

Archiving DOE Objects



Applies to:

SAP NetWeaver 7.1 SP03 release and above. For more information, visit the [Mobile homepage](#).

Summary

This Article gives a brief overview of how to use the ADK framework to archive DOE objects.

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Business Scenario

Ideally, in any business environment there are lots of messages/data exchanged between the backend and the client through Data orchestration engine. This results in lot of data getting stored in the DOE tables.

Archiving the data in the log and trace tables in the Data Orchestration Engine (DOE) at regular intervals is to ensure that the size of the tables does not increase significantly. Identically Archive the data in the message store tables in the Data Orchestration Engine (DOE) at regular intervals is to ensure that the size of the tables does not increase significantly.

This Document gives a brief overview of how to use the Archive Deployment toolkit to archive objects of Data Orchestration Engine.

Archiving Logs and Traces

There are different programs for different activities involved in archiving using the ADK framework – Write program, Delete Program and Read programs. Each program is specific to the Archiving object.

Variant for Write program

- The snapshot of the write program for logs and traces is shown below.

Archiving Logging and Tracing Tables

The screenshot shows the SAP Archiving Logging and Tracing Tables configuration interface. It includes the following sections:

- Logs and Traces:** Four rows of input fields for Environment, Process ID, Subprocess ID, and Sequence Number, each with a 'to' field and a selection arrow.
- Further Selection Criteria:** A group of radio buttons for selecting a date range: Date Range (selected), Last Week, Last Month, Last 6 Months, and Until Yesterday.
- Date Selection:** A group of input fields for Date Range with a selection arrow.
- Processing Options:** A group of radio buttons for selecting a mode: Test Mode (selected) and Production Mode.
- Detail Log:** A dropdown menu with 'No Detail Log' selected.
- Log Output:** A dropdown menu with 'List' selected.
- Archiving Session Note:** A text input field.

1. Log on to the SAP NetWeaver AS and start transaction SDOE_WRITELOG.
2. Enter the environment, process ID, sub process ID, and sequence number.
3. Under *Further Selection Criteria*, select the required time period.
4. Under *Date Selection*, enter the required dates. This step is applicable only if you select the *Date Range* option in step 3.
5. Under *Processing Options*, select the required mode.
6. In the *Detail Log* field, select the required option.
7. In the *Log Output* field, select the required output option.
8. In the *Archiving Session Note* field, enter a note for the session if required.
9. Choose *Save*.

Archiving Logging and Tracing Tables

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Logs and Traces

Environment	BACKEND_INTEGRATIO	to		➡
Process ID		to		➡
Subprocess ID		to		➡
Sequence Number		to		➡

Further Selection Criteria

Date Range
 Last Week
 Last Month
 Last 6 Months
 Until Yesterday

Processing Options

Test Mode
 Production Mode

Detail Log	No Detail Log
Log Output	List
Archiving Session Note	Backend Integration Archive Nov

- Define a variant to archive the data and enter the description and save. The Variant is saved.

Variant Attributes

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Copy Screen Assignment

Variant Name	BI_NOV9/12	
Meaning	Backend Intergration archiving	

Only for Background Processing
 Protect Variant
 Only Display in Catalog
 System Variant (Automatic Transport)

Scrn Assignm.	
Created	Selection Scrms
☑	1000

Objects for selection screen											
Selection Scrms	Field name	Type	Protect field	Hide field	Hide field 'BIS'	Save field without values	Switch GPA off	Required field	Selection variable	Option	Name of Variable (Input Only Using F4)
1.000	Environment	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Process ID	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Subprocess ID	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Sequence Number	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Date Range	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Last Week	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Last Month	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Last 6 Months	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Until Yesterday	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Date Range	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	P_AR_ILM	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	P_SNAP	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	P_DEST	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Test Mode	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Production Mode	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Delete with Test Variant	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Detail Log	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Log Output	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.000	Archiving Session Note	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Archive Logs and Traces

- Go To transaction **SARA** and enter the archiving object MMW_LOGS. Choose *Write*.

Archive Administration: Initial Screen

Archiving Object

Actions

- Write
- Schedule Writing
- Read
- StorageSyst.
- Management

In the *Variant* field, enter the name of the variant.

Archive Administration Edit Goto System Help

Archive Administration: Create Archive Files

Log and Traces Archiving

Client

Variant Maintain

User Name

Start Date Not Maintained

Spool Params. Not Maintained

The screenshot shows the SAP Archive Administration: Create Archive Files dialog box. The main window has a menu bar with 'Archive Administration', 'Edit', 'Goto', 'System', and 'Help'. Below the menu bar is a toolbar with various icons. The title bar reads 'Archive Administration: Create Archive Files'. The main area contains several tabs: 'Archive Directory', 'Customizing', 'Management', 'Database Tables', and 'Information System'. The 'Archive Directory' tab is active, showing a 'Log and Traces Archiving' section. This section includes a 'Client' field with the value '000', a 'Variant' field with the value 'BI*', and a 'Maintain' button. Below this is a 'Use' field with the path 'ABAP: Variant Directory of Program SMMW_WRITE_LOGS_ARCH'. A pop-up window titled 'Variant catalog for program SMMW_WRITE_LOGS_ARCHIVES' is displayed, showing a table of variants. The table has two columns: 'Variant name' and 'Short description'. The variant 'BI_NOV9/12' is highlighted in yellow and has the description 'Backend Intergration archiving'. Other variants listed include '1 AA UND 1 LH', '4OBJ', 'AA 17 VOLLPRG', 'EM_TEST', 'GB_TEST', 'HK_TEST', and 'IW_1'. At the bottom of the pop-up window are 'OK' and 'Cancel' buttons.

Archive Administration Edit Goto System Help

Archive Administration: Create Archive Files

Archive Directory Customizing Management Database Tables Information System

Log and Traces Archiving

Client 000

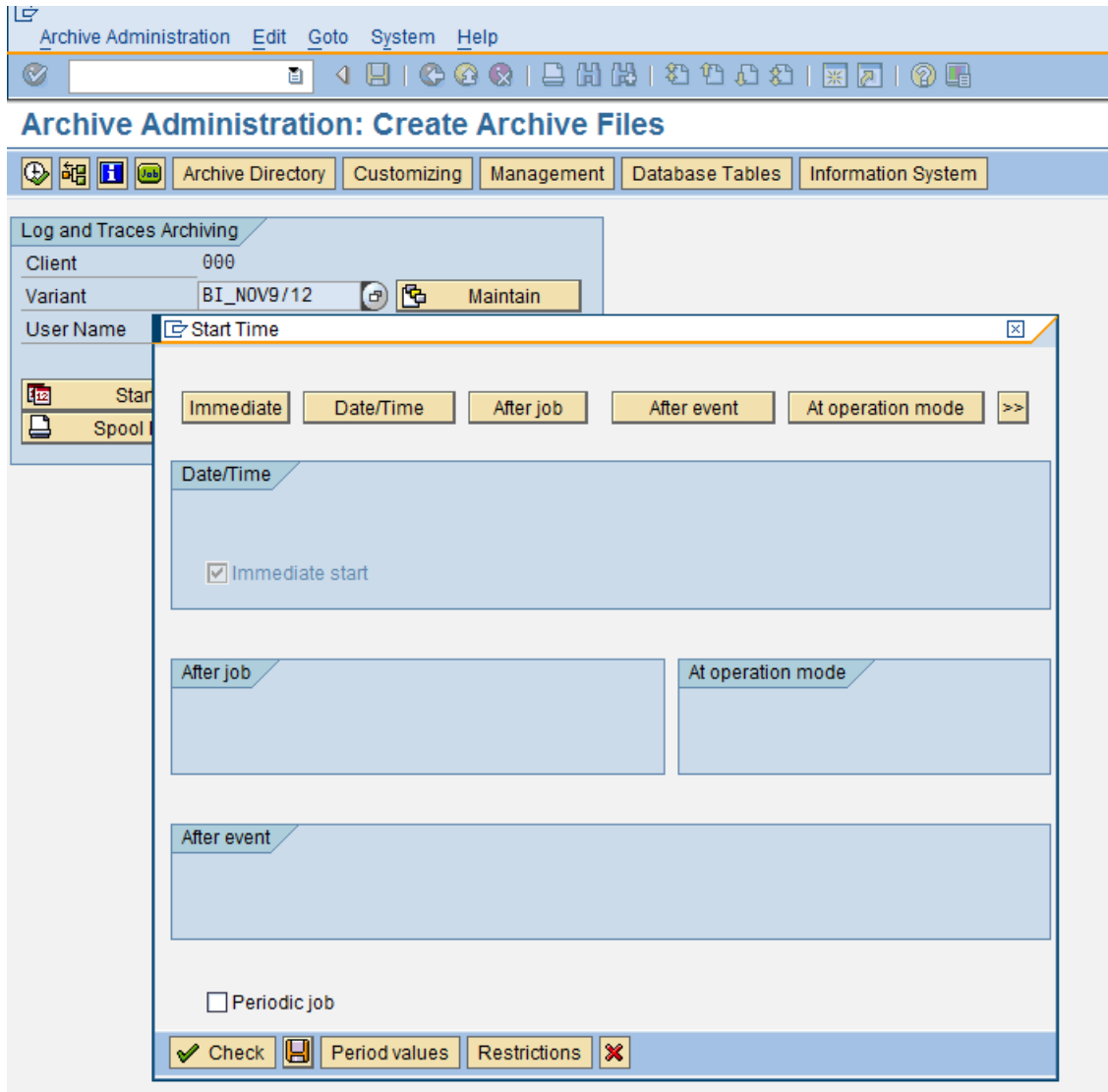
Variant BI* Maintain

Use ABAP: Variant Directory of Program SMMW_WRITE_LOGS_ARCH

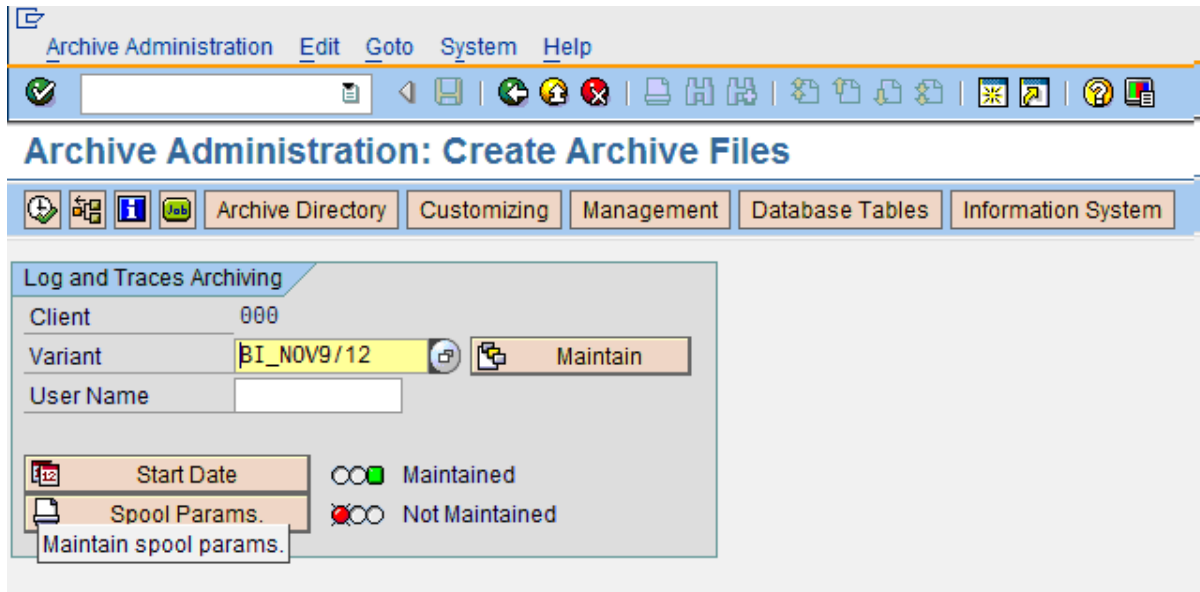
Variant catalog for program SMMW_WRITE_LOGS_ARCHIVES

Variant name	Short description
1 AA UND 1 LH	
4OBJ	
AA 17 VOLLPRG	
BI_NOV9/12	Backend Intergration archiving
EM_TEST	
GB_TEST	
HK_TEST	
IW_1	

Choose *Start Date*.



Choose *Pool Parameters*.



Enter the output device details and choose *Continue*.

Archive Administration Edit Goto System Help

Archive Administration: Create Archive Files

Archive Directory Customizing Management Database Tables Information System

Log and Traces Archiving

Client 000

Variant BI_NOV9/12 Maintain

User Name

Start Date OO Maintained

Spool Params. OO Maintained

Choose *Execute*.

Job Overview

Click on Job overview to view the Job details and logs.

Job Overview

Job	Job Count	Ln	Job Created...	Status	Start date	Start time	Duration(sec.)	Delay (se...)	Executing server
ARV_MMW_LOGS_SUB20091112091323	09132300			Finished	12.11.2009	09:13:23	0	0	bccmain_BCE_00
ARV_MMW_LOGS_WRI20091112091323	09132300			Finished	12.11.2009	09:13:23	2	0	bccmain_BCE_00
							2	0	

Job log overview for job: ARV_MMW_LOGS_WRI20091112091323 / 09132300

Job log	Job log	Message text uncoded	Message Class	Msg.no.	Msg.typ
12.11.2009	09:13:23	Job started	00	516	S
12.11.2009	09:13:23	Step 001 started (program SMMW_WRITE_LOGS_ARCHIVES, variant BI_NOV9/12, user ID)	00	550	S
12.11.2009	09:13:24	Archiving session 023644 is being created	BA	276	S
12.11.2009	09:13:25	Path:	BA	160	S
12.11.2009	09:13:25	Name for new archive file: BC_MMW_LOGS_20091112_091325_0.ARCHIVE	BA	137	S
12.11.2009	09:13:25	2 % (1 of 35) of the logs processed	PROGRESS_INDICATOR	000	S
12.11.2009	09:13:25	100 % (35 of 35) of the logs processed	PROGRESS_INDICATOR	000	S
12.11.2009	09:13:25	Job finished	00	517	S

Delete Logs and Traces

After you have archived data from the log and trace tables, you must delete this data from these tables. This allows you to reduce the size of the log and trace tables.

Define Variant for Delete program.

- Two options are provided here: Test Mode, which simulates the deletion program and Production Mode which actually deletes the program.

Archive Deletion

Processing Options

Test Mode

Production Mode

Delete Logs and Traces

Variant Attributes

Copy Screen Assignment

Variant Name: DEL_PROD

Meaning: Delete Archive session

Only for Background Processing
 Protect Variant
 Only Display in Catalog
 System Variant (Automatic Transport)

Screen Assignm.

Created	Selection Scms
<input checked="" type="checkbox"/>	1000

Objects for selection screen

Selection Scms	Field name	Type	Protect field	Hide field	Hide field 'BIS'	Save field without values	Switch GPA off	Required field	Selection variable	Option	Name of Variable (Input Only Using F4)
1.000	Test Mode	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
1.000	Production Mode	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

- Log on to the SAP NetWeaver AS and start transaction SARA. In the Archiving Object field, enter **MMW_LOGS**. Choose *Delete*.

Archive Administration: Initial Screen

Logs Customizing Database Tables Information System Statistics ILM Browser Check/Delete

Archiving Object: MMW_LOGS Log and Traces Archiving

Actions

- Write
- Delete
- Schedule deletion
- StorageSyst.
- Management

- Choose *Archive Selection* as shown in the snapshot below

Archive Administration: Execute Delete Program

Log and Traces Archiving

Client 000

User Name

Test Mode

Archive Selection ● Not Maintained

Select Archive Files ▲ Preset


Spool Parameters ▲ Preset

- Select the files that have been archived and choose Continue.

Archive Administration: Select Files for Delete Program

Archiving Object MMW_LOGS

Sessions and Files	Date	File Status	Note
<input checked="" type="checkbox"/> 023644	12.11.2009		Backend Integration Archive Nov
<input checked="" type="checkbox"/> 023644-001MI		Write Co...	

- Choose the Start Date and choose Save.
- Choose the Spool Parameters and enter the output device details and choose Continue.
- Choose  Execute.

Job Overview

Go to the Job overview to view the status of the job and the logs.

Job Overview

Job	Job Count	Ln	Job CreatedBy	Status	Start date	Start time	Duration(sec.)	Delay (sec.)	Executing server
ARV_MMW_LOGS_SUB20091112091323	09132300			Finished	12.11.2009	09:13:23	0	0	bcemain_BCE_00
ARV_MMW_LOGS_WRI20091112091323	09132300			Finished			2	0	bcemain_BCE_00
ARV_MMW_LOGS_DEL20091112092501	09250100			Active		09:25:01	2	0	bcemain_BCE_00
							4	0	

Job log overview for job: ARV_MMW_LOGS_DEL20091112092501 / 09250100

Job log	Job log	Message text unencoded	Message Class	Msg.no.	Msg.typ
12.11.2009	09:25:01	Job started	00	516	S
12.11.2009	09:25:01	Step 001 started (program SMMW_DELETE_LOG_ARCHIVES, variant SAP&PROD, user ID)	00	550	S
12.11.2009	09:25:01	Archive file 023644-001MMW_LOGS is being verified	BA	238	S
12.11.2009	09:25:02	Archive file 023644-001MMW_LOGS is being processed	BA	165	S
12.11.2009	09:25:03	0 % (0 of 35) of the logs processed	PROGRESS_INDICATOR	000	S
12.11.2009	09:25:04	100 % (35 of 35) of the logs processed	PROGRESS_INDICATOR	000	S
12.11.2009	09:25:04	Job finished	00	517	S

Viewing Archived files

A Read program is also available which enables the administrator to view the archived entries. The already archived files are displayed for user selection, which can be selected and details of the archived data can be viewed as a report.

Message Store Archiving

- ❏ Similarly, for archiving the message store tables, a write program for message store archiving exists. The Archiving object name for message store is **MMW_MSGS**.
- ❏ The Transaction for the write program for archiving message store data is **SDOE_WRITEMSG**.
- ❏ The Transaction for the Delete program for archiving message store data is **SDOE_DELETEMSG**.

Related Content

[Link to SAP Help Documentation](#)

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

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