		Germany	2bfb431c-e1df-4a4a-8380-a06a6572356e	B	V1-VST	05/08/2023	05/08/2023	05/08/2023	P	I	S	F			

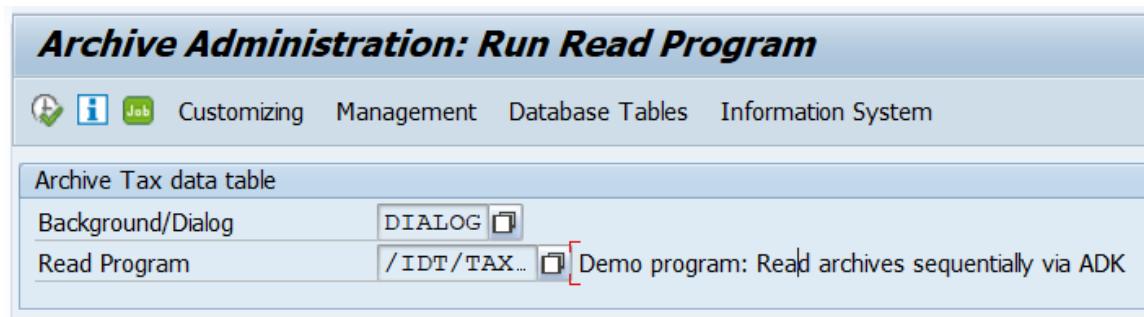
READ PROCESS:

The archived data can be read through read operation:

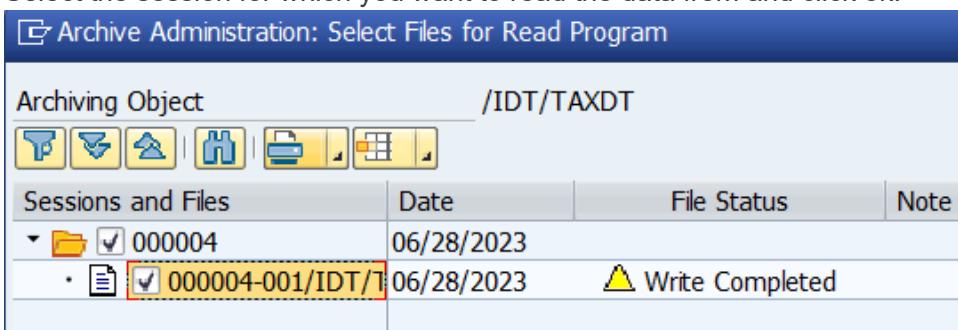
Click on 'Read'



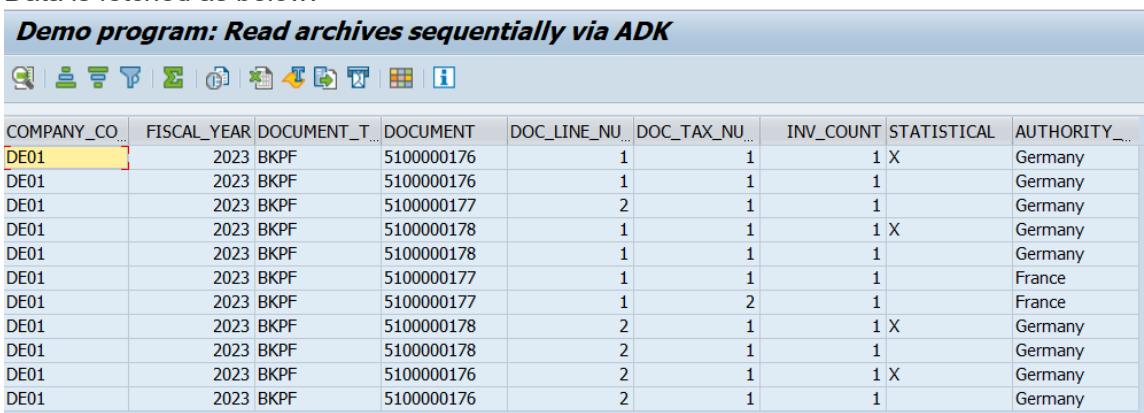
Click on Execute



Select the session for which you want to read the data from and click ok.



Data is fetched as below.



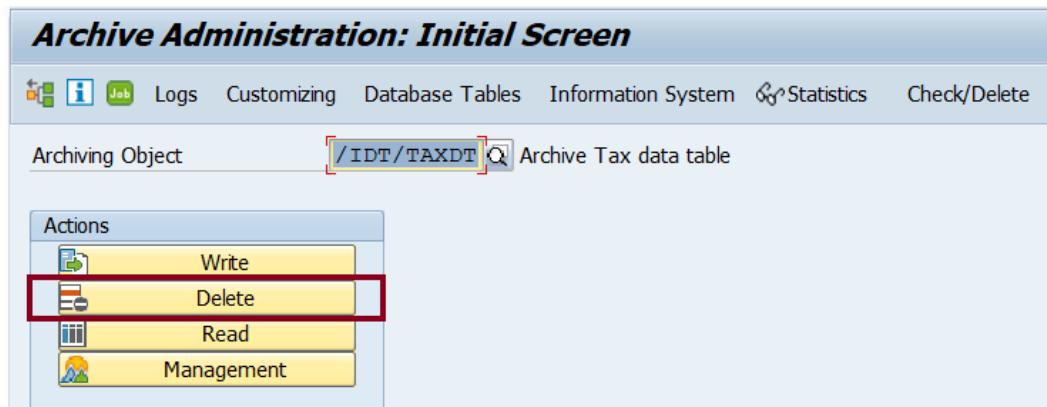
The screenshot shows the 'Demo program: Read archives sequentially via ADK' output. It displays a table of data with the following columns: COMPANY_CO, FISCAL_YEAR, DOCUMENT_T, DOCUMENT, DOC_LINE_NUM, DOC_TAX_NUM, INV_COUNT, STATISTICAL, and AUTHORITY_. The data shows multiple entries for company DE01, fiscal year 2023, document type BKPF, and various document numbers and line/tax numbers. The 'STATISTICAL' column contains '1 X' and '1' entries, and the 'AUTHORITY_' column shows 'Germany' and 'France'.

COMPANY_CO	FISCAL_YEAR	DOCUMENT_T	DOCUMENT	DOC_LINE_NUM	DOC_TAX_NUM	INV_COUNT	STATISTICAL	AUTHORITY_
DE01	2023	BKPF	5100000176	1	1	1	X	Germany
DE01	2023	BKPF	5100000176	1	1	1		Germany
DE01	2023	BKPF	5100000177	2	1	1		Germany
DE01	2023	BKPF	5100000178	1	1	1	X	Germany
DE01	2023	BKPF	5100000178	1	1	1		Germany
DE01	2023	BKPF	5100000177	1	1	1		France
DE01	2023	BKPF	5100000177	1	2	1		France
DE01	2023	BKPF	5100000178	2	1	1	X	Germany
DE01	2023	BKPF	5100000178	2	1	1		Germany
DE01	2023	BKPF	5100000176	2	1	1	X	Germany
DE01	2023	BKPF	5100000176	2	1	1		Germany

DELETE PROCESS:

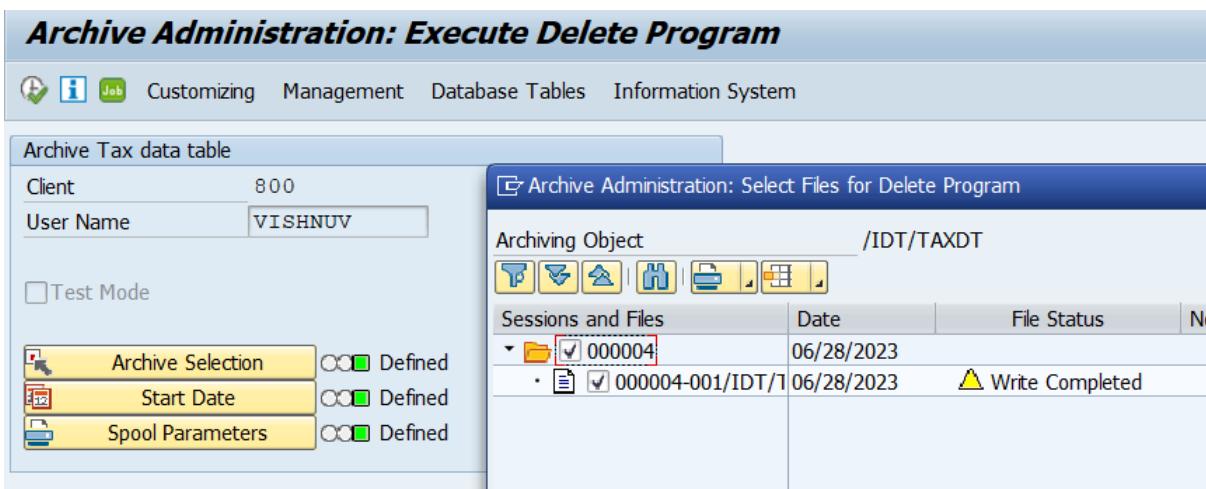
Until previous step, the data was archived but not deleted from the /IDT/D_TAX_DATA table.

Delete – it will delete the data from table based on already archived data.



Deletion can be executed in test mode or production mode.

After Archive selection, start date and Spool parameters are defined, the deletion can be executed.



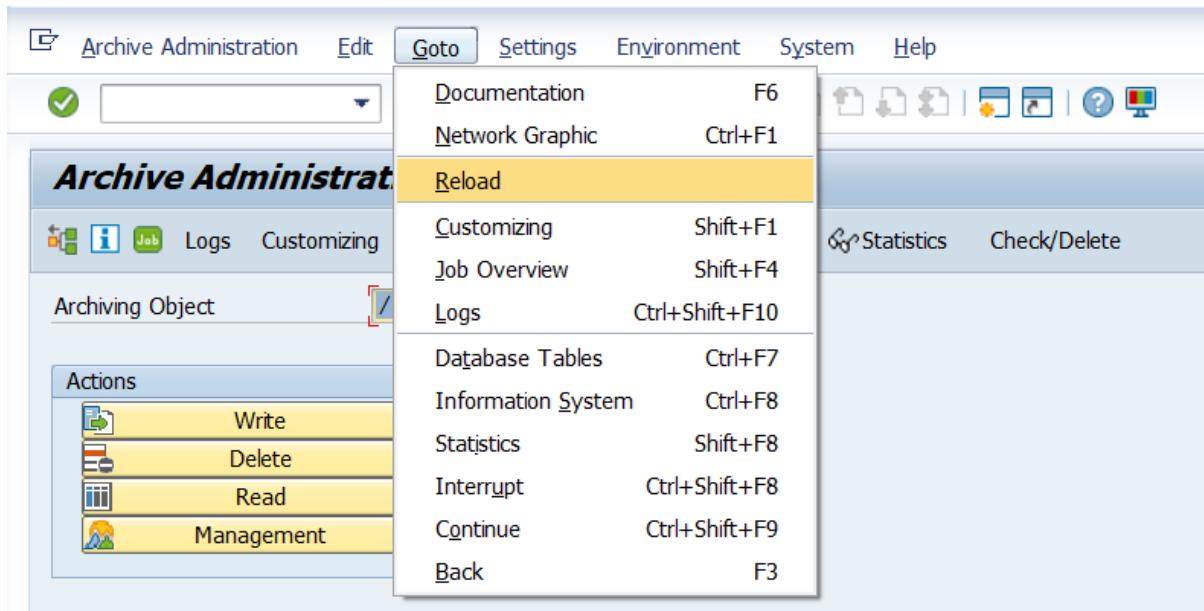
Message will be displayed once the deletion jobs are scheduled.

New deletion jobs were scheduled

Once the job is successfully completed, the data will be deleted from the table.

RELOAD PROCESS:

The deleted in the prior example can be reloaded back to the table using 'Reload' option.

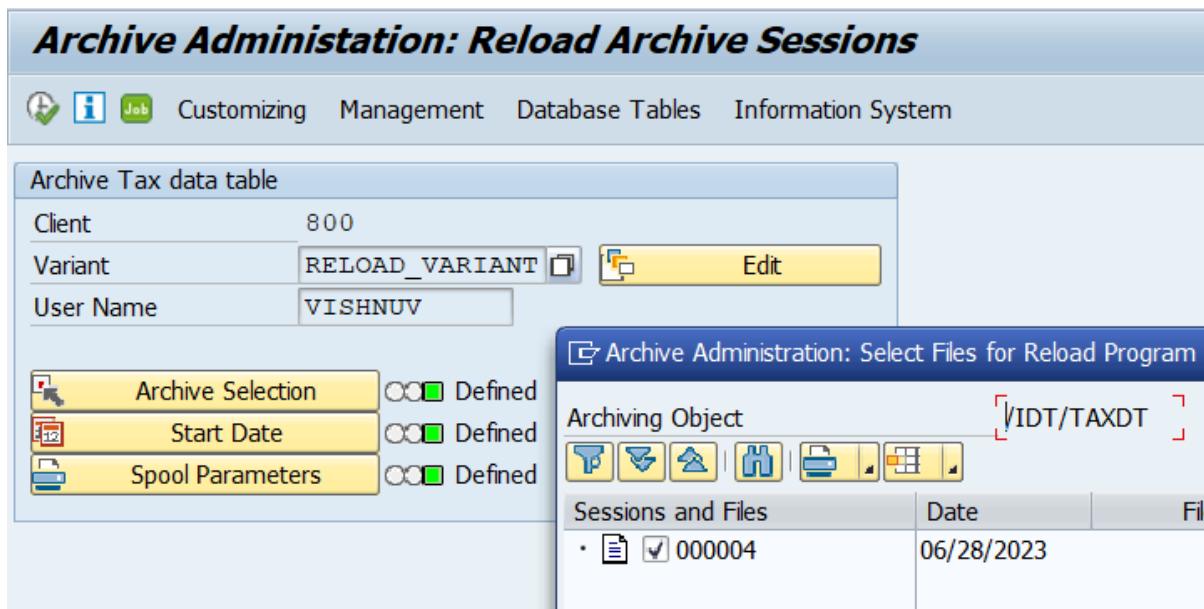


Reload also needs test mode variant and production variant similar to Deletion process.

Note: Delete and reload can be done only for the entries archived which can be seen from Read Operation.

Select the respective Sessions and Files to be reloaded using Archive selection.

Once all the parameters are set and executed, the deleted data will be reloaded back to the tables.



The logs and job logs for various runs can be seen by clicking the 'Logs' button in the transaction 'SARA'.

Logs

Job Overview Job Log Spool List | 

Archiving Object/Action/Logs	Proc....	Session	O
▼  /IDT/TAXDT (Archive Tax data table)			
▼  Write			
·  06/28/2023 19:10:12 VISHNUUV	Produc...	000004	
·  06/28/2023 18:28:55 VISHNUUV	Produc...	000003	
·  06/28/2023 18:15:59 VISHNUUV	Produc...	000002	
·  06/28/2023 18:12:05 VISHNUUV	Produc...	000001	
·  06/28/2023 17:26:14 VISHNUUV		000000	
·  06/28/2023 17:24:47 VISHNUUV			
▼  Delete			
·  06/28/2023 21:11:02 VISHNUUV	Produc...	000004	
·  06/28/2023 19:30:49 VISHNUUV	Test ...	000004	
▼  Reload			
·  06/28/2023 21:25:38 VISHNUUV	Produc...	000005	00.