Arkc Command Line Interface Manual

July 2000

Content

1. ARKC, WHAT IS IT?

Arkc is the Arkeia command line interface. It is used to administrate the Arkeia backup server through an intuitive utility. The arkc tool reproduces most of the operations allowed using the arkeia GUI. Like the other Arkeia modules, the arkc architecture is client/server based and it could be installed on a remote machine.

2. DOWNLOAD, INSTALL AND CONFIGURE ARKC?

2.1 Download and Install the Arkc Package

Download the arkc package from the arkeia web site:

http://www.arkeia.com/downloadfull.html

Depending on the choosen system, the package is a tar gziped file or an rpm. If you have an arkeia CD-Rom, browse its content looking for all the available arkc packages. However, you will find on the arkeia web site **http://www.arkeia.com/** latest versions. To proceed with the installation itself, please, choose the appropriate section and follow the instructions:

Targz package:

```
linux:># su
linux:># tar zxvf arkc-4.x.x-x.tar.gz
linux:># cd arkc-4.x.x-x
linux:># ./install
```

rpm package:

```
linux:># su
linux:># rpm -Uvh arkeia-arkc-4.x.x.-x.i386.rpm
```

NB: If you are upgrading arkc, the same procedure must be used.

2.2 Which Files Should I Get in the Arkc Directory?

The ARKC installation adds the following files or scripts under the system directory and Arkeia home directory (i.e /usr/knox).

/usr/bin/arkc
/usr/knox/bin/arkc
/usr/knox/arkc/
/usr/knox/arkc/README
/usr/knox/arkc/NEWS
/usr/knox/arkc/FAQ
/usr/knox/arkc/arkc.prf
/usr/knox/arkc/arkc.param
/usr/knox/arkc/arkc.sample
/usr/knox/arkc/script

The NEWS file informs about new features and fixed bugs between versions. The README file is an updated file explaining new installation and/or configuration settings. The FAQ contains Quesions/Answers on the Arkc use. 'arkc.param' and 'arkc.prf' files are the configuration files.

2.3 Configure Arkc

To configure the arkc tool, follow the instructions below:

(1). First, check that the arkc binary is correctly installed. If the command '#arkc' fails, you should verify your PATH environment variable content.

(2). Arkc uses special information to open network connections to the Arkeia backup server like the Arkeia GUI does. Therfore, you have to specify the backup server name and the Arkeia login with the password by setting the dedicated fields in the /usr/knox/arkc/arkc.param configuration file. By default, the Arkc configuration is shared by every arkc user. If you want to personalize Arkc by restricting the access to your own configuration, you have to create a preference file in your home directory. Read the '-pref' section in the main Arkc help, *5.1 Arkc Global Help*

(3). At this point, the ARKC configuration is done. You should try few arkc commands.

> (3a). First, we are going to verify that Arkc loads correctly the configuration settings declared in the /usr/knox/arkc/arkc.param file. The following command displays the backup server name, the server version, and the current arkc login.
>
> # arkc -debug -who
>
> (3b). We have to check that Arkc could execute a command on the backup server. The following command displays a list of the existing tapes. If an error occurs, a message is

printed.

arkc -tape -list

(4). How do I really begin with ARKC ?

(4a). The first suggestion is to read carefully the main ARKC help, *5.1 Arkc Global Help*

(4b). Read the FAQ. It contains many Questions/Answers which help you

3. FAQ

You will find the official arkc FAQ at the following place after you have performed the arkc package installation : /usr/knox/arkc/FAQ

4. ARKC COMMANDS INDEX

4.0 Introduction

In this section, you will find all the available commands. The commands are classified by object type.

4.1 On Tapes

Many commands could be executed on the Arkeia tapes. Particularly, you have the ability to manually recycle the tapes. Also, to make easy the ARKC use, you are allowed to apply most of the tape commands on a complete pool content. Notice that the '*-statistics'* command shows the information on free and/or used space status.

Tapes command list:

arkc -tape -create
arkc -tape -delete
arkc -tape -modify
arkc -tape -list
arkc -tape -type
arkc -tape -recycle
arkc -tape -statistics

4.2 On Pools

To create a tape by attaching it to a pool, you must create the pool first, then the tapes, using the tape creation command, '-tape -create' (see *4.1 On Tapes*).

Pool commands list:

arkc -pool -create
arkc -pool -delete
arkc -pool -list

4.3 On Savepacks

To create a complete new savepack, you must create the savepack first, then include the savepack trees, using the '*-modify'* command.

Savepack commands list:

arkc -savepack -create
arkc -savepack -delete
arkc -savepack -modify
arkc -savepack -list

4.4 On Drives

The '*-write'* command writes an Arkeia label manually on a tape.

Drive commands list:

arkc -drive -create
arkc -drive -delete
arkc -drive -modify
arkc -drive -list
arkc -drive -type
arkc -drive -read
arkc -drive -write

4.5 On Drivepacks

Drivepack commands list:

arkc -drivepack -create
arkc -drivepack -delete
arkc -drivepack -modify
arkc -drivepack -list

4.6 On Libraries

The '*-load*' ('*-unload*') command loads (respectively unloads) a tape from (to) a library slot to(from) an attached tape drive.

Library commands list:

arkc -library -create
arkc -library -delete
arkc -library -modify
arkc -library -list
arkc -library -type
arkc -library -start
arkc -library -stop
arkc -library -settape
arkc -library -unsettape
arkc -library -attach
arkc -library -detach
arkc -library -drvlist
arkc -library -load
arkc -library -unload

4.7 On Backups

The '*-connect*' command allows several operations on a running backup, for example, to stop a running backup. To get more details on this topic, consult the Arkc FAQ. Several examples of use are given

Backup commands list:

arkc -backup -start
arkc -backup -connect
arkc -backup -status
arkc -backup -running
arkc -backup -done
arkc -backup -tag

4.8 On Restores

The '*-connect*' command allows several operations on a running restore, like to stop a restore. To get more details on this topic, consult the Arkc FAQ. Several examples of use are given

Restore commands list:

```
arkc -restore -start
arkc -restore -connect
arkc -restore -status
arkc -restore -running
```

4.9 On Journals

Journal commands list:

```
arkc -journal -all
arkc -journal -jtape
arkc -journal -jdrive
arkc -journal -jrestore
arkc -journal -jbackup
```

4.10 On Files

File commands list:

```
arkc -file -list
arkc -file -where
```

4.11 On Users

User commands list:

```
arkc -user -create
arkc -user -delete
arkc -user -modify
arkc -user -list
arkc -user -role
```

4.12 On Object Backups

A backup using the object mode is a backup based on a *'push'* approach, started on the client side.

arkc -bkpobj -start

4.13 On Object Restores

arkc -rstobj -start

5 ARKC HELP

5.0 Introduction

In this section, you will find help screens for each available command. You will get the same result by using the online help option '-usage'.

5.1 Arkc Global Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -<object> -<action>

DESCRIPTION

Arkc is the Arkeia command line interface. It is used to administrate the Arkeia backup server throught an intuitive command line utility. The current help describes the global syntax of use. If you are a new ARKC user, you should look at the arkc README file to get all the installation/configuration information(see $(KNOXDIR)/arkc/README).

Each arkc command is based on a pair of words. Their order in the command line is useless. object is the Arkeia entity which is involved in the operation. action is the executed operation (i.e: 'arkc -backup -start', where backup is the object and start the action).

Objects list
tape, pool, savepack, drive, drivepack, library, backup, restore, journal, file, user, bkpobj, rstobj, debug

Actions list
Each object has its own allowed actions list. To display a specific object help try: arkc -usage -<object> (i.e : arkc -usage -backup)

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

Input options

In general, a command requests one or many parameters. A parameter is set as follow parameter=value. The parameters could be set directly in the command line (-D), or using a parameters file (-I) or parsing the standard input (-). All the parameters, requested or optional, are described in the [PARAMETERS LIST] section of the online help for each defined command. Only one of the following options can be used.

-D This option precedes the parameters list. Each parameter must be set using the syntax <parameter>=<value>. 'PARAMETER' is the parameter name and 'VALUE' is the parameter value. You have to set as many parameters as it is needed. Therefore, the syntax is: arkc -<object> -<action> -D param1=value1 param2=value2 .... If you look for the allowed values for a specific parameter, you should consult the online help, or try: arkc -getinfo -<object> -<action> -property <parameter> .

-I This option is used to set an input parameters file. An input parameters file contains parameters with the same syntax described previously (-D). The syntax is: arkc -<action> -<object> -I<inputfile>. In the online help of the tape creation command ("#arkc -usage -tape -create"), an example shows an input parameters file use.

- The standard input is used to set the parameters list.

Output options

An ARKC command exits with a defined value and, sometimes, it displays formated information using the standard output. However, the command line allows to pipe the output to a defined file using -O option. Moreover, you are able to select the information which is printed, via the -F option. To get the available filters, consult the [FILTERS] section of the command online help.

-O This option precedes the output file name used as recipient of the command output. The syntax is : arkc -<object> -<action> -O<outputfile>.

-F This option specifies information to display. The syntax is : arkc -<object> -

<action> -F<filter>. To get all the allowed filters, see the online help command. You must use the -F option for each selected filter. In the EXAMPLES section, an example shows how to use the filters.

Help option

You are lost, need help :-). You are in the right section ! Many helpfull options to understand the arkc syntax. Don't forget to look at the README file for installation/configuration information (see $(KNOXDIR)/arkc/README)

-usage This option displays an ARKC online help. In general, this option is used for a specific command online help. As example, to get the allowed actions associated to the 'tape' object, you have to try the following command: arkc -usage -tape

-help Similar to the -usage option.

-getinfo This option gives information on parameters and associated values for a specific command. To diplay the allowed parameters list, try arkc -getinfo -<object> -<action> . To get the authorized values for a given parameter, try arkc -getinfo -<object> -<action> -property <parameter>

-property See -getinfo option.

-pref The preference file defines the arkeia backup server, the login and the password needed to establish a connection to the server. The loaded file is, in the following order, the file sets with -pref option in the command line, the $(HOMEDIR)/.arkc/arkc.param in the home directory and the global preference file $(KNOXDIR)/arkc/arkc.param. If you want to use a temporary preference file, try : arkc -pref <filename> -<object> -<action>. If you don't know which preference file arkc is currently using, try 'arkc -debug -who'

-validate This option allows to simulate a command without really executing the operation. It is usefull, for example, if you don't really want to create a tape, but just to check your syntax.

-verbose Use this option to display all the requests exchanged with the backup server, including some hidden transactions.

-moreinfo An arkc command fails and you don't find out any solution. Add the '-moreinfo' option to the command line. Sometimes, it can be helpfull, giving you a precis explanation. Please, add the -moreinfo option just after 'arkc' in the command line (i.e: 'arkc -moreinfo -<object>'). To keep this option as default, you have to define an arkc environment variable ARKC_USE_MOREINFO=1

-noinfo To disable any output message to the output error when an arkc command fails, add the '-noinfo' option to the command line. To keep this option as default, you have to define an arkc environment variable ARKC_USE_NOINFO=1

EXAMPLES

To display the current help,
arkc -usage

To know all the allowed actions on a tape,
arkc -usage -tape

To get the help for the '-tape -list' command,
arkc -usage -tape -list

To retreive all the existing tapes,
arkc -tape -list

To create a DAT 120 tape named TAPE1,
arkc -tape -create -D name=TAPE1 type=DAT-120

For more information: arkc -usage <object>

5.2 Arkc Tape Commands Help

5.2.1 - Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those commands manage tape operations like creation or recycling.

action list:
create, delete, modify, list, type, recycle, statistics.

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS
See the global help

PARAMETERS LIST
Each command has its own parameters list. You should consult the associated online help.
Try, 'arkc -usage -tape -<action>'

EXAMPLES
If you want help for the tape creation
arkc -usage -tape -create

For more information: arkc -usage -tape -<action>

5.2.2 Tape Creation Help

Arkeia command line mode.

SYNOPSIS
arkc [OPTIONS] -tape -create -D [PARAMETERS LIST]

DESCRIPTION
To create one or several tapes.

OPTIONS
See global help

PARAMETERS LIST
name Name of the tape (i.e: name=TAPE1)

type Type of the tape. Try, 'arkc -tape -type' to see allowed values

[OPTIONAL]
plid (or plname)
If you want to put the created tapes in a specific pool. The
'plid' parameter (resp. 'plname') specifies the pool identifier (resp. pool name)

voltag Only for the FILE tape type. You must set the 'voltag' parameter indicating the file path used as virtual tape. In this case, this parameter is NOT OPTIONAL

comment To add a comment

[EXPERT]

firstnum To create several tapes, you just have to specify the first and the last number of the wanted tapes. The firstnum's value could be different than 1. Used values must be integers.

1, 2, 3, ..., n

lastnum (see 'firstnum' parameter)

access To set tape's rights. The default 'access' rights are set to read, write, recycle, delete (ex. access=[WRITE|READ|RECYCLE])

WRITE	write access is enabled
READ	read access is enabled
RECYCLE	recycle right is enabled
DELETE	delete right is enabled
CLEAN	clean access is enabled

recycle_in To set part of the recycling policy. By default, the tape is recyled in its current pool.

SCRATCH_POOL	Recycling pool is scratch pool
CURRENT_POOL	Recycling pool is the tape's pool

recycle_mode To specify part of the recycling policy. It defines the rules used to order the tape recycling operation. By default, the recycle mode is FIFO.

FIFO	Older recycled tape is used for a backup.
LIFO	Newer recycled tape is used for a backup

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a tape named TAPE of type EXB 8500:
arkc -tape -create -D name=TAPE type=[EXB 8500]

To create 5 tapes named TAPE1, TAPE2,...,TAPE5 of type DAT-120
arkc -tape -create -D name=TAPE firstnum=1 lastnum=5 type=DAT-120

To create a DAT 120 tape named TAPE1,
arkc -tape -create -D name=TAPE1 type=DAT-120

The previous example using an input parameters file.
arkc -tape -create -Ifile_contains_parameters_list

File file_contains_parameters_list contains:

```
#
# Arkc example file , (c) 2000 Knox software
#
# File created 2000/03/27
#

name = TAPE1
type = DAT-120
comment = [ new tape creation using command line mode :-) ]

#
# End of the file
#
```

For more information: arkc -getinfo -tape -create -property <parameter>

5.2.3 Delete Tape Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -delete -D [PARAMETERS LIST]

DESCRIPTION

This command removes one or several tapes. To delete several tapes, you could use the 'name' parameter as many times as you need. You could also remove tapes, on a pool basis, using the 'plname' parameter.

OPTIONS

See global help

PARAMETERS LIST

name (or tpid)
Name (resp. identifier) of the tape to delete (ex: name=TAPE01)

[OPTIONAL]
plname (or plid)
Name (resp. identifier) of the pool containing tapes to

delete. All the tapes in the pool are removed.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To remove a tape named TAPE
arkc -tape -delete -D name=TAPE

To remove 5 tapes named TAPE1, TAPE2, ...,TAPE5
arkc -tape -delete -D name=TAPE1 name=TAPE2 ... name=TAPE5
or :-)
arkc -tape -list | grep TAPE | arkc -tape -delete -

For more information: arkc -getinfo -tape -delete -property <parameter>

5.2.4 Tape Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -modify -D [PARAMETERS LIST]

DESCRIPTION

This command modifies tape's settings. To execute this operation on several tapes, you could use the 'name' parameter as many times as you need. You could also select a pool, specifying 'plname' parameter.

OPTIONS

See global help.

PARAMETERS LIST

name (or tpid) Name (resp. identifier) of the tape to modify (ex: name=TAPE01). This parameter could be used repetitively to include several tapes.

[OPTIONAL]
plname (or plid) Name (resp. identifier) of the pool containing the tapes to modify. This parameter replaces the 'name' parameter.

recycle_in To change a part of the recycling policy. By default, a new created tape is recyled in its pool.

SCRATCH_POOL	Recycling pool is scratch pool.
CURRENT_POOL	Recycling pool is the tape's pool.

recycle_mode To specify a part of the recycling policy. It defines the rules used to order tape recycling operations. By default, the recycle mode is FIFO.

FIFO	Older recycled tape is used for a backup.
LIFO	Newer recycled tape is used for a backup

Comment To add or modify a comment.

[EXPERT]

access By default, the tape rights access are set to write, read, recycle and delete. To change the access rights, you have to use 'access' parameter. For example, you want to set the new rights to read, write and recycle then access=[WRITE|READ|RECYCLE]

WRITE	write access is enabled
READ	read access is enabled
RECYCLE	recycle right is enabled
DELETE	delete right is enabled
CLEAN	clean access is enabled

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To set the recycling pool of the tape TAPE
arkc -tape -modify -D name=TAPE recycle_in=SCRATCH_POOL

To set access rights of a tape named TAPE protecting it from new writing
arkc -tape -modify -D name=TAPE access=[~WRITE]

For more information: arkc -getinfo -tape -modify -prop erty <parameter>

5.2.5 List of Tapes Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -list -D [PARAMETERS LIST]

DESCRIPTION

To get a tape's list. If no additional argument is used, the name of all the existing tapes is displayed. Adding a 'name' (or a 'tpid') parameter, all the tape settings are displayed. If the 'plname' (or 'plid') argument is used then the name of all pool's tapes is printed.

OPTIONS

See global help.

PARAMETERS LIST

[OPTIONAL]

name (or plid)
Name (resp. identifier) of the tape(ex: name=TAPE01). You get the tape's settings list.

plname (or plid)
Name (resp. identifier) of the pool. Arkc displays the list of the pool's content.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To list all the existing tapes
arkc -tape -list

To display settings of the tape MyTape
arkc -tape -list -D name=MyTape

For more information: arkc -getinfo -tape -list -property <parameter>

5.2.6 Tape Type Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -type

DESCRIPTION

This command displays all the tape types currently managed by the Arkeia backup server. Arkeia integrates most of the known tape formats including DAT, DLT, AIT, ECRIX, ...

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

5.2.7 Tape Recycling Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -recycle -D [PARAMETERS LIST]

DESCRIPTION

This command performs a manual recycling operation of a tape. To recycle several tapes, you could use 'name' parameter as many times as you need. You may pay attention to the fact that a tape recycling disables the part of the index associated to the data written on the tape. You will not be able to restore files located on the recycled tape.

OPTIONS

See global help

PARAMETERS LIST

name (or tpid)
Name (resp. identifier) of the tape (ex: name=TAPE01). You could use this parameter repetitively to recycle several tapes.

plname (or plid)
Name (resp. identifier) of the pool. All the tapes contained in the pool are recycled.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -tape -recycle -property <parameter>

5.2.8 Statistics on Tapes Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -tape -statistics -D [PARAMETERS LIST]

DESCRIPTION

This command gives statistics on a tape. To get statistics on several tapes, you can use the 'name' parameter as many times as you need. To apply this operation on a pool basis, you have to use the 'plname' parameter.

OPTIONS

See global help.

PARAMETERS LIST

name (or tpid)
Name (resp. identifier) of the tape (ex: name=TAPE01). Many usefull information concerning the tape use, like free space or remaining space, are displayed. If many tapes are specified, Arkc merges tape statistics.

plname (or plid)
Name (resp. identifier) of the pool. Arkc prints tape's
statistics on a pool basis.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To get statistics on the tape 'MyTape'
arkc -tape -statistics -D name=MyTape

To get statistics of the pool 'MyPool'
arkc -tape -statistics -D plname=MyPool

For more information: arkc -getinfo -tape -statistics -property <parameter>

5.3 Arkc Pool Commands Help

5.3.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -pool -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those commands manage pool operations like creation or removing.

action list
create, delete, list

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -pool -<action>'

EXAMPLES

If you want the online help for the pool creation
arkc -usage -pool -create

For more information: arkc -usage -pool -<action>

5.3.2 Pool Creation Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -pool -create -D [PARAMETERS LIST]

DESCRIPTION

To create a new pool.

OPTIONS

See global help

PARAMETERS LIST

name Name of the pool (ex. name=WEEKLY)

[OPTIONAL]

comment To add a comment

[EXPERT]

owner A pool is owned by an arkeia user. By default, the arkc user, who initiates the Arkc session, is the owner. However, you could specify a different arkeia owner.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a pool called WEEKLY
arkc -pool -create -D name=WEEKLY

For more information: arkc -getinfo -pool -create -property <parameter>

5.3.3 Remove Pool Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -pool -delete -D [PARAMETERS LIST]

DESCRIPTION

This command removes an existing pool.

OPTIONS

See global help.

PARAMETERS LIST

name (or plid)

Name (resp. identifier) of the pool (ex: name=WEEKLY). The specified pool is deleted. If the pool is not empty, arkc doesn't perform the pool suppression. Therefore, you have to empty the pool moving or deleting the tapes.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors.

EXAMPLES

To delete the pool 'WEEKLY'

arkc -pool -delete -D name=WEEKLY

For more information: arkc -getinfo -pool -delete -property <parameter>

5.3.4 List of Pool Help

Arkeia command line mode

SYNOPSIS

arkc [OPTIONS] -pool -list -D [PARAMETERS LIST]

DESCRIPTION

To get a pool's list. If no additional argument is used, the name of all the existing pools is displayed. Adding a 'name' (or 'plid') parameter, all the pool settings are printed.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

name (or plid)

Name (resp. identifier) of the pool (ex: name=WEEKLY). You get the pool's settings list

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -pool -list -property <parameter>

5.4 Arkc Savepack Commands Help

5.4.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -savepack -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those commands manage savepack operations

action list
create, delete, modify, list.

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -tape -<action>'

EXAMPLES

If you want the online help for the savepack creation
arkc -usage -savepack -create

For more information: arkc -usage -savepack -<action>

5.4.1 Savepack Creation Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -savepack -create -D [PARAMETERS LIST]

DESCRIPTION

To create a savepack

OPTIONS

See global help.

PARAMETERS LIST

name Name of savepack

[OPTIONAL]
allowed_fs
This parameter shows the file systems you want to back up. You can decide to back up all the file system types setting ALL value. Using NORMAL value, NFS mount are not backed up. By default, allowed_fs parameter is set to NORMAL.

NORMAL
ALL
ALL_EXCEPT_NFS

comment To add a comment

[EXPERT]
retry If the backup of the savepack fails to realize a remote connection to a defined tree, Arkeia retries as many times as you specify through this parameter. By default, the value is set to 3

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

compress A software compression is done on the client part to reduce the network

bandwidth use. This parameter turns on or turns off the the compression. Moreover, you could force Arkeia to use a defined compression algorithm. By default, the 'compress' value is set to LZ1_LZ3.

LZ1_LZ3	LZ1 or LZ3 compression
LZ1	LZ1 compression
LZ3	LZ3 compression
NO_COMPRESS	No compression

crypt An encryption could be performed to secure the network data stream. The encryption is done on the client part. This parameter set the encryption type. By default, 'crypt' value is DES_BLOWFISH. To get more information on the encryption process, please consult the related documentation.

DES_BLOWFISH	DES or FISH encryption
DES	DES encryption
BLOWFISH	FISH encryption
NO_CRYPT	No encryption

symb_link Arkeia could back up file systems following symbolic links. This feature should be used carrefully. Sometimes, multiple symbolic links, badly set, are linked reciprocally. By default, 'symb_link' value is set to NO.

YES	Follow symbolic links.
NO	Do not follow symbolic links.

follow_fs Arkeia could back up mounted file systems. This parameter fixes part of the backup policy choosing to back up or not the file systems mounted on the current directory. By default, follow_fs is set to YES

YES	Back up mounted file systems
NO	Not back up mounted file systems

filter Arkeia backs up files meeting UNIX find criteria. The 'filter' value is the choosen regular expression.

inc_filter To set an inclusion filter. Arkeia backs up files which meet filter set. The value is a regular expression used to define the file paths to include

exc_filter To set exclusion filter. Arkeia excludes from the savepack, the files which meet filter set. The value is a regular expression used to define the file paths to exclude

cmd_before Arkeia could execute a command, on the client part, on a savepack basis. The 'cmd_before' value is the command to execute before to start with the files backup.

do_cmd_before Arkeia proceeds the backup even the command before (see cmd_before parameter) fails.

YES, NO

cmd_after Arkeia could execute a command, on the client part, on a savepack basis. The 'cmd_after' value is the command to execute after that the files backup is done.

do_cmd_after Arkeia execute the command after (see cmd_after parameter) even the files backup fails.

YES, NO

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a savepack named MySavepack
arkc -savepack -create -D name=MySavepack

For more information: arkc -getinfo -savepack -create -property <parameter>

5.4.2 Remove Savepack Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -savepack -delete -D [PARAMETERS LIST]

DESCRIPTION

This command removes an existing savepack. You could remove several savepacks using the 'name' parameter as many times as you need.

OPTIONS

See global help

PARAMETERS LIST

name (or skid)
Name (resp. identifier) of the savepack.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To remove savepacks 'MyFirstSvpk' and 'MySecondSvpk'
arkc -savepack -delete -D name=MyFirstSvpk name=MySecondSvpk

For more information: arkc -getinfo -savepack -delete -property <parameter>

5.4.3 Savepack Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -savepack -modify -D [PARAMETERS LIST]

DESCRIPTION

To modify a savepack

OPTIONS

See global help

PARAMETERS LIST

name (or skid)
Name (resp. identifier) of the savepack.

[OPTIONAL]

allowed_fs his parameter shows the file systems you want to back up. You can decide to back up all the file system types setting ALL value. Using NORMAL value, NFS mount are not backed up. By default, allowed_fs parameter is set to NORMAL.

NORMAL
ALL
ALL_EXCEPT_NFS

comment To add a comment

[EXPERT]

retry If the backup of the savepack fails to realize a remote connection to a defined tree, Arkeia retries as many times as you specify through this parameter. By default, the value is

set to 3

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

compress A software compression is done on the client part to reduce the network bandwidth use. This parameter turns on or turns off the the compression. Moreover, you could force Arkeia to use a defined compression algorithm. By default, the 'compress' value is set to LZ1_LZ3.

LZ1_LZ3	LZ1 or LZ3 compression
LZ1	LZ1 compression
LZ3	LZ3 compression
O_COMPRESS	No compression

crypt An encryption could be performed to secure the network data stream. The encryption is done on the client part. This parameter set the encryption type. By default, 'crypt' value is DES_BLOWFISH. To get more information on the encryption process, please consult the related documentation.

DES_BLOWFISH	DES or FISH encryption
DES	DES encryption
BLOWFISH	FISH encryption
NO_CRYPT	No encryption

symb_link Arkeia could back up file systems following symbolic links. This feature should be used carrefully. Sometimes, multiple symbolic links, badly set, are linked reciprocally. By default, 'symb_link' value is set to NO.

YES	Follow symbolic links.
NO	Do not follow symbolic links.

follow_fs Arkeia could back up mounted file systems. This parameter fixes part of the backup policy, choosing to back up or not the file systems mounted on the current directory. By default, follow_fs is set to YES

YES	Back up mounted file systems
NO	Not back up mounted file systems

filter Arkeia backs up files meeting UNIX find criteria. The 'filter' value is the choosen regular expression.

inc_filter To set an inclusion filter. Arkeia backs up files which meet filter set. The value is a regular expression used to define the file paths to include

exc_filter To set exclusion filter. Arkeia excludes from the savepack, the files which meet filter set. The value is a regular expression used to define the file paths to exclude

cmd_before Arkeia could execute a command, on the client part, on a savepack basis. The 'cmd_before' value is the command to execute before to start with the files backup.

do_cmd_before Arkeia proceeds the backup even the command before (see cmd_before parameter) fails.

YES, NO

cmd_after Arkeia could execute a command, on the client part, on a savepack basis. The 'cmd_after' value is the command to execute after that the files backup is done.

do_cmd_after Arkeia execute the command after (see cmd_after parameter) even the files backup fails.

YES, NO

[OPTIONAL]
The following parameters apply on a tree basis. Each block of tree parameters must starts with <ITEM> and finish with </ITEM>. You MUST set the parameters using an input parameters file (see -I option in the general help).

tree_name File path name. (ie. tree_name=MyMachine:/home). If you want to remove this tree from the savepack, use dtree_name parameter.

tree_family By defautlt, Arkeia uses a sequential procedure to back up the trees selected on a same machine (same flow:0). To run parallel backups, the trees from a single machine are separated into several families via number set with 'tree_family' value. Trees with different 'tree_family' values are backed up in parallel.

0, 1, 2, 3, ..., n

tree_priority You could fix a priority on a tree basis to define a backup order. A tree with a high priority will be backed up first. a value of 0 defines a high priority, and a value of 100 defines a low priority.

0, 1, 2, 3, ..., 100

tree_chain The chain value is used to make dependencies between trees from different machines. A chain is created between two trees when you set the same 'tree_chain' value. To control the backup order, you have to set the 'tree_priority' parameter. The default configuration is 0 for all the trees (no chain requested).

0, 1, 2, 3, ..., n

tree_comment To add a comment

tree_retry (As retry parameter)

tree_compress (As compress parameter)

tree_crypt (As crypt parameter)

tree_cmd_before (As cmd_before parameter)

tree_do_cmd_before (As do_cmd_before parameter)

tree_cmd_after (As cmd_after parameter)

tree_do_cmd_after (As do_cmd_after parameter)

tree_type Type of tree. Available values are TREE, OBJECT and RAW (Default TREE)

Depending on tree_type value, you can modify others tree parameters

For tree_type=TREE
tree_symb_link (As symb_link parameter)

tree_allowed_fs (As allowed_fs parameter)

tree_follow_fs (As follo_fs parameter)

tree_filter (As filter parameter)

tree_inc_filter (As incc_filter parameter)

tree_exc_filter (As exc_filter parameter)

For tree_type=OBJECT
tree_bkpobj_cmd Arkeia allows to back up the result of a specified command. You specify the command which will be executed on the client, throught the 'tree_bkobj_cmd' value.

tree_rstobj_cmd To restore data backed up using 'tree_bkpobj_cmd' parameter. You have to set a 'tree_rstobj_cmd' value.

You don't want to use an input parameters file! You could also add new trees with tree_name in the command line. The restriction is that you could not specify any other tree parameters. Mainly, it is not neccessary because you keep the default values.

RETURN VALUE
On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To modify savepack MySavepack adding a new tree without others options
arkc -savepack -modify -D name=MySavepack tree_name=mymachine:/usr/home

To modify savepack MySavepack adding a new tree of type TREE
arkc -savepack -modify -Ifile_contains_parameters_list

File file_contains_parameters_list contains:

```
#
# Arkc example file , (c) 2000 Knox software
#
# File created 2000/03/27
#

name = MySavepack
comment = [ Modifying MySaveack using command line mode :-) ]

<ITEM>
tree_name = mymachine:/usr/home
tree_retry = 2
tree_compress = NO_COMPRESS
tree_comment = [ Tree containing all users data ]
</ITEM>

#
# End of the file
#
```

For more information: arkc -getinfo -savepack -modify -property <parameter>

5.4.4 List of Savepacks Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -savepack -list [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To get a savepack's list. If no additional argument is used, the name of all existing savepacks is displayed. Adding a 'name' (or 'skid') parameter, all the savepack settings are printed.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

name (or skid)
Name (resp. identidier) of the savepack. You get the savepack's settings list

FILTERS LIST

name To display the list of savepacks by name

skid To display the list of savepacks by identifier

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -savepack -list -property <parameter>

5.5 Arkc Drive Commands Help

5.5.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those commands manage drive operations like creation.

action list
create, delete, modify, list, type, read, write.

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -drive -<action>'

EXAMPLES

If you want the online help for the drive creation arkc -usage -drive -create

For more information: arkc -usage -drive -<action>

5.5.2 Drive Creation Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -create -D [PARAMETERS LIST]

DESCRIPTION

To create a new drive

OPTIONS

See global help

PARAMETERS LIST

name Name of the drive (ex. drive=DLT_1)

type The type of the drive. Arkeia manages most of the tape drives available in the storage market. To get a complete list, try 'arkc -drive -type'

rewind_dev The rewind device attached to the drive. This device is used for the read/write operations. It is the device generally used with the mt command. For example, on the linux system, you probably have /dev/st0

[OPTIONAL]

comment To add a comment

[EXPERT]

access To set the drive access rights. By default, 'access' rights are read, write, recycle and delete (i.e: access=[WRITE|READ])

WRITE	write access is enabled
READ	read access is enabled
DELETE	delete right is enabled

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a drive named DLT_1

arkc -drive -create -D name=DLT_1 rewind_dev=/dev/st0

For more information: arkc -getinfo -drive -create -property <parameter>

5.5.3 Remove Drive Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -delete -D [PARAMETERS LIST]

DESCRIPTION

This command removes one or several drives. To delete several drives, you could use the 'name' parameter as many times as you need.

OPTIONS

See global help

PARAMETERS LIST

name (or drvid) Name (resp. identidier) of the drive. You could set this parameter repetitively to remove several drives.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -drive -delete -property <parameter>

5.5.4 Drive Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -modify -D [PARAMETERS LIST]

DESCRIPTION

This command changes the drive's settings.

OPTIONS

See global help

PARAMETERS LIST

name Name of the drive (ex. drive=DLT_1)

[OPTIONAL]

rewind_dev The rewind device attached to the drive. This device is used for the read/write operations. It is the device generally used with the mt command. For example, on the linux system, you probably have /dev/st0

comment To add/change a comment

[EXPERT]

access To set the drive access rights. By default, 'access' rights are read, write, recycle and delete (i.e: access=[WRITE|READ])

WRITE	write access is enabled
READ	read access is enabled
DELETE	delete right is enabled

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To modify the rewind device of the drive called 'DLT_1' arkc -drive -modify -D name=DLT_1 rewind_dev=/dev/st1

For more information: arkc -getinfo -drive -modify -property <parameter>

5.5.5 List of Drives Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -list [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To get a drive's list. If no additional argument is used, the name of all the existing drives is displayed. Adding a 'name' (or 'drvid') parameter, all the drive settings are printed.

OPTIONS

See global help.

PARAMETERS LIST

[OPTIONAL]
name (or drvid)
Name (resp. identidier) of the drive. You get the drive's settings list.

FILTERS LIST
name To display a list of drives by name.

drvid To display a list of drives by identifier.

RETURN VALUE
On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES
To get the existing drives displaying drive's identifier
arkc -drive -list -Fdrvid

For more information: arkc -getinfo -drive -list -property <parameter>

5.5.6 Drive Type Help

Arkeia command line mode.

SYNOPSIS
arkc [OPTIONS] -drive -type

DESCRIPTION
This command displays all the drive types currently managed by the Arkeia backup server. Arkeia integrates most of the existing tape drive types including DAT, DLT, AIT, ECRIX, ...

OPTIONS
See global help

RETURN VALUE
On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

5.5.7 Read Drive Content Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -read [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To check if there is any tape in the specified drive. If there is a tape, arkc displays the label. To analyze the command result, you have to check the exit value of the command line.

OPTIONS

See global help

PARAMETERS LIST

name (or drvid)
Name (resp. identifier) of the drive (ie: name=ECRIX_DRIVE)

FILTERS LIST

tpname o display the name of the tape currently in the drive

tpid To display the identifier of the tape currently in the drive

RETURN VALUE

On success, returned values are :

0 drive is full
1 drive is empty

If an error occurs 'arkc' returned other values. See errors table, arkc -usage -debug -errors

EXAMPLES

To display the label of the tape inserted in the drive 'ECRIX_DRIVE' arkc -drive -read -D name=ECRIX_DRIVE -Ftpname

For more information: arkc -getinfo -drive -read -property <parameter>

5.5.8 Write on Drive Content Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drive -write -D [PARAMETERS LIST]

DESCRIPTION

To write a label on the tape inserted in your drive. By default, Arkeia doesn't allow to overwrite the label of an already labeled tape. In that case, you must declare the 'overwrite' parameter.

OPTIONS

See global help

PARAMETERS LIST

name (or drvid) Name (resp. identifier) of the drive.

tpname Label to write on the tape inserted in the drive

[OPTIONAL]

overwrite To force the writing process, if the tape is already labeled (By default, 'overwrite' value is NO). Available values are

YES, NO

RETURN VALUE

On success, returned values are :

0 drive is full, label is written
1 drive is empty

If an error occurs 'arkc' returned others values. See errors table, arkc -usage -debug -errors

EXAMPLES

To write a label on a tape contained in the drive ECRIX_DRIVE arkc -drive -write -D name=ECRIX_DRIVE tpname=MyTape overwrite=YES

For more information: arkc -getinfo -drive -write -property <parameter>

5.6 Arkc Drivepack Commands Help

5.6.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drivepack -<action> -D[PARAMETERS LIST]

DESCRIPTION

Those command manage drivepack operations like creation or modification.

action list
create, delete, modify, list.

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -drivepack -<action>'

EXAMPLES

If you want the online help for the drivepack creation
arkc -usage -drivepack -create

For more information: arkc -usage -drivepack -<action>

5.6.2 Drivepack Creation Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drivepack -create -D [PARAMETERS LIST]

DESCRIPTION

This command creates a drivepack.

OPTIONS

See global help

PARAMETERS LIST

name Name of the drivepack (i.e name=MyDrivepack)

[OPTIONAL]

comment To add a comment

[EXPERT]

nbdrive Maximum of used drives during a backup. By default, the value is set to the maximum of the available drives in the drivepack.

1, 2, 3, 4, 5, ..., 128

[OPTIONAL]

The following parameters apply on a drive basis. Each block of drive parameters must start with <ITEM> and finish with </ITEM>. You MUST set the parameters using a input parameters file (see -I option in the general help).

drvname (or drvid) Name (resp. identifier) of the drive to include in the drivepack

priority Priority of the drive to add. By default, the value is set to 1.

1, 2, 3, 4, 5, ..., 128

You don't want to use an input parameters file! You can also add new drives with the drvname or drvid parameters in the command line. The restriction is that you could not specify the 'priority' parameter.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a drivepack 'ALL_DRIVES' containing the existing drive 'DLT_1'
arkc -drivepack -create -D name=ALL_DRIVES drvname=DLT_1

For more information: arkc -getinfo -drivepack -create -property <parameter>

5.6.3 Remove Drivepack Help

Arkeia command line mode.

SYNOPSIS
arkc [OPTIONS] -drivepack -delete -D [PARAMETERS LIST]

DESCRIPTION
This command removes a drivepack.

OPTIONS
See global help

PARAMETERS LIST
name (or dkid) Name (resp. identifier) of the drivepack

RETURN VALUE
On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -drivepack -delete -property <parameter>

5.6.4 Drivepack Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drivepack -modify -D [PARAMETERS LIST]

DESCRIPTION

This command changes the drivepack content

OPTIONS

See global help

PARAMETERS LIST

name (or drvid) Name (resp. identifier) of the drivepack (i.e name=MyDrivepack)

[OPTIONAL]

comment To add a comment

[EXPERT]

nbdrive Maximum of used drives during a backup. By default, all available drives are used.

1, 2, 3, 4, 5, ..., 128

[OPTIONAL]

The following parameters apply on a drive basis. Each block of drive's parameters must start with <ITEM> and finish with </ITEM>. You must set parameters using an input parameters file (see -I option in the global help).

drvname (or drvid) Name (resp. identifier) of the drive to include in the drivepack. If you want to remove the drive from the drivepack, you have to use the ddrvname or ddrvid parameter

priority Priority of the drive. By default, the value is set to 1.

1, 2, 3, 4, 5, ..., 128

You don't want to use an input parameters file! You could also add new drives with drvname or drvid parameters in the command line. The restriction is that you could not specify the priority.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To modify the drivepack 'ALL_DRIVES' adding a new drive MyNewDrive with priority 5
arkc -drivepack -modify -Ifile_contains_parameters_list

File file_contains_parameters_list contains:

```
#
# Arkc example file , (c) 2000 Knox software
#
# File created 2000/03/27
#

name = ALL_DRIVES
comment = [ Modifying MyDrivepack using command line mode :-) ]

<ITEM>
drvname = MyNewDrive
priority = 5
</ITEM>

#
# End of the file
#
```

For more information: arkc -getinfo -drivepack -modify -property <parameter>

5.6.5 List of Drivepacks Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -drivepack -list [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To get a drivepack's list. If no additional argument is used, the name of all the existing drivepacks is displayed. Adding a name (or dkid) parameter all the drivepack settings are printed.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

name (or dkid) Name (resp. identifier) of the drivepack. You get the drivepack's settings list.

FILTERS LIST

name To display the name of the existing drivepacks

dkid To display the identifier of the existing drivepacks

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -drivepack -list -property <parameter>

5.7 Arkc Library Commands Help

5.7.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those command manage library operations like start or stop library.

action list
create, delete, modify, list, type, start, stop, settape, unsettape, attach, detach, drvlist, load, unload

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS
See the global help

PARAMETERS LIST
Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -library -<action>'

EXAMPLES
If you want the online help of the library creation
arkc -usage -library -create

For more information: arkc -usage -library -<action>

5.7.2 Library Creation Help

Arkeia command line mode.

SYNOPSIS
arkc [OPTIONS] -library -create -D [PARAMETERS LIST]

DESCRIPTION
Arkeia manages libraries. To check if your hardware is in the Arkeia list, you could retreive the robot types list. The 'create' command creates a logical library to handle your hardware.

OPTIONS
See global help

PARAMETERS LIST
name ame of the library

type ype of the library. Try, 'arkc -library -type' to get all the libraries handled by Arkeia

libdev nly if the library is NOT a robot FILE. The 'libdev' parameter sets the control device. This device is used to control a library and depends on your system and on your own configuration. On a Linux system, Arkeia manages a library through one of the generic scsi driver sg?. On SuSE, /dev/sg0, /dev/sg1,... .On RedHat /dev/sga, /dev/sgb, ...

[OPTIONAL]
comment To add a comment

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -create -property <parameter>

5.7.3 Remove Library Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -delete -D [PARAMETERS LIST]

DESCRIPTION

To delete a library

OPTIONS

See global help

PARAMETERS LIST

name (or libid) ame (resp. identifier) of the library

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -delete -property <parameter>

5.7.4 Library Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -modify -D [PARAMETERS LIST]

DESCRIPTION

This command modifies library's settings. Particularly, the control device which depends on your hardware configuration.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

[OPTIONAL]

libdev Only if the library is NOT a robot FILE. The 'libdev' parameter sets the control device. This device is used to control a library and it depends on your system and on your own configuration. On a Linux system, Arkeia manages a library through one of the generic scsi driver sg?. On SuSE, /dev/sg0, /dev/sg1,... .On RedHat /dev/sga, /dev/sgb, ...

comment To add a comment

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -modify -property <parameter>

5.7.5 List of Libraries Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -list [-D [PARAMETERS LIST] [FILTERS]

DESCRIPTION

To get a library's list. If no additional argument is used, the name of all the existing libraries is displayed. Adding a 'name' (or 'libid') parameter, all the library settings are displayed.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

name (or libid)Name (resp. identifier) of the library (i.e: name=MyLibrary). You get the library's settings list.

FILTERS LIST

name To display the name

libid To display the identifier

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -list -property <parameter>

5.7.6 - Type of Library Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -type

DESCRIPTION

To get the list of all the types of library managed by your Arkeia backup server.

OPTIONS

See global help

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

5.7.7 Start a Library Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -start -D [PARAMETERS LIST]

DESCRIPTION

To use your library, Arkeia has to start a dedicated module. This is done automatically before a backup, if the robot was not used yet. However, you could start the library manually.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To start the library MyLibrary
arkc -library -start -D name=MyLibrary

For more information: arkc -getinfo -library -start -property <parameter>

5.7.8 Stop a Library Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -stop -D [PARAMETERS LIST]

DESCRIPTION

To stop manually the logical module dedicated to your hardware.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES

To stop the library MyLibrary
arkc -library -stop -D name=MyLibrary

For more information: arkc -getinfo -library -stop -property <parameter>

5.7.9 Set Tapes Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -settape -D [PARAMETERS LIST]

DESCRIPTION

To set library's slots. Part of the library configuration requests to associate the tapes in the slots to the existing logical tapes. You could set as many slots as your library allows.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

tpname (or tpid) Name (resp. identifier) of the logical tapes to associate to the slots

slot Identifier of the slot containing a tape.

1, 2, 3, ...,n

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To set slots 1,2,3,4 with tape MyTape5, MyTape6, MyTape7, MyTape8 arkc -library -settape -D name=MyLibrary slot=1 slot=2 slot=3 slot=4 tpname=MyTape5 tpname=MyTape6 tpname=MyTape7 tpname=MyTape8

For more information: arkc -getinfo -library -settape -property <parameter>

5.7.10 Unset Tapes Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -unsettape -D [PARAMETERS LIST]

DESCRIPTION

To unset tapes from a library.

OPTIONS

See global help

PARAMETERS LIST

name (or libid)Name (resp. identifier) of the library

slot Identifier of the slot containing the tape to unset.

1, 2, 3, ..., n

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To unset slots 1,2,4

arkc -library -unsettape -D name= MyLibrary slot=1 slot=2 slot=4

For more information: arkc -getinfo -library -unsettape -property <parameter>

5.7.11 Attach Drives Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -attach -D [PARAMETERS LIST]

DESCRIPTION

It is a part of the library configuration, attaching one or several logical drives to your library. This operation performs a logical link between the library and the tape drives.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

drvname (or drvid) Name (resp. identifier) of the drive to attach

[EXPERT]

drvnum Logical number of the drive to attach. If your library contains only one drive, this parameter is useless. But, if your hardware contains several drives, you may pay attention to this logical number. A bad logical number can generates some troubles. Try to validate the configuration, attaching one drive each time, drive after drive.

1, 2, 3, ..., 128

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To attach the drive MyDrive to MyLibrary
arkc -library -attach -D name=MyLibrary drvname=MyDrive

For more information: arkc -getinfo -library -attach -property <parameter>

5.7.12 Detach Drives Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -detach -D [PARAMETERS LIST]

DESCRIPTION

To detach a drive from a library. You could use as many 'drvname' parameters as you want to detach several drives at once.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

drvname (or drvid) Name (resp. identifier) of the drive to detach. You could set this parameter repetitively

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -detach -property <parameter>

5.7.13 Drives's List Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -drvlist [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To list all the drives attached to a library

OPTIONS

See global help

PARAMETERS LIST

name (or libid) Name (resp. identifier) of the library

FILTERS LIST

drvname To display drives by name

drvid To display drives by identifier

drvnum To display drive number

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -library -drvlist -property <parameter>

5.7.14 Load a Tape Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -library -load -D [PARAMETERS LIST]

DESCRIPTION

To load a tape from a library's slot to a given drive. If no drive is specified, the default one, with the drive number 1, is used. A drive number is assigned by Arkeia to each drive attached to the library. This command applies on an existing logical library, therefore it can't be used without a valid Arkeia library license.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) ame (resp. identifier) of the library.

Slot lot containing the tape to load. To get library's slots content, use the '-library -list' command specifying the library name as additional parameter.

[OPTIONAL]

drvnum Gives the drive to use. By default, arkeia use the first drive. To get library's attached drives, use the '-library -drvlist' command specifying the library name as parameter.

RETURN VALUE

On success, returned values are :

0	tape is loaded
1	slot is empty
2	drive is already full

If an error occurs 'arkc' returned other values. See errors table, arkc -usage -debug -errors

EXAMPLES

To load a tape from the slot 4 to the default drive.
arkc -library -load -D name=MyLibrary slot=4

5.7.15 Unload a Tape Help

Arkeia command line mode

SYNOPSIS

arkc [OPTIONS] -library -unload -D [PARAMETERS LIST]

DESCRIPTION

To unload a tape from a given drive to a library's slot. If no drive is specified, the default one, with the drive number 1, is used. A drive number is assigned by Arkeia to each drive attached to the library. This command applies on an existing logical library, therefore it can't be used without a valid Arkeia library license.

OPTIONS

See global help

PARAMETERS LIST

name (or libid) ame (resp. identifier) of the library.

Slot Slot where the tape is unloaded. To get library's slots content, use the '-library -list' command specifying the library name as additional parameter.

[OPTIONAL]

drvnum Gives the drive to use. By default, arkeia use the first drive. To get library's attached drives, use the '-library -drvlist' command specifying the library name as parameter.

RETURN VALUE

On success, returned values are :

0	tape is unloaded
1	drive is empty
2	slot is already full

If an error occurs 'arkc' returned other values. See errors table, arkc -usage -debug -errors

EXAMPLES

To unload a tape from drive 2 to the slot 4.
arkc -library -unload -D name=MyLibrary slot=4 drvnum=2

5.8 Arkc Backup Commands Help

5.8.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -<action> -D [PARAMETERS LIST]

DESCRIPTION

One of the most important use of the arkc interface, is to start backups or to control running one. You could, also, retreive old backups using tag option.

action list
start, connect, status, running, done, tag

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help.

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -backup -<action>'

EXAMPLES

If you want the online help to start a backup
arkc -usage -backup -start

For more information: arkc -usage -backup -<action>

5.8.2 Start a Backup Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -start -D [PARAMETERS LIST]

DESCRIPTION

To start an interactive backup. You have to specify the savepack to back up, the pool and the drivepack to use. If the current command succeeds, the backup identifier bksid is displayed and the return value is zero

OPTIONS

See global help

PARAMETERS LIST

skname (or skid) Name (resp. identifier) of the savepack to back up

plname (or plid) Name (resp. identifier) of the pool containing the tape(s) to use

dkname (or dkid) Name (resp. identifier) of the drivepack containing the drive(s) to use

[OPTIONAL]
policy Tape policy to use. Arkeia selects a new tape for the current backup or complete a written tape, available in the selected pool, depending on the choosen policy. By default, 'policy' has the value COMPLETE.

COMPLETE Complete written tape
NEW Use a new tape

wait Blocking mode option. The command returns when the backup is completed. By default, the value is NO and arkc doens't stay in a blocking mode.

YES Wait backup end
NO Do not wait backup end

email To activate the email feature. Arkeia sends an email after each backup or when a backup job requests a new tape. By default, it does. However, to really receive an email, you have to add an email address to the current arkeia user.

YES Send an email at backup end
NO Do not send an email at backup end

mode To choose between the continous mode or the standard mode. If you choose continous mode, Arkeia will let run the backup until you decide to stop it. The default mode is STANDARD.

STANDARD Stop the backup job when it is completed
CONTINOUS Never stop the backup job

tag To set a tag name to the backup

comment Add a comment

[EXPERT]
retention Retention date of the data backed up during this job. This parameter MUST be completed by the 'retunit' parameter.

1, 2, 3, ..., n

retunit Unit for the retention time (see 'retention' parameter).

DAY
WEEK
MONTH
YEAR

parallelism To specify a maximum number of used flows. By default, Arkeia uses the maximum number of flow allowed.

1, 2, 3, ..., 128

type To set part of the backup strategy. Arkeia realizes both total and incremental backups. By default, 'type' has the value TOTAL.

TOTAL Total backup
INCREMENTAL Incremental backup
ARCHIVE

based_on_bksid Only with an incremental backup. This is the identifier of the backup which the current backup must be based on

based_on_date Only with an incremental backup. This is the date which the current backup must be based on. Value must be set as follow, based_on_date=2000/12/31

based_on_tag Only with an incremental backup. This is the backup tag which the current backup must be based on

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To start a backup with a tag MyCurrentBackup
arkc -backup -start -D dkname=MyDrivepack skname=MySavepack plname=MyPool tag=MyCurrentBackup

For more information: arkc -getinfo -backup -start -property <parameter>

5.8.3 Connect to a Running Backup Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -connect -D [PARAMETERS LIST]

DESCRIPTION

This command performs different operations on a running backup. You could connect an arkc command to a running backup waiting that the job is completed using the 'wait' parameter. With 'exec=SETMODE' parameter/value, you have the ability to modify the backup mode status adding the 'mode' parameter. If you use Arkeia in a single drive configuration, this command is practical to proceed with a backup even it is waiting for a new tape. Insert a new tape in the drive, and execute an arkc command using exec=SETTAPE parameter/value.

OPTIONS

See global help.

PARAMETERS LIST

bksid (or tag) Identifier of the running backup.

tag (or bksid) The tag value is associated to a running backup (see tag parameter for the 'arkc -backup -start' command)

wait (or exec) Blocking mode option. To wait until the backup is completed.

YES	Wait the end of the backup
NO	Do not wait the end of the backup

exec (or wait)Choose within the following operation,

ABORT	Stop the current backup
ADDSK	Add a new savepack to a running backup
SETTAPE	Inform Arkeia that a new tape has been inserted
SETMODE	Modify running mode of the backup

[OPTIONAL]
drvname Only if you have choosen SETTAPE operation. It is the drive containing the new inserted tape

mode Only if you have choosen SETMODE operation.

STANDARD	Stop the job after the files backup
CONTINOUS	Never stop the backup job

(i.e: exec=SETMODE mode=CONTINOUS)

skname Only if you have choosen the ADDSK operation. This parameter is the savepack to add.

RETURN VALUE

On success, returned values are :

0	backup job is running
1	backup job needs a new tape
2	backup job is finished

If an error occurs 'arkc' returned others values. See errors table, arkc -usage -debug -errors

EXAMPLES

To stop running backup which tag is MyCurrentBackup
arkc -backup -connect -D tag=MyCurrentBackup exec=ABORT

You've starded a backup using a single drive and Arkeia is waiting for a new tape. You have now insert the new tape. You need advertise current backup job.
arkc -backup -connect -D tag=MyCurrentBackup exec=SETTAPE drvname=MyDrive

For more information: arkc -getinfo -backup -connect -property <parameter>

5.8.4 Status of a Backup Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -status -D [PARAMETERS LIST]

DESCRIPTION

To retreive the status of a running backup. If the returned value is 1, 'drvname' and 'tpname' values are displayed. 'drvname' is the drive used and 'tpname' the tape to insert in the drive.

OPTIONS

See global help

PARAMETERS LIST

bksid (or tag) Identifier of the backup.

tag (or bksid) tag value is associated to a running backup (see the 'tag' parameter of the 'arkc -backup -start' command).

RETURN VALUE

On success, returned values are :

0	backup job is running
1	backup job needs a new tape
2	backup job is finished

If an error occurs 'arkc' returned others values. See errors table, arkc -usage -debug -errors

EXAMPLES

To know the status of a backup. See the RETURN VALUE section
arkc -backup -status -D tag=MyCurrentBackup

For more information: arkc -getinfo -backup -status -property <parameter>

5.8.5 List of the Running Backups Help

Arkeia command line mode

SYNOPSIS

arkc [OPTIONS] -backup -running -D [PARAMETERS LIST]

DESCRIPTION

To retreive the running backups list. This command displays the 'bksid' (running backup identifier) which is important if you have to connect to or have to ask the status of a running backup.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

tag If you specify a tag which is associated to a running backup, the command output is its 'bksid'

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To display the running backups list
arkc -backup -running

For more information: arkc -getinfo -backup -running -property <parameter>

5.8.6 List of the Done Backups Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -done [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

This command retreives the old backups list. Arkeia archives all the backup information. You could use several filters like 'sdate' or like 'bksid' to display both the identifier and the date of old backups.

PARAMETERS LIST

[OPTIONAL]

bksid To apply a command on a backup using the backup identifier

FILTERS LIST

bksid To display the backup by identifier

date To display the backup by date in a numerical format (In seconds since 1970/01/01)

sdate To display the backup by date in a string format

EXAMPLES

To print old backups list using date and identifier filters.
arkc -backup -done -Fsdate -Fbksid

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -backup -done -property <parameter>

5.8.7 List of Backups by Tag Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -backup -tag [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To list the existing backups referenced by a tag.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

tag To apply the command on a specific tag

FILTERS LIST

tag To display the backup by tag

bksid To display the backup by identifier

date To display the backup by date in a numerical format (In seconds since 1970/01/01)

sdate To display the backup by date in a string format

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -backup -tag -property <parameter>

5.9 Arkc Restore Commands Help

5.9.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -restore -<action> -D [PARAMETERS LIST]

DESCRIPTION

To control restoration operations.

action list
start, connect, status, running

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help. Try, 'arkc -usage -restore -<action>'

For more information: arkc -usage -restore -<action>

5.9.2 Start a Restore Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -restore -start -D [PARAMETERS LIST]

DESCRIPTION

To start a restoration. You must specify the files to restore (see 'file'). If you use Arkeia in a single drive configuration, don't forget to set the 'drvname or the 'drvid' parameter. If the command succeeds, the restoration identifier 'rstid' is displayed and the return value is zero.

OPTIONS

See global help.

PARAMETERS LIST

file File or directory to restore

[OPTIONAL]

from Arkeia allows to restore with redirection. The 'from' value is the source directory. This is the string to replace with 'to' value in the file path name. For example, you want to restore all unix1:/usr/knox system file to linux1:/usr/tmp/knox , then set from=unix1:/usr to=linux1:/usr/tmp

to (See 'from' parameter)

wait Blocking mode option. Arkc command returns when the job is completed. By default, the 'wait' value is set to NO

YES	Wait restoration end
NO	Do not wait restoration end

drvname (or drvid) Name (resp. identifier) of the drive to use in a single drive configuration

[EXPERT]

rstopt To choose new restoration options like to restore or not file access rights. Generally, you haven't to use rstopt parameter.

RST_TIMES	Restore time information
RST_PERMS	Restore access rights
RST_BYID	Restore by user identifier
RST_BYNAME	Restore by user name
RST_CHKTIME	Check if the existing file is newer

if you want to define a time interval,within Arkeia checks for the files to restore, you have to set two different time points.

Start point:

start_bksid	Start point with backup identifier
start_date	Start point with a date (In seconds since 1970/01/01)
start_sdate	Start point with a date (string format YYYY/MM/DD)

End point:

end_bksid	Final point with backup identifier
end_date	Final point with a date (In seconds since 1970/01/01)
end_sdate	Final point with a date (string format YYYY/MM/DD)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -restore -start -property <parameter>

5.9.3 Connect to a Running Restore Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -restore -connect -D [PARAMETERS LIST]

DESCRIPTION

This command performs different operations on a running restoration. You could connect to a running restore waiting that the job is completed using the 'wait' parameter.

If you use Arkeia in a single drive configuration, this command is practical to proceed with the restore even it is waiting for a new tape. Insert a new tape, and execute an arkc command using exec=SETTAPE parameter/value. Moreover, when the restore asks for a drive to use, you proceed with the restoration with the SETDRIVE operation specifying your tape drive name via the 'drvname' parameter.

OPTIONS

See global help

PARAMETERS LIST

rstid (or tag) Identifier of the restore job.

tag (or rstid) tag value is associated to a running restore (see tag parameter for the arkc -restore -start command).

wait (or exec) Blocking mode option. By default, wait value is set to NO

YES	Wait restoration end
NO	Do not wait restoration end

exec (or wait) You have to set one of the following value:

ABORT	Stop the current restore
SETTAPE	Inform Arkeia that a new tape has been inserted
SETDRIVE	Set a drive for the restoraton

[OPTIONAL]

drvname If you have choosen SETDRIVE operation, 'drvname' value is the drive you use for the restoration. If you have choosen SETTAPE operation, it is the drive which you have inserted a new tape in.

RETURN VALUE

On success, returned values are :

0	restore job is running
1	restore job needs a new tape
2	restore job is completed
3	restore job needs a drive

If an error occurs 'arkc' returned others values. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -restore -connect -property <parameter>

5.9.4 Status of a Restore Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -restore -status -D [PARAMETERS LIST]

DESCRIPTION

To retreive the status of a running restoration. If the returned value is 1, the 'drvname' and 'tpname' values are displayed. 'drvname' is the drive used and 'tpname' the tape to insert in the drive.

OPTIONS

See global help

PARAMETERS LIST

rstid (or tag) Identifier of the restore.

tag (or rstid) A tag value is associated to a running restore (see tag parameter for the 'arkc -restore -start' command).

RETURN VALUE

On success, returned values are :

0 restore job is running
1 restore job needs a new tape
2 restore job is completed
3 restore job needs a drive

If an error occurs 'arkc' returned others values. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -restore -status -property <parameter>

5.9.5 List of Running Restores Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -restore -running -D [PARAMETERS LIST]

DESCRIPTION

To retreive the running restorations list. This command displays the 'rstid' (running restore identifier) which is important if you have to connect to or have to ask the status of a running restoration.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

tag If you specify a tag which is associated to a running restore, the command output is its 'rstid'

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -restore -running -property <parameter>

5.10 Arkc Journal Commands Help

5.10.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -<action> -D [PARAMETERS LIST]

DESCRIPTION

To get backup, restore, drive, tape and global logs of the Arkeia backup server.

action list
all, jtape, jdrive, jrestore, jbackup

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -journal -<action>'

For more information: arkc -usage -journal -<action>

5.10.2 Global Journal Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -all -D [PARAMETERS LIST]

DESCRIPTION

To retreive the complete log journal. By default, this command displays the journal of the current month.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

month Month selected (By default, current month). Values allowed are

1, 2, ..., 11, 12

[EXPERT]

level Information level displayed (By default, %I%W%E)

%I Information
%W Warning
%E Error
(i.e: level=%I%W%E)

filter Information type displayed (By default, %D%T%L%I%S)

%D Date
%T Time
%L Level
%I Information
%S String message
(i.e: filter=%D%T%S)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES

To retreive the journal of may
arkc -journal -all -D month=5

For more information: arkc -getinfo -journal -all -property <parameter>

5.10.3 Tapes's Journal Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -jtape -D [PARAMETERS LIST]

DESCRIPTION

To retreive the tape journal.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

month Month selected (By default, current month). Values allowed are

1, 2, ..., 11, 12

[EXPERT]

level Information level displayed (By default, %I%W%E)

%I Information
%W Warning
%E Error

(i.e: level=%I%W%E)

filter Information type displayed (By default, %D%T%L%I%S)

%D Date
%T Time
%L Level
%I Information
%S String message
(i.e: filter=%D%T%S)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES

To retreive the journal of may
arkc -journal -jtape -D month=5

For more information: arkc -getinfo -journal -jtape -property <parameter>

5.10.4 Drives's Journal Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -jdrive -D [PARAMETERS LIST]

DESCRIPTION

To retreive the drive journal.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]

month Month selected (By default, current month). Values allowed are

1, 2, ..., 11, 12

[EXPERT]

level Information level displayed (By default, %I%W%E)

%I Information
%W Warning
%E Error
(i.e: level=%I%W%E)

filter Information type displayed (By default, %D%T%L%I%S)

%D Date
%T Time
%L Level
%I Information
%S String message
(i.e: filter=%D%T%S)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES

To retreive the journal of may
arkc -journal -jdrive -D month=5

For more information: arkc -getinfo -journal -jdrive -property <parameter>

5.10.5 Restores's Journal Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -jrestore -D [PARAMETERS LIST]

DESCRIPTION

To retreive the restoration journal.

OPTIONS

See global help

PARAMETERS LIST

[OPTIONAL]
month Month selected (By default, current month). Values allowed are

1, 2, ..., 11, 12

[EXPERT]
level Information level displayed (By default, %I%W%E)

%I Information
%W Warning
%E Error
(i.e: level=%I%W%E)

filter Information type displayed (By default, %D%T%L%I%S)

%D Date
%T Time
%L Level
%I Information
%S String message
(i.e: filter=%D%T%S)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To retreive the journal of may
arkc -journal -jrestore -D month=5

For more information: arkc -getinfo -journal -jrestore -property <parameter>

5.10.6 Backups's Journal Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -journal -jbackup -D [PARAMETERS LIST]

DESCRIPTION

To retreive a specific backup journal.

OPTIONS

See global help

PARAMETERS LIST

bksid Identifier of the backup. You get log of this backup.

[OPTIONAL]

month Month selected (By default, current month). Values allowed are :

1, 2, ..., 11, 12

[EXPERT]

level Information level displayed (By default, %I%W%E)

%I Information
%W Warning
%E Error
(i.e: level=%I%W%E)

filter Information type displayed (By default, %D%T%L%I%S)

%D Date
%T Time
%L Level
%I Information
%S String message
(i.e: filter=%D%T%S)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To retreive a journal of may
arkc -journal -jbackup -D month=5

For more information: arkc -getinfo -journal -jbackup -property <parameter>

5.11 Arkc File Commands Help

5.11.1 List of Backed up Files Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -file -list [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To get a list of the files located on a tape. The database analyzing operation take a while. You may have to restrain the search using the parameter 'file' to specify a machine name or a directory (See example section below).

OPTIONS

See global help

PARAMETERS LIST

tpname (or tpid) Name (esp. identifier) of the tape to analyse. You could add as many tapes as you want in the command line.

[OPTIONAL]

file To restrain the search to a directory (i.e. file=mars: ,to list files backed up on 'mars')

[EXPERT]

You could define a time interval for the search. You have to set two differents time points.

Start point:

start_bksid Start point with backup identifier
start_date Start point with a date (In seconds since 1970/01/01)
start_sdate Start point with a date (string format YYYY/MM/DD)

End point:

end_bksid Final point with backup identifier
end_date Final point with a date (In seconds since 1970/01/01)
end_sdate Final point with a date (string format YYYY/MM/DD)

FILTERS LIST

file File backed up on the specified tape(s)

EXAMPLES

To list the backed up file mymachine:/usr/home on the tape MyTape.
arkc -file -list -D file=mymachine:/usr/home tpname=MyTape

To list all the backed up files on the tape MyTape between 1st january 2000 to 1st April 2000.
arkc -file -list -D tpname=MyTape start_sdate=[2000/01/01] end_sdate=[2000/04/01]

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

For more information: arkc -getinfo -file -list -property <parameter>

5.11.2 Location of Files Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -file -where [-D [PARAMETERS LIST]] [FILTERS]

DESCRIPTION

To retreive tapes containing specified files

OPTIONS

See global help

PARAMETERS LIST

file File path or directory (i.e: 'mars:')

[EXPERT]

You could define a time interval for the search. You have to set two differents time points.

Start point:

start_bksid Start point with backup identifier
start_date Start point with a date (In seconds since 1970/01/01)
start_sdate Start point with a date (string format YYYY/MM/DD)

End point:

end_bksid Final point with backup identifier
end_date Final point with a date (In seconds since 1970/01/01)
end_sdate Final point with a date (string format YYYY/MM/DD)

FILTERS LIST

tpname To display tapes containing the files by name

tpid To display tapes containing the files by identifier

EXAMPLES

To retreive tape name containing file mymachine:/usr/home
arkc -file -where -D file=mymachine:/usr/home

For more information: arkc -getinfo -file -where -property <parameter>

5.12 Arkc User Commands Help

5.12.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -user -<action> -D [PARAMETERS LIST]

DESCRIPTION

Those commands control user operations.

action list
create, delete, modify, list, role

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help.

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help.
Try, 'arkc -usage -user -<action>'

EXAMPLES

If you want the online help for the user creation
arkc -usage -user -create

For more information: arkc -usage -user -<action>

5.12.2 Arkeia User Creation Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -user -create -D [PARAMETERS LIST]

DESCRIPTION

This command creates a new Arkeia user.

OPTIONS

See global help

PARAMETERS LIST

name Name of the user (ex. name=support45)

role User's role (ex. role=OPERATOR). To retreive the complete role list, try 'arkc -user -role'

node Generally, it is the Arkeia backup server name

[OPTIONAL]
email If you want to use the Arkeia email feature (Receive an email after a backup), you have to set the user's email address.

passwd You should set a password to a new user. You must also set the 'vpasswd' to confirm the password value

vpasswd (See 'passwd' parameter)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To create a user 'support45'.
arkc -user -create -D name=support45 role=OPERATOR email=support@arkeia.com passwd=mypassword vpasswd=mypassword

For more information: arkc -getinfo -user -create -property <parameter>

5.12.3 Remove Arkeia User Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -user -delete -D [PARAMETERS LIST]

DESCRIPTION

This command removes an Arkeia user.

OPTIONS

See global help

PARAMETERS LIST

name Name of the user

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero.
See errors table, arkc -usage -debug -errors

EXAMPLES

To delete the user 'support45'
arkc -user -delete -D name=support45

For more information: arkc -getinfo -user -delete -property <parameter>

5.12.4 Arkeia User Modification Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -user -modify -D [PARAMETERS LIST]

DESCRIPTION

This command modifies the settings of an Arkeia user.

OPTIONS

See global help

PARAMETERS LIST

name Name of the user (ex. name=support45)

[OPTIONAL]

role User's role (ex. role=OPERATOR). To retreive the complete role list, try 'arkc -user -role'

email If you want to use the Arkeia email feature (receive an email after a backup), you have to set the user's email address.

Passwd To be allowed to set a new password, you must enter the old user's password. The new password value is set via 'newpasswd' parameter

newpasswd To set a new user's password. You have also to set the 'vnewpasswd' to confirm the new value

vnewpasswd (See 'newpasswd' parameter)

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To modify a user's role.

arkc -user -modify -D name=support45 role=ADMINISTATOR

For more information: arkc -getinfo -user -modify -property <parameter>

5.12.5 List of Arkeia User Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -user -list -D [PARAMETERS LIST]

DESCRIPTION

To get a user's list. If no additional argument is used, the name of all the existing Arkeia users is displayed. Adding a 'name' parameter, all the user settings are displayed.

OPTIONS

See global help

PARAMETERS LIST

name Name of the user. You get the user's settings list

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

To list all the existing users
arkc -user -list

To display settings of the Arkeia user 'support45'
arkc -user -list -D name=support45

For more information: arkc -getinfo -user -list -property <parameter>

5.13 Arkc Object Backup Commands Help

5.13.1 Main Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -bkpobj -<action> -D [PARAMETERS LIST]

DESCRIPTION

Using this part of the arkc command line mode, you perform a backup of a data stream. This operation is also called an object backup. The data sent to the standard input is backed up. For example, this command can be used backing up the result of a defined shell script.

action list
start

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS

See the global help

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific online help. Try, 'arkc -usage -bkpobj -<action>'

For more information: arkc -usage -bkpobj -<action>

5.13.2 Start an Object Backup Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -bkpobj -start [-/-Iinputfile] -D [PARAMETERS]

DESCRIPTION

This command performs a backup based on a data stream oriented approach. You backup, directly through the standard input, a stream of information. This feature implements the "push" functionality. However, you could also select to back up an an existing file(-I option). If you choose the standard input, you tag the end of the backup by entering the two caracters {Enter}, {ctrl^d}.

OPTIONS

-I By opposite to the common use of this option, in this case, '-I' sets a file containing the data to back up. Syntax is '-Ifile'. Otherwise, you have to set - option selecting the standard input.

See global help for other options

PARAMETERS LIST

pool (or plid) ame (resp. identifier) of the pool containing tape(s) to use

drivepack (or dkid) Name (resp. identifier) of the drivepack containing drive(s) to use

tag You MUST set a tag to the object backup. This tag is requested to perform a restoration

[OPTIONAL]

retention Retention date of the data backed up during this job. This parameter MUST be completed by the 'retunit' parameter.

1, 2, 3, ..., n

retunit Unit for the retention time (see 'retention' parameter).

DAY
WEEK
MONTH
YEAR

comment Add a comment

[EXPERT]

policy Tape policy to use. Arkeia selects a new tape for the current backup or complete a

written tape, available in the selected pool, depending on the choosen policy. By default, 'policy' has the value COMPLETE.

COMPLETE Complete written tape
NEW se a new tape

RETURN VALUE
On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES
If you want to backup the result of a 'ls -lR' command. ls -lR | arkc -bkpobj -start - -D pool=MyPool rivepack=MyDrivepack tag=/backup/ls_lR

For more information: arkc -getinfo -bkpobj -start -property <parameter>

5.14 Arkc Object Restore Commands Help

5.14.1 Main Help

Arkeia command line mode.

SYNOPSIS
arkc [OPTIONS] -rstobj -<action> -D [PARAMETERS LIST]

DESCRIPTION
To control restoration operations of backups done using the object backup mode.

action list
start

For examples of use, see EXAMPLES section at the end of this help.

OPTIONS
See global help.

PARAMETERS LIST

Each command has its own parameters list. You should consult the specific help. Try, 'arkc -usage -rstobj -<action>'

For more information: arkc -usage -rstobj -<action>

5.14.2 Start an Object Restore Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -rstobj -start [-Ooutputfile] -D [PARAMETERS]

DESCRIPTION

This command restores a data stream backed up previously using the arkc object mode (See -bkpobj). By default, the data flow is sent directly to the standard output. However, you could specify an output file (-O option). If the file doesn't exist before, it is created.

OPTIONS

-O By opposite to the common use of this option, in this case, '-O' option sets a file to record the restored data stream. Syntax is '-Ofile'.

See global help for other options.

PARAMETERS LIST

bksid (or tag) Backup identifier of the data to restore

tag (or bksid) Tag associated to the backed up data

[OPTIONAL]

drvname (or drvid) If you use Arkeia in a single drive configuration, you have to indicate a drive to use.

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

EXAMPLES

If you want to restore the data stream backed up with '/backup/ls_lR' tag.
arkc -rstobj -start -D tag=/backup/ls_lR drvname=MyDrive

5.15 Arkc Debug Commands Help

5.15.1 Configuration Information Help

Arkeia command line mode.

SYNOPSIS

arkc [OPTIONS] -debug -who

DESCRIPTION

This command loads the preference file and displays login information

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors

5.15.2 Input File Validation Help

Arkeia command line mode

SYNOPSIS

arkc [OPTIONS] -debug -input -Iinputfile

DESCRIPTION

This command loads the input file and displays loaded information. Very usefull to check a parameters input file

RETURN VALUE

On success, zero is returned. If an error occurs 'arkc' returned a value different than zero. See errors table, arkc -usage -debug -errors