

ARCHIVING OF IDOCS IN SAP

Summary

Archiving is the process of offloading data in SAP documents to a file at the Operating system layer for future retrieval and optionally delete the documents from the SAP system. The important point here is future retrieval. SAP provides a workbench for archiving objects and later retrieving objects from the archives.

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Archiving of Idocs in SAP

Archiving is the process of offloading data in SAP documents to a file at the Operating system layer for future retrieval and optionally deleting the documents from the SAP system. The important point here is future retrieval. SAP provides a workbench for archiving objects and later retrieving objects from the archives.

Reasons for Archiving

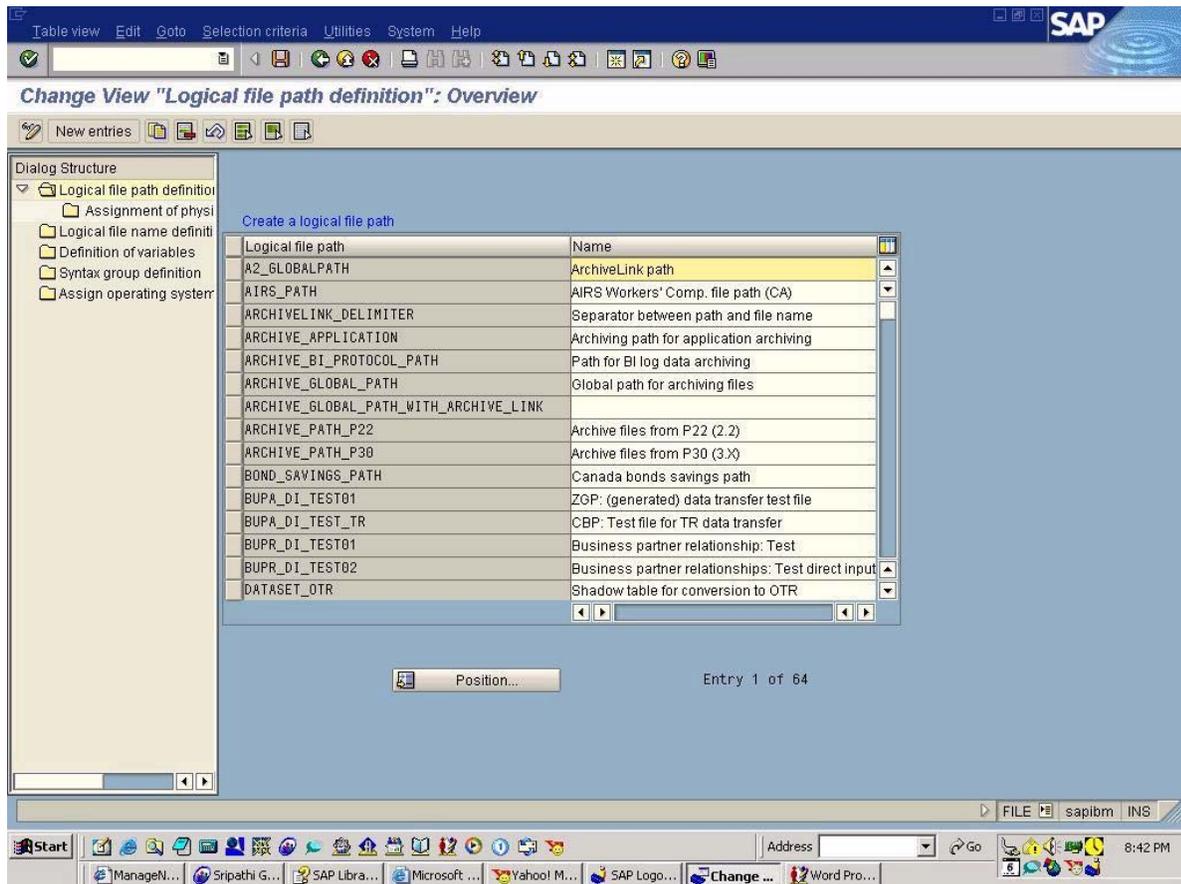
The major reasons for archiving is to improve performance, But archiving also helps to reclaim diskspace that otherwise would be taken up by obsolete documents (Idocs and workitems, in this case)

Basic Settings For Archiving:

Follow these 2 steps before you start archiving:

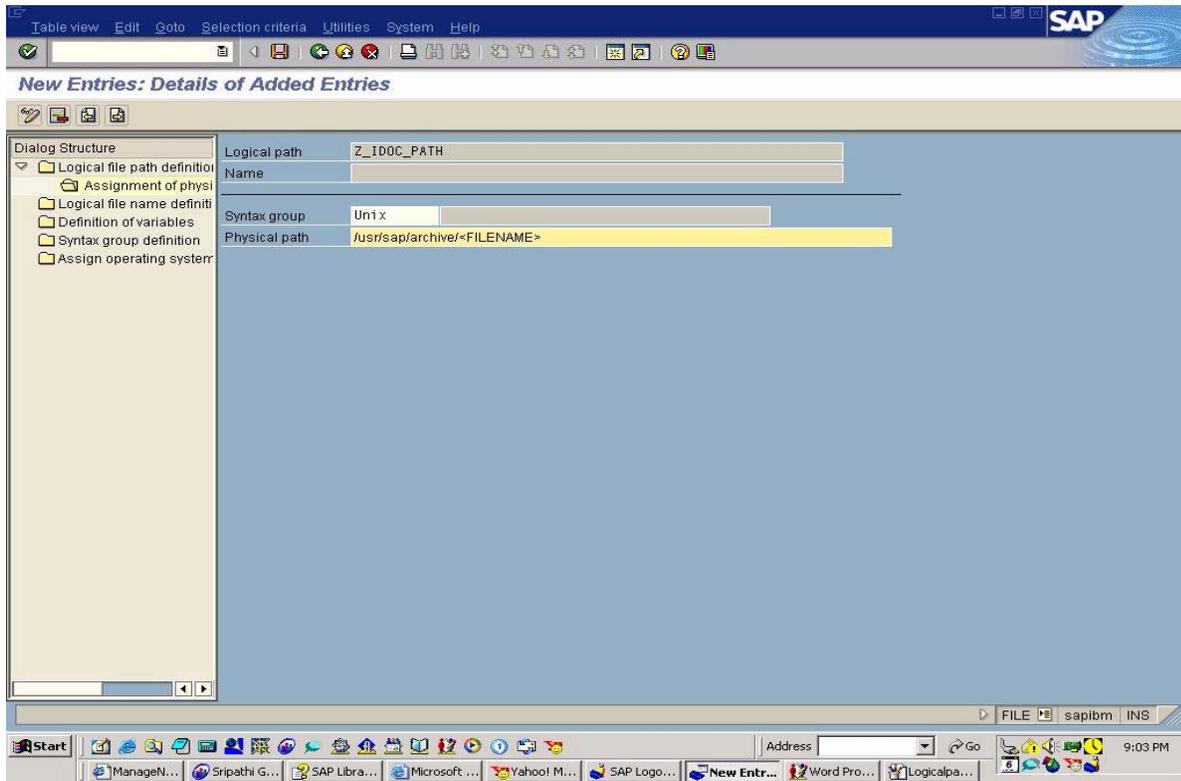
Maintaining Logical path names and physical path

Execute transaction FILE , This displays the paths that exist in the system as shown in the screen shot.



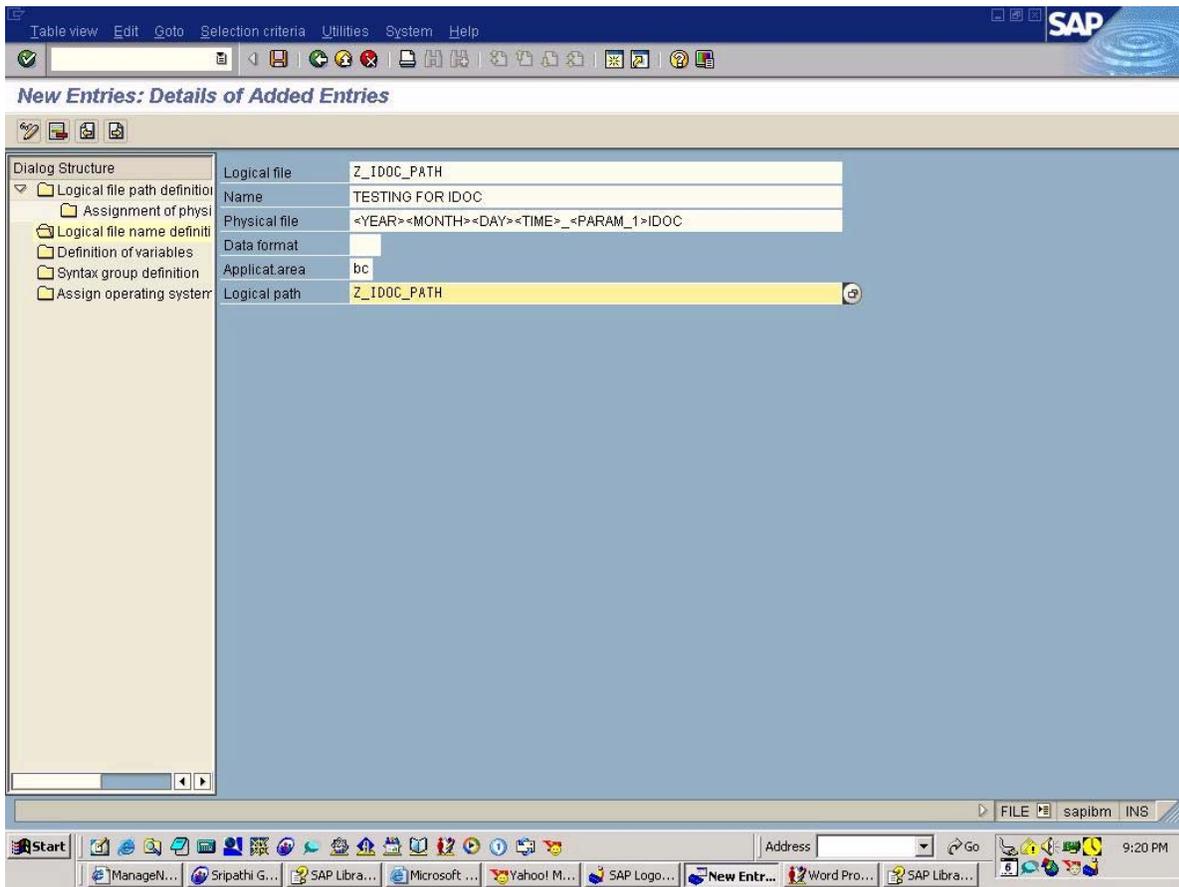
Assign a logical name for the path click the new entries button and give a name stating With Z to represent the path.

To assign physical path. Select the Z logical path created in the previous step and double Click on assignment of physical paths on the left side of the screen. Click on new entries you Will get the screen where you enter syntax group as Unix(You can choose what ever appropriate For you).Enter physical path and end it with < FILENAME>, as shown in the screen shot.



Maintaining File Names

After you maintain logical path name for the archive file you maintain a logical name for the archive file. Double click on logical file name definition on the left side of the screen.You will get all the logical filenames Click the new entries button .Enter values in the field as shown in attachment filename.jpg.The filename contains substitution parameters,Which are represented in angle brackets in the screen shot.



Basic Requirement For Archiving

You can not archive Idocs arbitrarily. An idoc status indicates whether it is suitable for archiving. It make sense if you want to archive Idoc with status code 53(Idoc that has been posted sucessfully),But it does not Make sense to archive Idoc with status code 64(Idoc that has not been processed yet).The list of status code which can be processed for archiving we can get it from table STACUST

Overview of Archiving Module

You can archive Idocs in SAP in two ways.

Using Programs for archiving.

Using Transaction SARA

The functions of SAP archiving process are as follows.

Archiving Data : This is implemented in 2 step process .In 1st step we will be documents such as Idocs workitem and purchase orders are offloaded to an archive file at the OS layers. The second step will be reading the archive file and objects are deleted from the system.This Ensures that the objects are not deleted until it has been archived sucessfully to a file.

Program Used for Archiving :

Program Name: RSEXARCA

Short text

Archiving program for IDocs

The archiving program selects IDocs for archiving and writes them to an archive. You can subsequently delete the archived IDocs with a separate program.

Using the various selection parameters you can select specific IDocs for archiving. Note here the difference between the last status change and the date of IDoc creation. The IDoc number is also important.

The archiving program selects sufficient IDocs for the selection parameters, and archives them using the function module EDI_ARCHIVE_IDOCS. After archiving, the system displays statistics regarding the IDocs that have actually been archived.

There can also be IDocs in the selection table with the status that does not allow archiving. In status maintenance you set which statuses are archivable and which are not. This is the case in the standard system.

Note

Only use the archiving program if the IDocs were not activated through the application. You must make sure that no IDocs are activated that still might be needed by the application.

Output

A log is generated in which the most important fields from the control records of the archived IDocs are located. It also outputs the number of archived IDocs.

- o Direction
- o IDoc number

The archiving program compiles the list of IDoc numbers which were defined by the selection criteria and passes these to the module 'EDI_ARCHIVE_IDOCS' which then archives the IDocs.

A log is output after archiving listing the IDocs which were actually archived. The selection list can also contain IDocs whose status does not allow archiving. Which status values can be archived and which cannot is currently defined explicitly by the FORM routine 'INITIALIZE_STATUS_QUALITY' in the function group 'EDIA', the implementation of the archiving class and the archiving program functionality. This ensures that IDocs with status values intended for further processing are not archived.

Caution:

Only use this archiving program for IDocs if the IDocs are not archived by the application. You need to ensure that IDocs are not archived which may still be required by the application.

Analysing Data stored in archives : After the archiving the data .You can analyse the archived Data and obtain the details on objects stored in the archive file.

Program Used for reading data

Program Name: RSEXARCR

Short text

IDoc Archive Read Program

Description

The read program is intended for evaluating archived IDocs. An intermediate document (IDoc) archive is read using the archive interface. This only accesses the control records and the link information stored for the read IDocs. The archive is selected using the file selection of archive administration. The read program returns the following fields of the control record in the log list:

Message type

Message code

Message function

Status

Date and time of last status update

I. Direction

Number

The display also includes whether links to the IDoc have been archived.

Output

A log is generated which contains the most important fields in the control records of the read IDocs. The log also contains the total number of IDocs read.

Reloading Data : Data from archive files can be reloaded into the SAPsystem. This functionality is usually not required. If a need arises the data can be reloaded.The reloaded

Idocs are set to status 35 for Outbound and 71 for inbound.The reloaded Idocs can not be rearchived.

Program used for reloading of Idocs :

Program Name: RSEXARCL

Short text

Reload program IDoc archive

Description

The reload program writes all IDocs of an archive to the system. It also calls module ARCHIVE_RELOAD_OBJECT_DATA . The reloaded IDocs are assigned the new status "reloaded": In outbound processing it is status '35', in inbound procesing '71'. These status values cannot be archived in the standard system. This ensures that IDocs which have been reloaded are not archived again by periodic archiving runs.

Before reloading, the module EDI_IDOC_RELOADABLE is called. This checks:

Whether the current client corresponds to the clients from which the data originates. This prevents data being entered in the wrong client.

Whether an IDoc with this number already exists in the database.

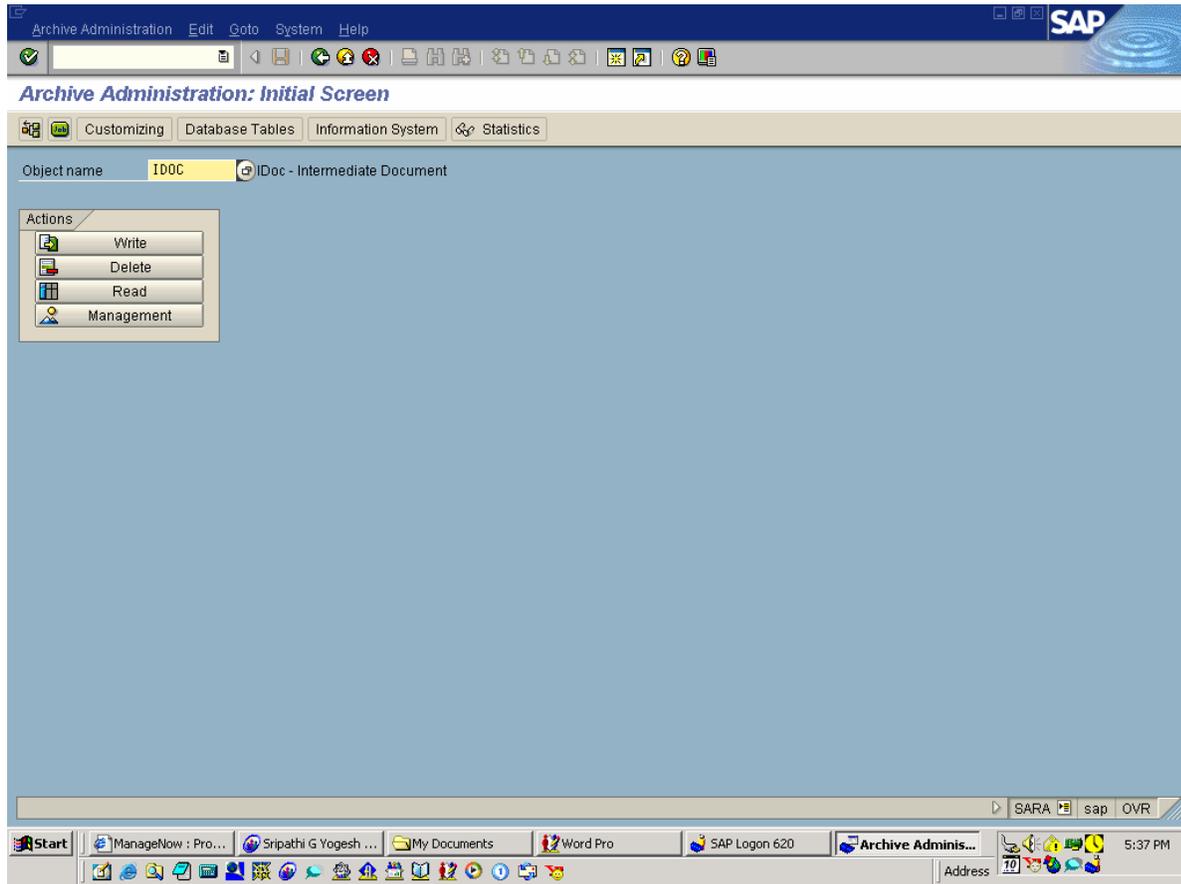
The reload program provided by SAP only flags the IDoc as reloaded in the R/3 database, but not in the archive. It is therefore possible to reload IDocs several times in the R/3 System if you set status '35' or '71' in status maintenance to 'archivable'.

Output

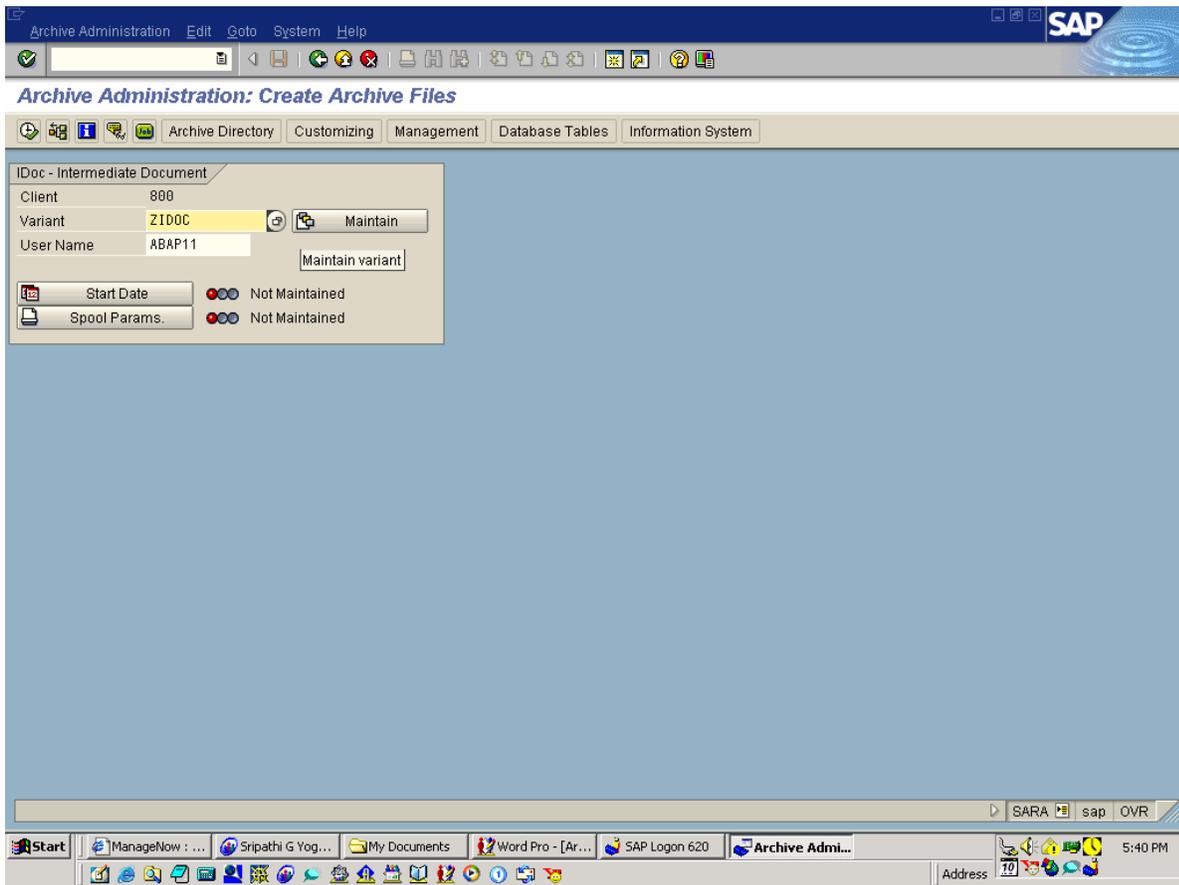
A log is generated, which contains the most important fields in the control records of the IDocs that have been read. The number of IDocs is also produced in the log.

Using transaction SARA for Archiving :

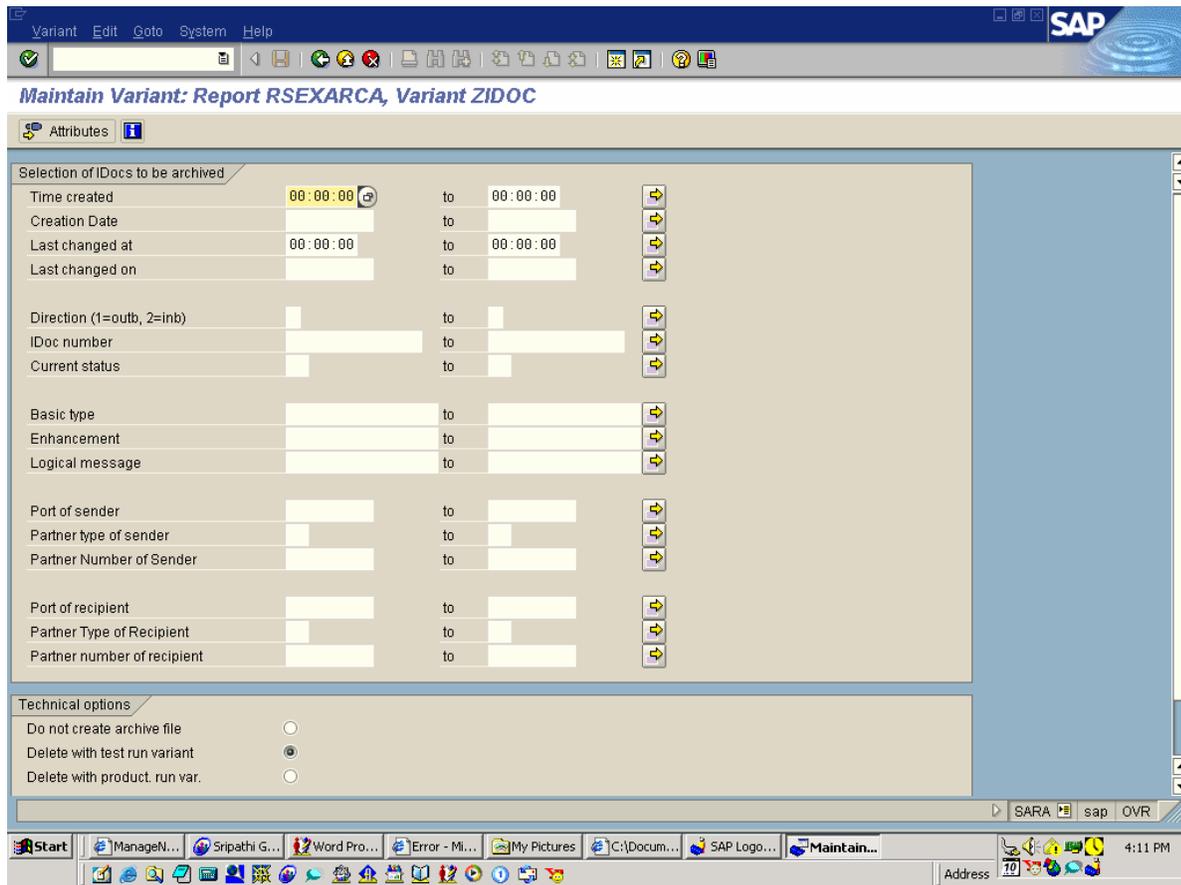
Execute transaction SARA. Enter Idoc in the object name field and press enter. This will give all the options available as shown in the screen shot below.



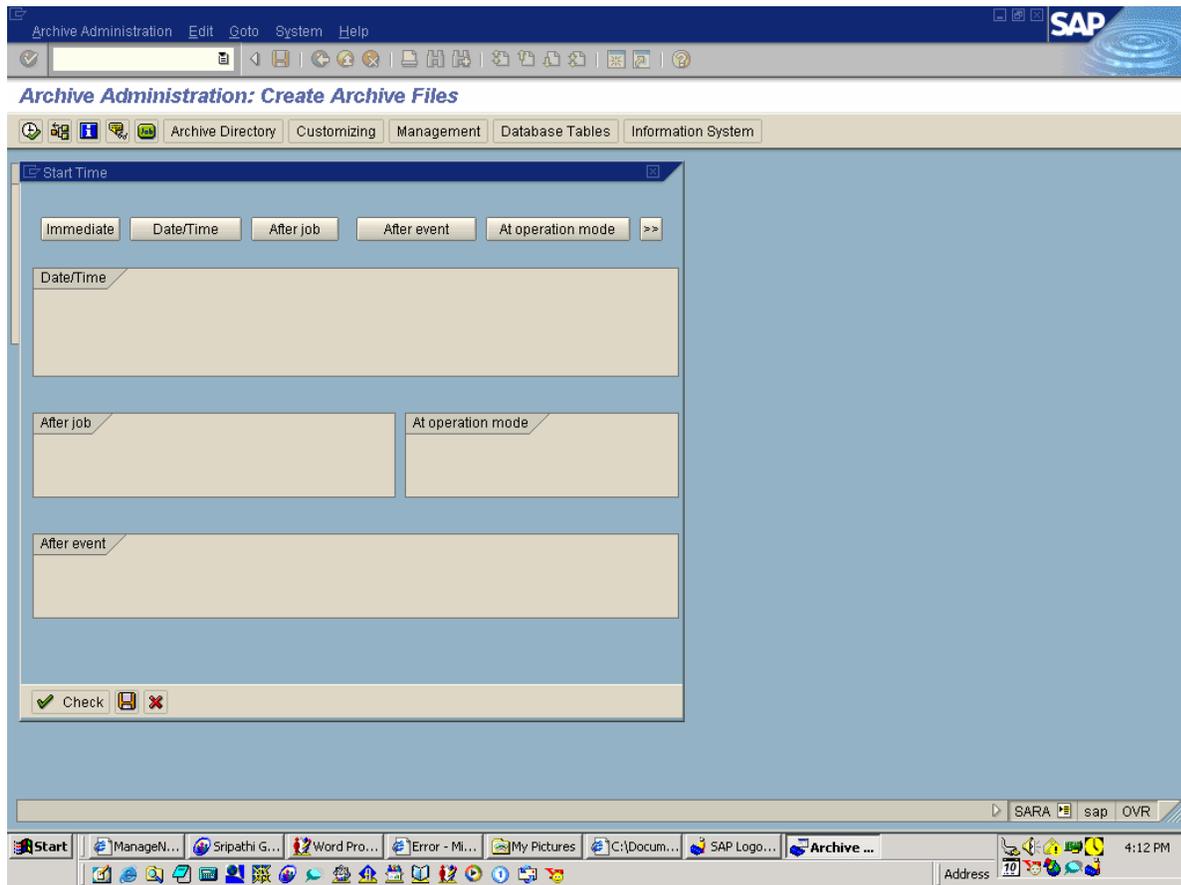
This step sets up a variant for the archiving program. Click the archive button. Enter a variant name and then click the maintain button as in the screen shot below.



You can select the Idocs to be archived based on date ,message type,message code,message function,direction,Idoc Number ranges as shown in the screen shot below.



Now you can specify the start time and spool parameters for the archiving program. Click the



Start time button and enter appropriate values . You can also select to execute the program immediately as shown in the screen shot.

Click on pool parameters that determine where to send the program output. Click the execute button and the system will start archiving the objects.

Similarly you can use the other options like Delete, reload in the initial screen of the SARA

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