



## Archiware P5: Technical Guide

## **P5 Archive with LTFS**

Step-by-step configuration of P5 Archive





More guides like this one available here:

archiware.com/ manuals In this technical guide we install Archiware P5 on macOS, and add a stand-alone LTO drive, label a tape using the LTFS tape format and create an 'Archive Plan' ready for selection of data to be archived to the tape.

## Download installer

https://www.archiware.com/download-p5

$(\mathbf{P}_{5})$	ARC		RE
Installer		Extras	
P5-706-Install	HTML Important Notes.html	B2Go-Workstation	PDF= P5 Companion.pdf

Run Installer until completed.

0	🥪 Install Archiware P5
	The installation was completed successfully.
<ul> <li>Introduction</li> <li>Read Me</li> <li>License</li> <li>Destination Select</li> <li>Installation Type</li> <li>Installation</li> <li>Summary</li> </ul>	The installation was successful. The software was installed.
5	Go Back Close

P5 starts and opens automatically in the browser.



Begin with default user admin and password admin.

Enter License

	127.0.0.1:8000/lexxa	pp/1643625340	Ċ		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Home Eackup	Archive Restore			Jobs/Logs	<b>€</b> ▼
MY INSTALLATION					
🕑 Overview	Welco	me to Archiwar	e P5		
License Manager	Please e	inter a trial or a purchased lice	INSE.		
📴 Log Out admin					
		Enter License			
-					

Or request trial license within the P5 interface.

					127.0	0.0.1:8000/le	xxapp/1643625340		Ċ		<b>()</b>
Home				ze Archive						Jobs/Logs	<b>₽</b> 5 ▼
MY INSTALLATION	Licen	ise Manager									
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SESSION											
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	E	Add n	nanually	Import fron	n File	Delete	_	_	4	Archiware Portal	Get Trial License

Select Archive in the top row.



Select Storage Manager in the left column.

Select tape drive tab.

Select **New Tape Drive** to connect the LTO drive (powered on and visible in the OS, driver might be required depending on brand and model).



DO NOT LABEL IN THIS DIALOG IF YOUR WANT TO USE LTFS FORMAT.

Preparing the me	dia (Labeling)
assigned to each o	the newly configured drive for backup and archiving, a label has to be of the media (e.g. LTO) in the drive. The process of writing the label onto the d as Labeling. The labeled medium is called a Volume.
Warning: Labelin	g a medium will overwrite the existing data.
.abel media for:	
	OBackup
	OArchive
	o do not label
	Don't Label

Once the drive is connected within P5 go to **Pools** in the left column.

Image: None     Image: None       Home     Home       Backup     Backup       Backup     Backup       Backup     Backup       Backup     Pools       Backup     Name       Image: Name     Name	S Synchronize	Restore Media t	Usage For.	Cloud servi.,, Ap	Jobs/Log		Drives
Getting Started      Name      Overview      Manual Archiving      SOURCE      Clients	Description	Media t.	Usage For.	Cloud servi Ap	prox. used capa	Free Volu	Drives
€ Overview Manual Archiving SOURCE ■ Clients	Description	Media t.	Usage For.	Cloud servi Ap	prox. used capa	Free Volu	Drives
Manual Archiving     SOURCE     Glients							
SOURCE							
E Clients							
TARGET							
EE Storage Manager		Click	New on the bottom lef	t			
IOB SCHEDULE							
🛱 Archive Plan							
MEDIA MANAGEMENT							
🖷 Pools							
La Volumes							
🛲 LTFS Exchange							

Select **New** to create a new storage Pool (that will hold all the tapes that will be written later).

Name the Pool.

For an Archive using LTFS format select **LTFS**.

•	127.0.0.1:8000/lex	xapp/1643627546/p	p1/r47/48	
General Setup Legacy	Setup Mode Addi			
Pool	Description		Status	
ArchiveLTFS			Enabled	×
Usage				
A pool is a storage destin volumes of a fixed size. C Depending on the storage	ontainer based pools c	onsist of a single vo	lume that can gro	
Use for:	Archive	*		
Media type:	Таре	~		
LTO recording format:	O P5 native O LTF	ic 🗿		
1. I.				
Note: These paramete	rs may only be modified	d while no volumes i	have been create	d.
Drives				
Use listed drives only:				
Drive name:	· · · · · ·	+		
				Close Apply
				and a second sec

After the Pool is created a tape has to be labeled.

••• <> 127.0.0.1:8000/lexxapp/1643627546  $(\widehat{\boldsymbol{x}})$ C A Overview Tape Libraries Tape Drives Container Storage Cloud Service Getting Started
 Overview
 Manual Archivir Media t... Drive ty... Cleaning De Operation Vendor Product Serial n... Firmware Name awst0 E4J6 IBM-ULTRIUM-HH TAPE I TO 6 ULTRIUM 10WT012... IRAA TARGET Storage Man JOB SCHEDULE Archive Plan LTFS Exchange Label Mount/Unmount Import ■ New Tape Drive

Go to Storage Manager select LTO drive and Label (bottom of P5 interface).

Select the Drive your just created.

Select Label.

Attention: Labelling ERASES all data on the tape.

Drive	Status
Pool Selection: ArchiveLTFS	Schedule Start now:
Possible Exceptions	Start time: 12:49
C Erase or recycle Volume	e(s)

You can watch the progress in the Job Monitor.

0 0 0			127.0.0.1:8000/lex	xapp/164362	7546/p1/r66	69/670				
Monitor Jobs Any Archive Backup Backup2Go Synchronize Restore	Queued Jobs		Scheduled by Time	Client	Level	Start Time	Job 1			
Others     Others     Any     Iocalhost	Running Jobs	t3 ₪ ▶ Drive	Plan Name/Operation Labeling for pool ArchiveL awst0: mounting cartridge	Client localhost	Level	Start Time ↑ 31.Jan 1	Job 10001			
	Finished Jobs		Plan Name/Operation	Client	Level	Size	Start Time	End Time ↓	Duration	

When done go to **Archive Plan** in the left column and select **New**.

••• <>					127.0.0.1:8000	/lexxapp/1643627546	Ċ		
Home	Backup	Backup2Go	Synchronize	Archive	Restore			Jobs/Logs	
ARCHIVE	Arch	ive Plan							
Getting Started		ID	Description		Auto start	Target Storage	Target Index		
Overview									
🔒 Manual Archiving									
SOURCE									
Clients									
TARGET									
🔠 Storage Manager				🔍 То	create your first a	rchive plan, click New c	on the bottom left, or use the	e Setup Assistant.	
JOB SCHEDULE									
🖗 Archive Plan									
MEDIA MANAGEMENT									
Pools									
🕒 Volumes									
📇 LTFS Exchange									
ADVANCED OPTIONS		New	Setup Ass	istant					

Select Target Storage Pool (the Pool you just created) to write to.

For preview and metadata options see the manual on page 226 (the manual can be reached from the P5 Menu in the upper right corner).

Plan	Descri	ption		Status		Auto start
	Archiv	e2LTFS		Enabled	*	Disabled 👻
Data						
Та	irget storage:	ArchiveLTFS	~	A set of local ta service . More C		disk volumes or an online cloud s
	Target index:	Default-Archive	*	The target data	base f	or indexing archived data
	File filter:			Use a filter to e	xclude	data from archiving.
Access						
Lis	t of group(s):			A list of valid gr If empty, all gro		o allow access to this archive plan. e authorized.
Se	elect a group:		~	- +		
						Close Apply

If you want to see thumbnails and proxy clips in the archive index you need to configure them in the archive plan.

General	127.0.0.1:8000/lex Indexing Auto Archive Options			tadata Expert Se	tti
Plan	Description	Status		Auto start	
	Archive2LTFS	Enabled	*	Disabled 👻	
User Defi	ned Preview Generators				
Туре	Extensions		Script		Timeout
New Third part	Click New to create a new preview co Edit Delete	onverter.			
	eg: ffmpeg version 3.2.1 Copyright (c) 2 ick: Version: ImageMagick 7.0.8-28 Q16			ttps://imagemagick.or	
				Close	Apply

Select **New** followed by ffmpeg for video proxy clips. You can either take the default settings or change according to your needs.

Repeat step selecting ImageMagick for still image thumbnails.

When configured it should look like this.

Plan Description			Status		Auto start	
	Archive2LTFS		Enabled	~	Disabled 👻	
User Defined	Preview Generato	rs				
Туре	Extensions				Timeout	
FFmpeg	.mp4 .mxf .avi .mov .dv .mp2 .mpeg .mts .mkv	ffmpeg -i SRCPATH -vf scale=320:trunc(ow/a/2)*2 -pix_fmt yuv420p -b:v 256k -b:a 64k -profile:v baseline -movflags +faststart -y -f mp4 -loglevel fatal -level 3.0 -vcodec h264				
ImageMagick .bmp .dcr .dcx magick convert -quiet SRCPATH -thumbnail x256 .hdr .jpg .jpeg .mrw .mtv .nef .orf .otb .pbm .pcx .pef .pgm						
New	Edit Delete					
Third party p	lugins					
20000000000000000000000000000000000000	Managan Sangera da Sang	2.1 Copyright (c) 200 gick 7.0.8-28 Q16 x8		11000101000		org
					Close	Apply

For the metadata import option see here:

https://www.archiware.com/sample-scripts/importing-metadata-p5-archive

Once the first files got archived browse the catalog of archived files going to **Restore** in the top row followed by selecting **Archive** in the left column.