

EspArchive

User Manual





READ ME FIRST

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1. Introduction

1.1 Purpose

The **CRONUS.ARCHIVE.SCL** job is a set of programs that archive and remove spooled reports from the Unix/Linux temporary spooling area (\$PRINTTMP). This function also processes reports already in the archive and validates the report expiry dates. Reports with expiry dates equal or greater than the current date will be removed from the archive subsystem.

1.2 Product Overview

Application reports are archived to a predefined file-system (referenced as SUBSYSTEM=ARCHIVE) and compressed to reduce disk space. The archive process should be executed daily using a NO-OF-DAYS parameter to archive reports older than "nn" days. A record is stored on an Adabas file using the key values of the archived report and can be re-spooled using the ESPSOFT JS501 function.



2. Esp Routines

2.1 CRONUS.ARCHIVE.SCL – Archive Reports

The batch SCL should be executed daily using a NO-OF-DAYS parameter to archive reports older than “nn” days. (the parameter is applicable on Step 1 of the SCL)

The report attributes/parameters are stored on an Adabas data-file (file 3006) and can be used to re-spool or view any of the archived reports. During the archive process, reports are deleted from the temporary spooling area (referenced as \$PRINTTMP) but not from the actual print-spooler.

The actual report-data is redirected to a predefined file-system and compressed to reduce disk space using the report key information.

The archive SCL **CRONUS.ARCHIVE.SCL** can be submitted via JS310, EspAuto or using the EspBatch API. The optional NO-OF-DAYS parameter, applicable on program **ESPRARCH**, indicates how many days to remain in spooling area. The default is 0, all reports for the day will be archived. The no-of-days parameter is calculated using the current date – less “nn” days. Reports between these dates are retained in the spooling area.

2.2 Report Header Information

The report header (as defined in JS002, REPORTS) is used by the archive programs. Reports are stored for the retrieval program JS501 using the Report Header at the time of the archive process.

Seq	Jobn	User	Report Title	Form	Pgs	Cps	Printer
0	6897	sag	24-08-08.DEV.ESPMAILD.REP.296.	h.HOLD	592	1	ERRORPRT
1	7307	sag	24-08-08.DEV.ESPMAILD.REP.298.	h.HOLD	592	1	ERRORPRT
2	7864	sag	24-08-08.DEV.ESPMAILD.REP.300.	h.HOLD	592	1	ERRORPRT
3	6597	sag	25-08-08.DEV.ESPMAILD.REP.321.	h.HOLD	592	1	ERRORPRT
4	7607	sag	01-09-08.DEV.ESPMAILD.REP.332.	h.HOLD	592	1	ERRORPRT
5	7874	sag	01-09-08.DEV.ESPMAILD.REP.333.	h.HOLD	592	1	ERRORPRT

2.2.1 Parameters for the ESPRARCH program. (Step 1 of SCL)

NO-OF-DAYS → N3 (archive reports older than nn using today’s date)



2.2.2 Location of Archived Reports

The physical disk location of the archived reports is derived from the **JS002** sub-system **ARCHIVE**. The ARCHIVE sub-system is used throughout the ARCHIVE function and should be setup prior to execution, the administrator should also ensure that the directory has the necessary write permissions. (we recommend **775**)

SUBSYSTEM is the location of datasets as defined in **EspBatch** function **JS002**.

The default path location for SUBSYSTEM ARCHIVE is under the Cronus installation structure and can be modified to any file-system of choice.

Default Path location: **\$CRONUS/data/wf/<env-name>/espspool_archive**

2.3 Execution of CRONUS.ARCHIVE.SCL programs

The programs defined in job **CRONUS.ESPARCH.SCL** should be executed daily; The SCL is not executed automatically and needs to be configured to execute daily either by defining the SCL in EspAuto or by using the EspBatch API.

Execution via EspBatch API

Execute the EspBatch API and request job **CRONUS.ESPARCH.SCL**

Execution from online-to-batch JS310

JSP310 submit the **CRONUS.ARCHIVE.SCL** program in batch.

Execution via EspAuto

Define job **CRONUS.ARCHIVE.SCL** as job in EspAuto.

2.4 Example Archived Report

The reports are archived to the predefined subsystem **ARCHIVE** (full path is expanded on Unix/Linux file-systems at runtime), for reports generated by EspBatch, the EspBatch BATID and RUNID is used to format the archive report name. For online reports, the operating system process number (PID) is used.

Example archived report:

/spool/espspool_archive/dev/2010/11/01/DEV.8739.3861.sag.cfg.02.01

/spool/espspool_archive/dev/2010/11/01/DEV.8739.3861.sag.prn.02.01.Z

Where **/spool/espspool_archive/dev** is the location on disk – derived from the **ARCHIVE** subsystem as defined in JS002.

Where **/spool/espspool_archive/dev/2010/11/01** are subdirectories for the **YEAR**, **MONTH** and the **DAY** the reports were archived. The subdirectories are automatically created.

Where **DEV.8739.3861.sag.cfg.02.01** is the configuration file with report attributes.

Where **DEV.8739.3861.sag.prn.02.01.Z** is the report data in Unix/Linux compressed format.



2.5 Respool of Archived Report

The function JS501 is used to respool or view archived reports.

```

Cronus SUN U25
File Edit Options Send Receive Window Help

MAP901          *** Cronus Consulting - DEV *** U711          08:54:01.4
MAM901          - Real Time System Menu -                    2010/11/22

CC      EspControl - Change Control System (I.S.R)
JS      EspBatch  - Job Scheduler
MA      EspMen    Archived Reports

1. User, Report Name & Inv Date
2. User, Inv Date & Report Name
3. Printer, Inv Date & Report Name
4. Inv Date, User ID & Report Name

Sort Order: _

*** End of Data ***

Printer.: PRINTER1                               User: MENUADM
Function: JS501___ Data: _____ Term: pts/6
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Quit

ANSI TCP/IP 09:41 0000

```

Select in which format you would like to display the archived report information.

1. User, Report Name & Inv Date

The reports are listed in User Name, Report Name and Inverted Date sequence.

2. User, Inv Date & Report Name

The reports are listed in User Name, Inverted Date and Report Name sequence.

3. Printer, Inv Date & Report Name

The reports are listed in Printer Name, Inverted Date and Report Name sequence.

4. Inv Date, User ID & Report Name

The reports are listed in Inverted Date, User Name and Report Name sequence.



Selecting an archive Report:

The following options are available for each of the archived reports listed.

- P View Archive Parameters
- R Respool Report
- V View Report

Option R - Respool archived report

```

Cronus SUN U25
File Edit Options Send Receive Window Help

JSP50101          *** Cronus Consulting - DEV *** U711          09:00:43.8
JSM50101          Archived Reports by User, Report Name & Inv Date        2010/11/22

  User ID  Report Name Formatted  Rep Date  Pages  Rep  Dist  Printer
R cronus   D.20101104.REP01      20101104   1   01   01  PRINTER1
_ cronus   D.20101104.REP01      20101104   1   01   01  PRINTER1
_ cronus   D.20101104.SCAN_SCL    20101104   1   01   01  PRINTER1

Resubmit/View Report

CFG Number...: 6394

Report Name.: REP01

Press <ENTER> to Confirm - PF3 to Abort

*** End of Data ***

Restart at User ID: _____ Report: _____ Date: _____
Filter on User ID: cronus__ Report: _____ Date: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Quit
ANSI TCP/IP 09:48 0000

```

Re-spool confirmation:

A confirmation message is displayed and status messages displayed once the report has been successfully respooled.

Job CFG No: 6394 Successfully Processed



Option P – Report Parameters for archived report

```

Cronus SUN U25
File Edit Options Send Receive Window Help

Archive Parameters
SCL User:          SCL Name:          SCL Type.:          Batch No: 6394
Program.:         Rep No.: 01          Dist Copy: 01       Run ID.: 6394

Spool Command.....: /usr/local/bin/suspr
Spool Directory....: /apps/sag/cronus/data/spool_tmp
CFG Name.....: DEV.6394.6394.cronus.cfg.01.01
Print File.....: DEV.6394.6394.cronus.prn.01.01
Report Name.....: REP01
Formatted Name.....: D.20101104.REP01
Printer ID.....: PRINTER1 Disposition: -q          Label..:
Form Definition....: default. Copies.....: 1          Class..: A
Page Definition....: pdef          Line Count.:          Chars..:
Environment.....: DEV          Sub User ID:          User ID: cronus
Retain - Not Printed: 144          Report Date: 20101104 PRMODE.:
Retain - Printed....: 48          Purge Date.: 20110202 FCB....:
Archive Days.....: 90          Report Size: 1
Email Address.....: no_email
Additional Parm....:

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Quit PgDn
ANSI TCP/IP 09:49 0000
  
```

Report Parameters:

The report parameters are displayed; important information such as the **Report Date**” (date the report was created) and **“Purge Date**” (date the report will be deleted) are also displayed.

This information cannot be modified.



Option V – View archived report

The archived report is automatically uncompressed in the operating system directory and displayed using the Unix/Linux default 'more' command.

```

Cronus SUN U25
File Edit Options Send Receive Window Help

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
JSP315          EspSoft - EspBatch          Date: 20101104
                Import/Export SCL's        Page: 1

SCL User   SCL Name   SCL Type   Action
-----
CRONUS    ESPDSCP1   SCL        >> Exported
CRONUS    ESPDSCPY   SCL        >> Exported
CRONUS    ESPDSPRM   SCL        >> Exported
CRONUS    ESPDSPRT   SCL        >> Exported
CRONUS    ESPDSREN   SCL        >> Exported
CRONUS    ESPDSRTM   SCL        >> Exported
CRONUS    ESPDSTST   SCL        >> Exported
CRONUS    ESPGDG     SCL        >> Exported

*** End of Report ***
/spool/spd_archive/dev/2010/11/04/DEV.6394.6394.cronus.prn.01.01 (END)
ANSI TCP/IP 09:53 0000
  
```



2.6 Error Messages and Codes

The job **CRONUS.ARCHIVE.SCL** automatically creates the **YEAR**, **MONTH** and **DAY** subdirectories but will terminate if the Unix/Linux permissions do not allow the user to create these.

A message is written to the spooler:

Example

ERROR CREATING DIRECTORY [/spool/espspool_archive/2010/11/09](#)

ESPERR 0012 – Invalid Sub-system supplied.

Validate the ARCHIVE path definition for the SUBSYSTEM in JS002