



# QLSArchive ADA Manual

QLS Distribution Ltd

Version 2.0.1

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# Preface

## About This Manual

This document describes the installation and configuration of QLSArchive along with the setup of CatDV/ADA.

## Typographic Legend

The following typography that is used in this document for better clarity and simplicity.

Font	Description and Example
<b>bold</b>	Emphasized text <b>Example:</b> The CatDV Server <b>must</b> be running for QLSArchive to connect to it.
<i>italic</i>	Names of directories and files <b>Example:</b> The logs can be found in <i>logs/QLSArchive.log</i>
<b><i>italic, bold</i></b>	Information or elements displayed on the user interface <b>Example:</b> Click <b><i>Test</i></b> to test the connection to CatDV



This icon signifies a suggestion or general note.



This icon signifies a tip that may be useful.

## Introduction

Backing up data is an important task that is sometimes overlooked because it requires extra work and additional systems to monitor and learn. QLSArchive integrates with Catdv to provide an easy way to initiate archive requests and track the progress to ADA.

## Requirements

### *QLSArchive*

- CatDV Server 6.9.4+
- CatDV Worker 6.1.5+
- Mac OS X Intel 10.8.3+

### *Archivist*

- CatDV Pro/Pegasus 10+ (Version 11.1.1 for full card based media support)

### *Archive System*

- Atempo Digital Archive 3.7+

## CatDV Clip Types

Imported (analysed) assets to CatDV are classified with a clip type e.g. master clip/non-media/metaclip etc

### *Unsupported Clip Types*

- Secondary
- Sequence
- Clip Usage
- Image Sequence
- URL
- Folder



Sub clips and sequences are metadata objects referring to physical clips, select the physical clips to submit for archive.

## Card Based Media

Card based media appear as metaclips when imported to CatDV Pro/Pegasus and may be submitted for archive with certain provisos.

The behavior of CatDV Pro/Pegasus prior to 11.1.1 only produced metaclips which contained enough information for presentation within CatDV e.g. some of the card content was omitted from cataloging. Whilst such metaclips provide enough information to achieve a successful copy in archive, the whole card structure cannot be reconstructed due to missing elements. If you wish to repurpose such items in an NLE after restore, errors may occur.

The introduction of CatDV 11.1.1 handles card based media with a new technique during import. These previously discarded items are stored in a special clip with type of 'Card Manifest'.



It is recommended that you perform archive/retrieve tests on your media and subject the retrieved card structure for re-purposing in an NLE if your workflow requires this functionality.

## File and Path Naming

The Macintosh environment permits the use of non-alphanumeric characters in filenames and paths e.g. colon ':'. This should be avoided as this can cause errors during the archive/retrieve process.

CatDV provide some [guidance on their web site](#) on file and path naming.

# ADA Configuration

ADA needs to be configured with a task that can be used by QLSArchive.

The Server ID and Web service host/port/key are required when setting up QLSArchive.

## Task

For brevity the root path is listed below for both operating systems that is to be used in the XML fields. Choose the path that matches your operating system and replace {user} with the user directory that will be running the QLSArchive integration.

### Root path

- Mac - /Users/{user}/Library/Application Support/QLSArchive
- Windows - C:/Users/{user}/AppData/Roaming/QLSArchive

Click **Tasks** > **Tasks** > + to create a new task.

The screenshot shows the 'Properties' dialog box for a task named 'qls\_t'. The dialog has a title bar with the text 'Properties' and 'qls\_t'. Below the title bar are several icons: a play button, a gear, a document, a plus sign, a checkmark, and a close button. The main area of the dialog is divided into two sections. The top section contains fields for 'Template' (set to 'XML ingest'), 'Task Name' (set to 'qls\_t'), 'Description' (set to 'QLSArchive task'), and 'Email Comment'. Below these fields is a checkbox labeled 'Task not active'. The bottom section is titled 'Configuration' and contains several sub-sections: 'Storage Platform' (set to 'WIN-NPPOER55EK8 (Windows)'), 'XML File Directory' (set to 'C:\Users\Administrator\AppData\Roaming\QLSArchive\ADA\_Ingest'), 'Recursive Scan' (unchecked), 'Translator' (unchecked), 'XML Processing Report' (unchecked), and 'XML Error Report' (unchecked). Each sub-section has a corresponding text field and a button to open a file explorer.

Figure 1. ADA Task

- **Template** - XML Ingest
- **Task Name** - qls\_t
- **Description** - QLSArchive task
- **Storage Platform** - [pick a platform, in this example the platform is the one that is also hosting

QLSArchive]

- **XML File Directory** - {root path}/ADA\_Ingest
- **XML Processing Report** - {root path}/ADA\_Report
- **XML Error Report** - {root path}/ADA\_Error

## AMM Default Setting

If AMM is used then a default setting needs to be changed to allow for the tape barcodes to be visible in CatDV.

Click **Server > Default Settings** and change **Media > View Media List** value to **yes**

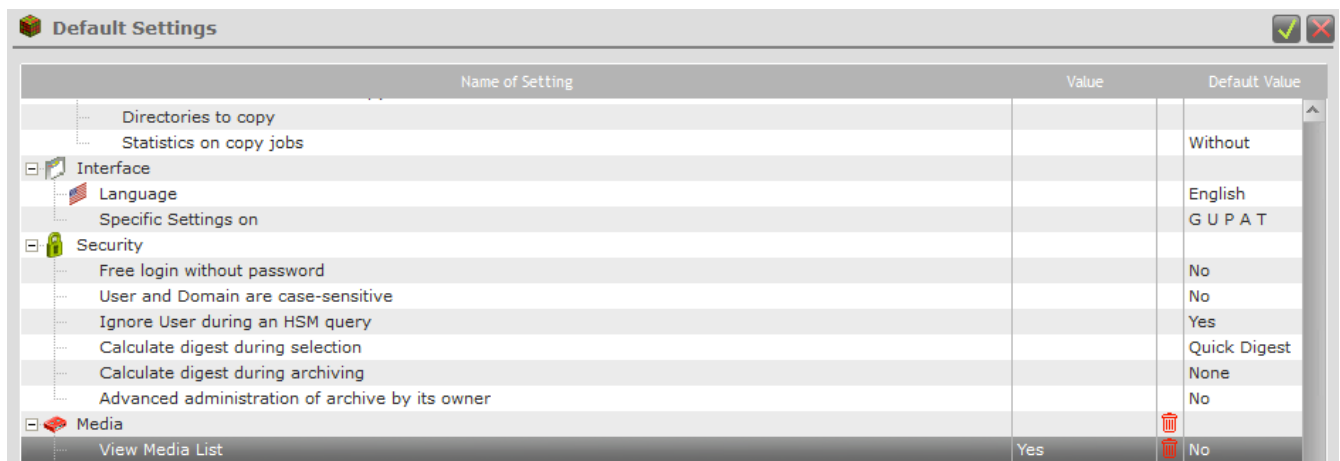


Figure 2. ADA Default Setting

## Server ID

Launch Atempo Digital Archive User Interface and select **i** (top right corner) to reveal the server ID.

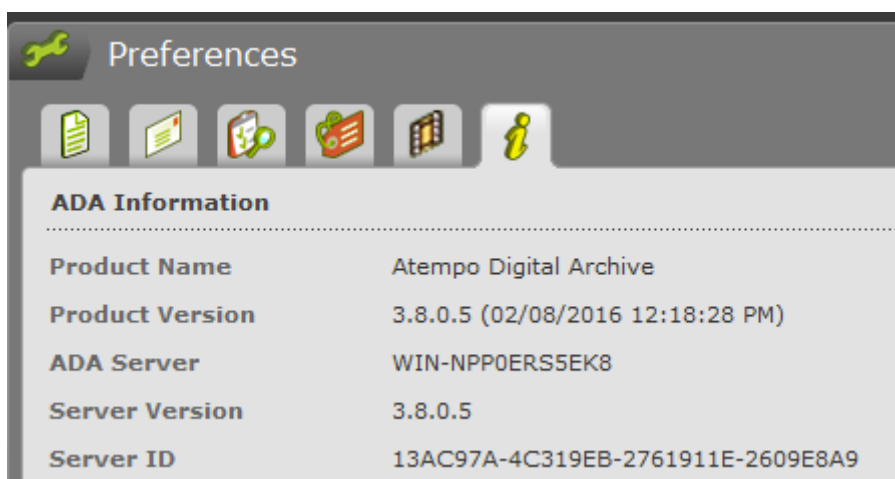


Figure 3. ADA User Interface Info

## Web Service

The web service Host, Port and Key may be revealed by running an ADA utility on the ADA Server (the machine which houses the ADA database).

On the Atempo Digital Archive Server:

[Windows] Choose Start - All Programs-Atempo Digital Archive - Atempo Digital Archive Environment Command Prompt.

[Mac OS-Unix] Open a terminal in the directory \$ADA\_HOME\$/Binary and set the Atempo Digital Archive environment by running the . .ADA.sh command.

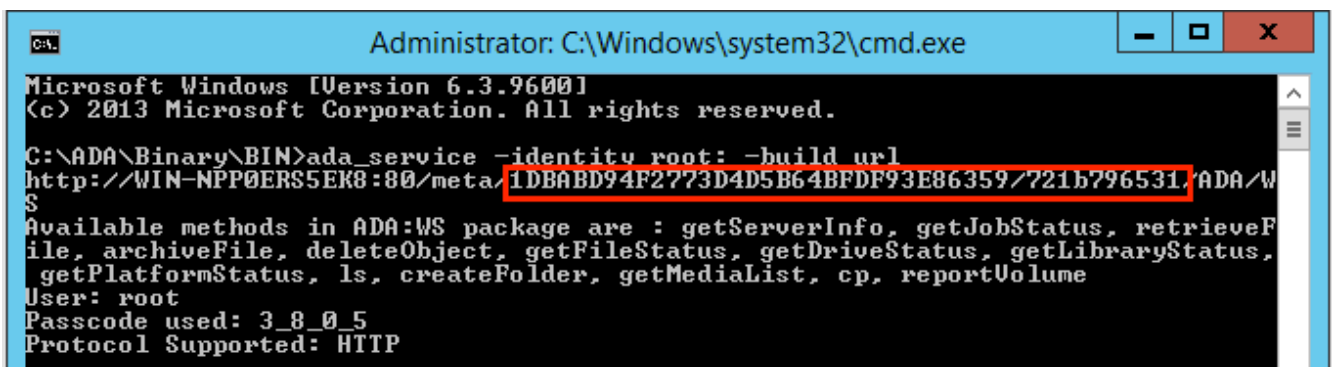
Type the command:

```
ada_service -build_url -identity {user}:{password}
```

The command returns the URL corresponding to your environment.

— Atempo documentation

The following example is the result of running the commands on a Windows ADA Server:



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\ADA\Binary\BIN>ada_service -identity root: -build url
http://WIN-NPP0ERS5EK8:80/meta/1DBABD94F2773D4D5B64BFDF93E86359/721b796531/ADA/W
$
Available methods in ADA:WS package are : getServerInfo, getJobStatus, retrieveF
ile, archiveFile, deleteObject, getFileStatus, getDriveStatus, getLibraryStatus,
getPlatformStatus, ls, createFolder, getMediaList, cp, reportVolume
User: root
Passcode used: 3_8_0_5
Protocol Supported: HTTP
```

Figure 4. ADA Service

The area highlighted in red is the web service key that is needed in the QLSArchive configuration.

# QLSArchive

## Installation

QLSArchive ADA can be installed on to a Mac by mounting the installation DMG bundle and dragging and dropping the QLSArchive ADA app to the Applications directory.

## File Locations

The following lists the locations for Mac and Windows where QLSArchive stores files.

### License

- Mac - /Users/Shared/QLSArchive/
- Windows - C:/ProgramData/QLSArchive/



The license file is called *license* without any extension.

### Application Data

- Mac - `/Users/{user}/Library/Application Support/QLSArchive/`
- Windows - `C:/Users/{user}/AppData/Roaming/QLSArchive/`

### Logs

- Mac - `/Users/{user}/Library/Logs/QLSArchive/`
- Windows - `C:/Users/{user}/AppData/Roaming/QLSArchive/logs/`



The current log is *QLSArchive.log*, archived logs are stored in date formatted directories [e.g. 2016-10] and are deleted after 30 days.

## CatDV

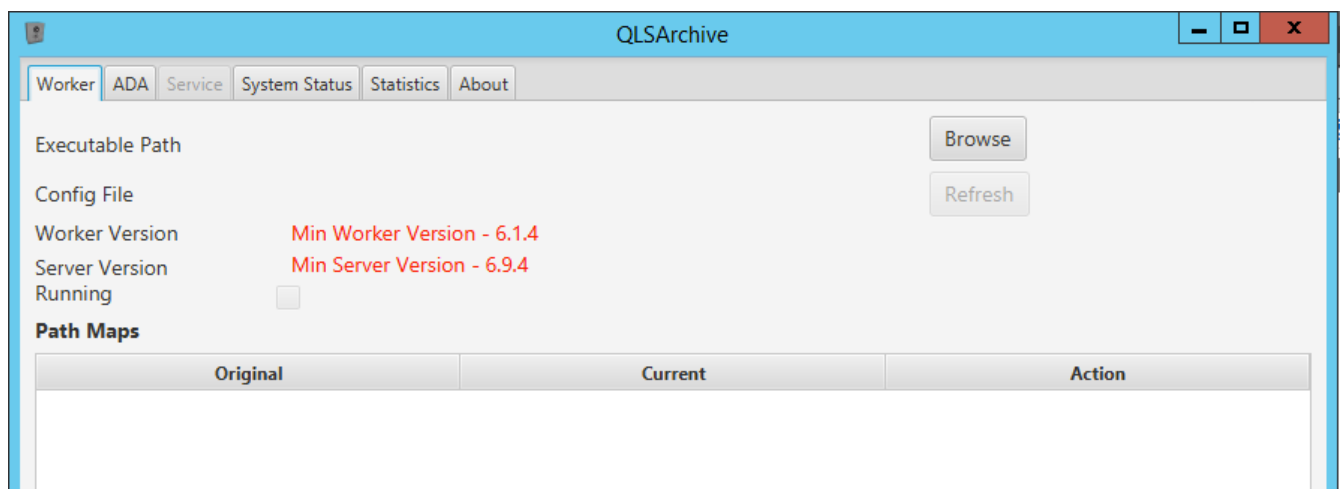


Figure 5. QLSArchive CatDV Blank

Item	Description
<b>Executable Path</b>	Path to catdv executable
<b>Browse</b>	Open a browse dialog to locate the catdv executable and populate the screen
<b>Config File</b>	Location of CatDV's configuration file
<b>Refresh</b>	Refresh the information on screen from the worker
<b>Worker Version</b>	Version of the CatDV worker
<b>Server Version</b>	Version of the CatDV server that the worker is connected to
<b>Running</b>	Whether the worker is running or not



Item	Description
<b>Path Maps</b>	List of path maps that are found in any task <b>Original</b> - Original path <b>Current</b> - New path <b>Action</b> - Action where this path map was detected

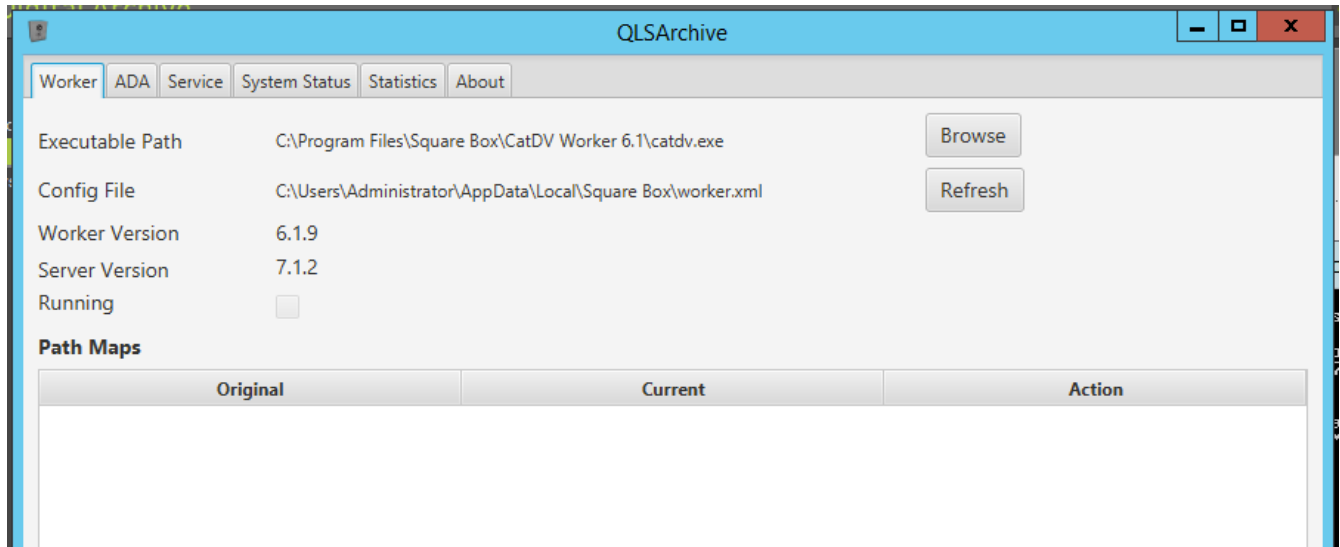


Figure 6. QLSArchive CatDV Populated

## ADA

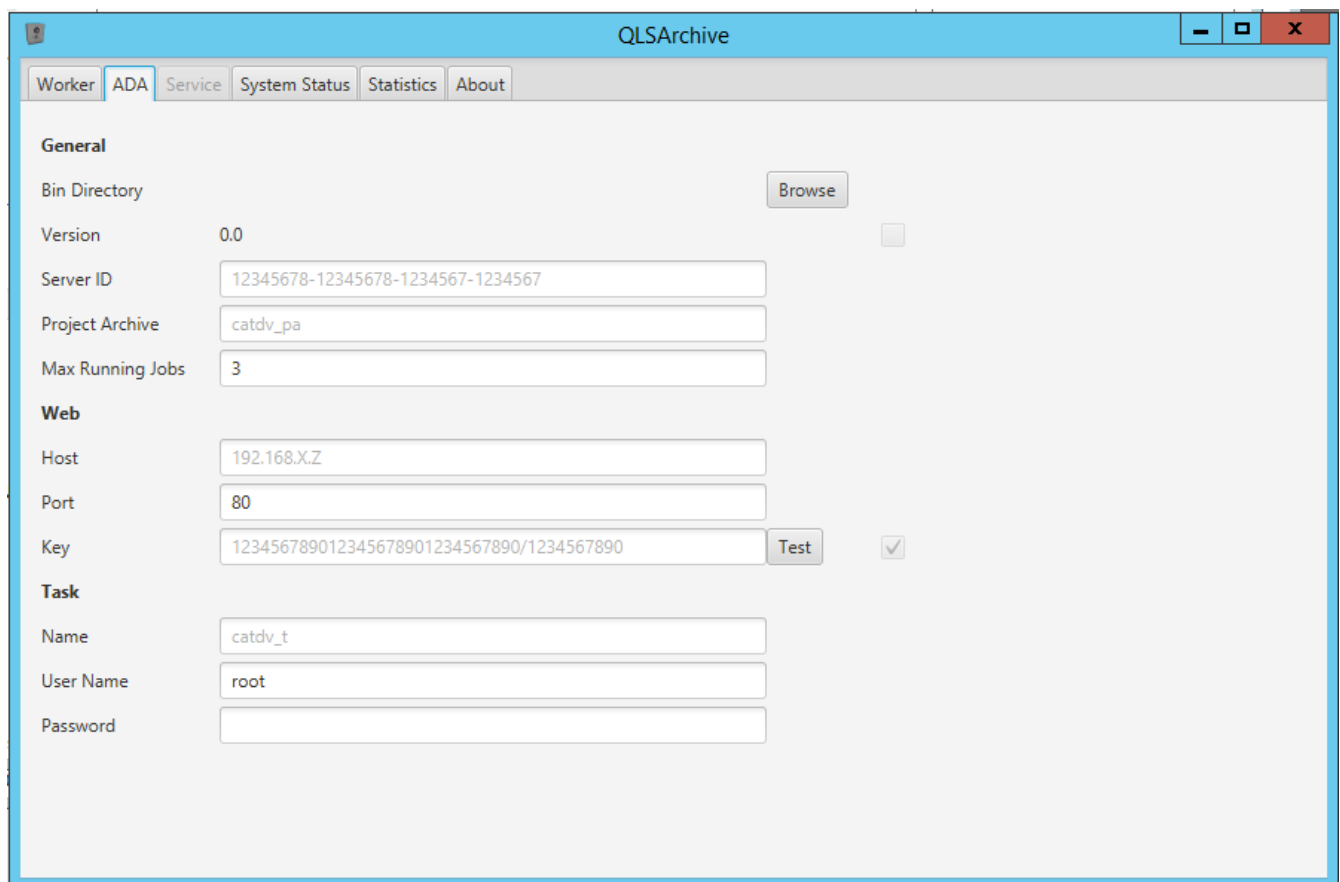


Figure 7. QLSArchive ADA Blank

Item	Description
<b>General</b>	
<b>Bin Directory</b>	Location of the bin directory
<b>Browse</b>	Browse for the bin directory which will populate the screen
<b>Version</b>	Version of ADA in the bin directory
<b>Server ID</b>	Server ID as described in <a href="#">Server ID</a>
<b>Project Archive</b>	Name of the project archive that will be used for archival
<b>Max Running Jobs</b>	Number of max running jobs. QLSArchive will submit jobs upto this limit to prevent ADA being overwhelmed.
<b>Web</b>	
<b>Host</b>	Host of the ADA server
<b>Port</b>	Port to connect on
<b>Key</b>	Key as described in <a href="#">Web Service</a>
<b>Task</b>	
<b>Name</b>	Name of the task setup in <a href="#">ADA Configuration</a>
<b>User Name</b>	User to run the task as
<b>Password</b>	Password to authenticate the user to run the task



If the ADA version changes then the Web Key will also change which must be updated in QLSArchive accordingly.

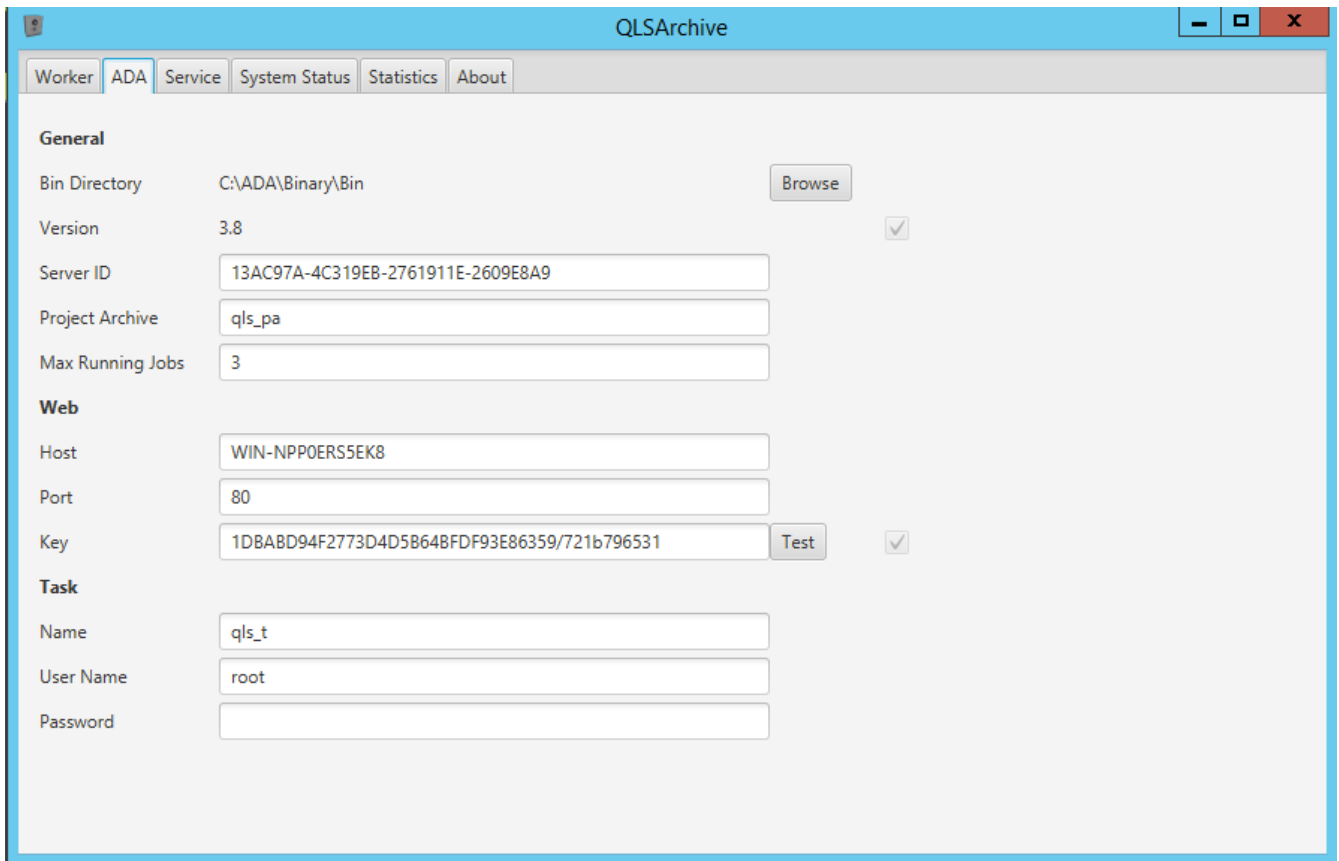


Figure 8. QLSArchive ADA Populated

## Service

QLSArchive uses services to action the different tasks, which can be controlled independently. This allows for example the Archive service to be stopped to allow the archive system to only process retrieve requests.

### General

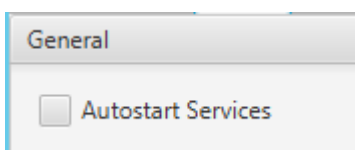


Figure 9. General

- **Autostart Services** - Whether the services should start on application launch if CatDV Worker/ADA is valid

## Engine

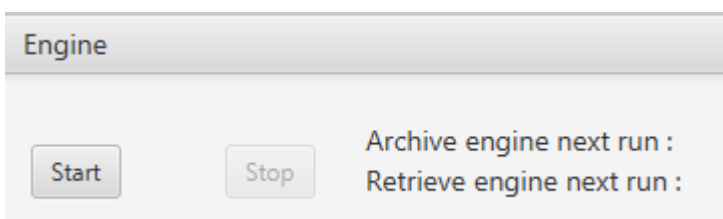


Figure 10. Engine Service

- **Start** - Start the engine service
- **Stop** - Stop the engine service
- **Archive engine next run** - Timer of next/current archive run
- **Retrieve engine next run** - Timer of next/current retrieve run

## Archive/Retrieve

The screenshot shows a web interface for managing services. It is divided into two main sections: 'Archive' and 'Retrieve'. Each section contains a 'Start' button, a 'Stop' button, an 'Interval' dropdown menu (currently set to '1'), a 'Batch size' input field (currently set to '30'), and a label indicating the next run time. The 'Archive' section label is 'Archive service next run :' and the 'Retrieve' section label is 'Retrieve service next run :'. The interface has a light gray background with white text and buttons.

Figure 11. Archive/Retrieve Service

- **Start** - Start the service
- **Stop** - Stop the service
- **Interval** - How often should the service run in minutes [default - 5]
- **Batch Size** - How many clips to submit in one go
- **Archive/Retrieve service next run** - Timer of next/current archive/retrieve run

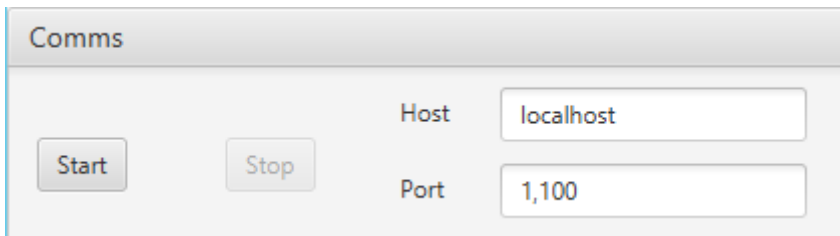
## Purge

The screenshot shows a web interface for the 'Purge' service. It contains a 'Start' button, a 'Stop' button, and a label indicating the next run time: 'Purge service next run :'. The interface has a light gray background with white text and buttons.

Figure 12. Purge Service

- **Start** - Start the service
- **Stop** - Stop the service
- **Purge service next run** - Timer of next/current purge run

## Comms



The image shows a window titled "Comms". It contains two buttons, "Start" and "Stop", on the left. To the right, there are two input fields: "Host" with the value "localhost" and "Port" with the value "1,100".

Figure 13. Comms Service

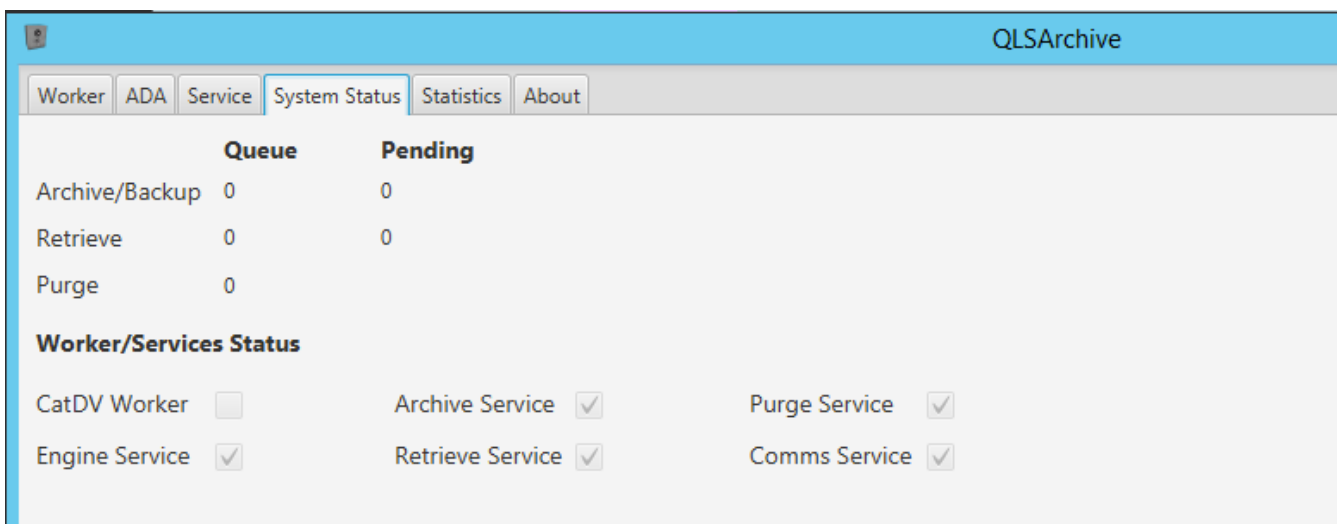
- **Start** - Start the service
- **Stop** - Stop the service
- **Host** - IP of the local machine network where it can be contacted by archivist machines
- **Port** - Port that the archivist machines can use to access QLSArchive



Both the **Host** and **Port** are required before Comms can be started

## System Status

Shows the count of CatDV clips in various states and whether the worker/services are running.



The image shows a window titled "QLSArchive" with tabs: "Worker", "ADA", "Service", "System Status" (selected), "Statistics", and "About". The "System Status" tab displays two sections:

	Queue	Pending
Archive/Backup	0	0
Retrieve	0	0
Purge	0	

Below this is the "Worker/Services Status" section:

CatDV Worker	<input type="checkbox"/>	Archive Service	<input checked="" type="checkbox"/>	Purge Service	<input checked="" type="checkbox"/>
Engine Service	<input checked="" type="checkbox"/>	Retrieve Service	<input checked="" type="checkbox"/>	Comms Service	<input checked="" type="checkbox"/>

Figure 14. System Status

## Statistics

Statistics updates every 1 minute. Statistics older than 30 days are removed daily.

Date	Type	No. Of Files	Total Size	Avg Size	Avg Time
26-Oct-2016	BACKUP	1	10 KB	10 KB	27 minutes 40 seconds

Figure 15. Statistics

## Archivist Tools Menu

The archivist is responsible for initiating archive related operations, tracking the progress and

investigating any errors.

Installing the Archivist tools will add several entries to the **CatDV > Tools** menu.

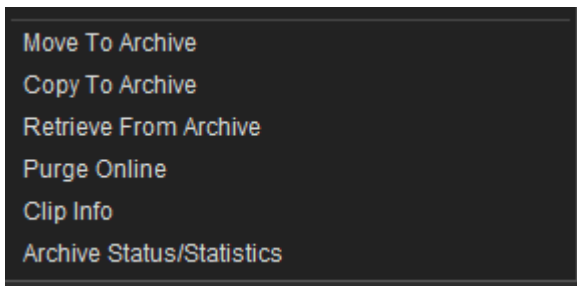


Figure 16. CatDV Tools Menu

The archivist tools perform validity checking and provide feedback to the user to ensure that any potential issues are dealt with before submission. This means that the valid clips that are submitted will have a high probability of being successful.

Feedback is in the form of several tabs

- **Valid (x)** - Shows valid clips if any with the total in brackets
- **Invalid (x)** - Shows invalid clips if any with the total in brackets
- **System Status/Statistics** - See [Archive Status/Statistics](#)

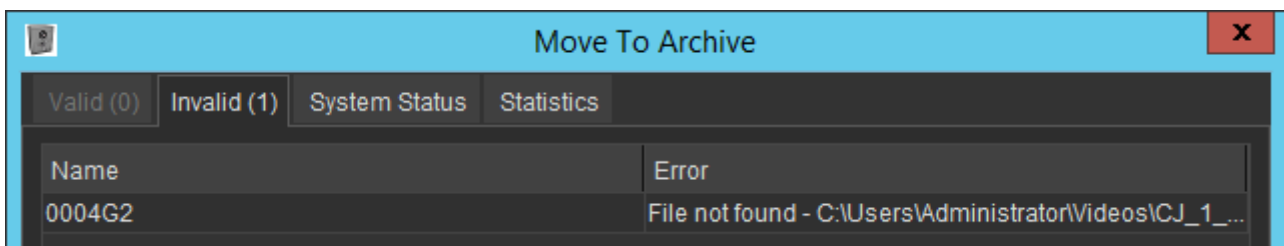


Figure 17. Example Feedback



All tools apart from **Archive Status/Statistics** require 1 or more clips in CatDV to be selected. This can be achieved through a Server Query or an open catalog.

## Connecting To QLSArchive

If the archivist has not yet connected or is unable to connect to QLSArchive then the Comms window is shown.

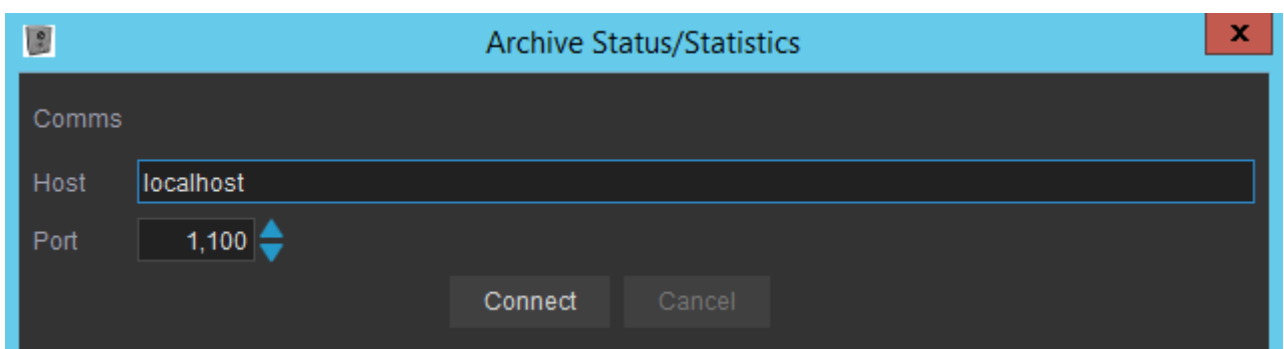


Figure 18. Comms Window

Ensure that the correct **Host/Port** is entered and click **Connect**. The client will attempt to connect to QLSArchive.

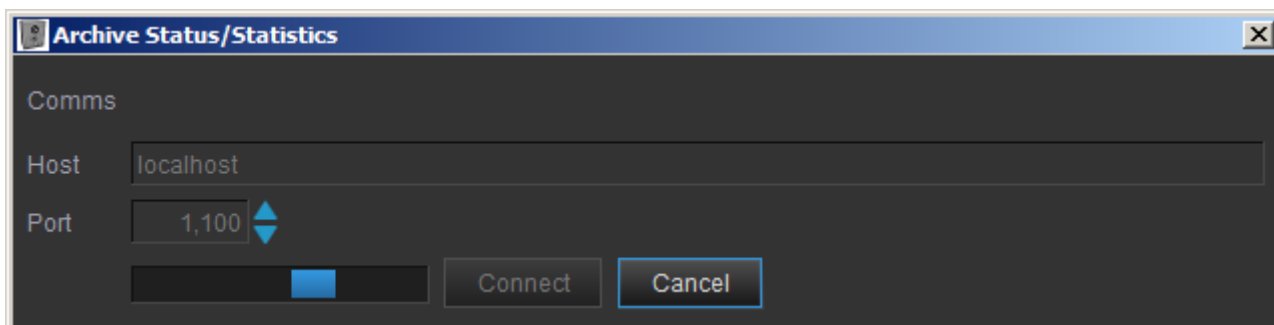


Figure 19. Comms Attempting Connection

If the connection is successful then the Comms window is replaced with the screen of the function that was chosen by the user.



If the Comms is unable to connect then check the **Comms** service in QLSArchive is started and the **Host/Port** are correct.

## Move To Archive

This requests the media to be copied to ADA and once confirmed then the online media will be deleted.

Move/Copy To Archive actions show an **Archive Target** drop down in the bottom left of the screen, this is populated by the **Project Archive** in **QLSArchive > ADA**.

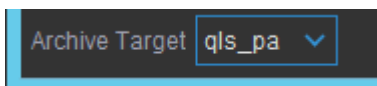


Figure 20. Move/Copy To Archive - Archive Target



Move/Copy To Archive can only be carried out on clips that are online on the CatDV Worker.

## Copy To Archive

This requests the media to be copied to ADA and leaves the original online.

## Retrieve From Archive

This requests the media to be retrieved from ADA to the original location.



Only clips that have been previously moved/copied to ADA can be retrieved.

# Purge Online

This requests the online media to be deleted.



Only clips that have been previously moved/copied to ADA **and** are online on the Worker can be deleted.

## Clip Info

This shows the remote ID, media path and archive target along with the archive history of the clip[s] selected.

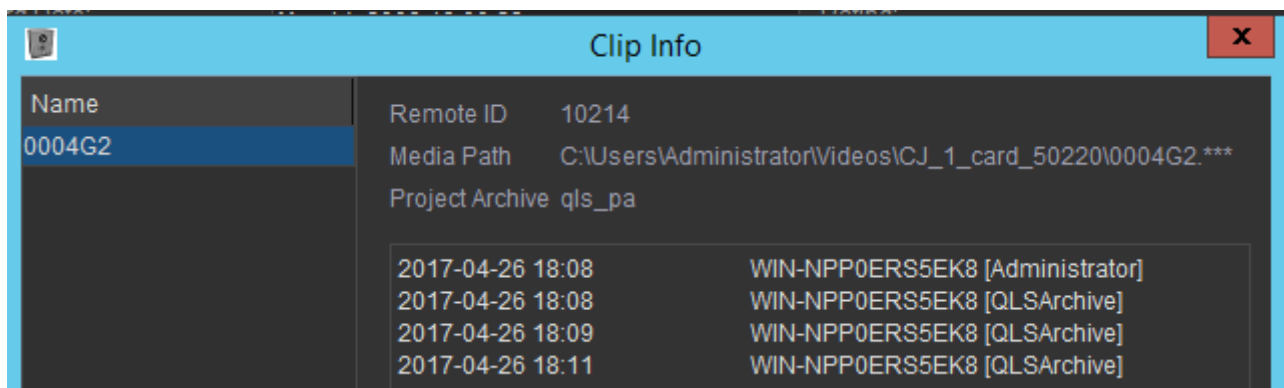


Figure 21. Clip Info

## Archive Status/Statistics

This shows only the QLSArchive system status and statistics tabs.

**System Status** - Count of clips in various states along with what QLSArchive services are running

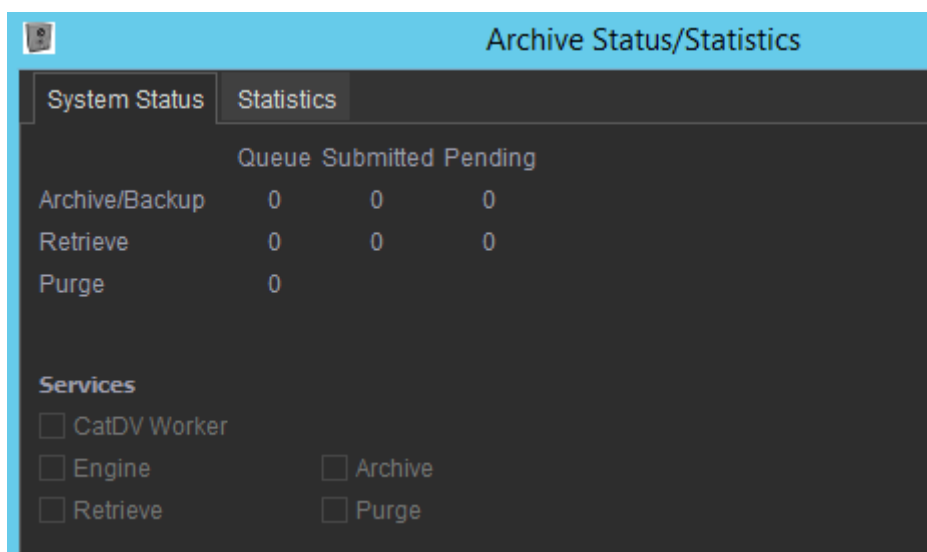


Figure 22. System Status

**Statistics** - statistics of archived/backed up/retrieved clips for the last 30 days



Archive Status/Statistics					
System Status		Statistics			
Date	Type	Number	Total Size	Avg Size	Avg Time
26/04/17	BACKUP	1	15.8 MiB	15.8 MiB	43 minutes 36 seconds
27/04/17	BACKUP	1	18.9 MiB	18.9 MiB	5 minutes 27 seconds
27/04/17	ARCHIVE	2401	33.7 MiB	14.4 KiB	49 minutes 53 seconds
27/04/17	RETRIEVE	2	32.5 MiB	16.3 MiB	1 minute 6 seconds
28/04/17	ARCHIVE	1	12.0 MiB	12.0 MiB	1 minute 44 seconds
28/04/17	BACKUP	1	7.0 MiB	7.0 MiB	1 minute 57 seconds
28/04/17	RETRIEVE	2400	20.1 MiB	8.6 KiB	48 minutes 21 seconds
13/06/17	BACKUP	2	168.3 MiB	84.2 MiB	14 minutes 33 seconds
13/06/17	RETRIEVE	4	298.6 MiB	74.6 MiB	2 minutes 29 seconds
13/06/17	ARCHIVE	2	130.2 MiB	65.1 MiB	1 minute 29 seconds
14/06/17	ARCHIVE	12	102.2 KiB	8.5 KiB	3 hours 24 minutes 58 seconds
14/06/17	BACKUP	1	15.1 MiB	15.1 MiB	3 hours 32 minutes 17 seconds

Figure 23. Statistics

# CatDV

## Worker Actions

This section details how to setup the worker with archival related watch actions.



Once a watch action has been setup correctly then it can be duplicated and modified which might be quicker than creating a new watch action every time.



Refer to [File Locations](#) for the Application Data path for the processing steps.

When setting the `arc_state` field for the processing steps then you need to click on the down arrow on **Set field** drop down to open the field chooser. Then in search field type in `@arc_state` and click **OK**.

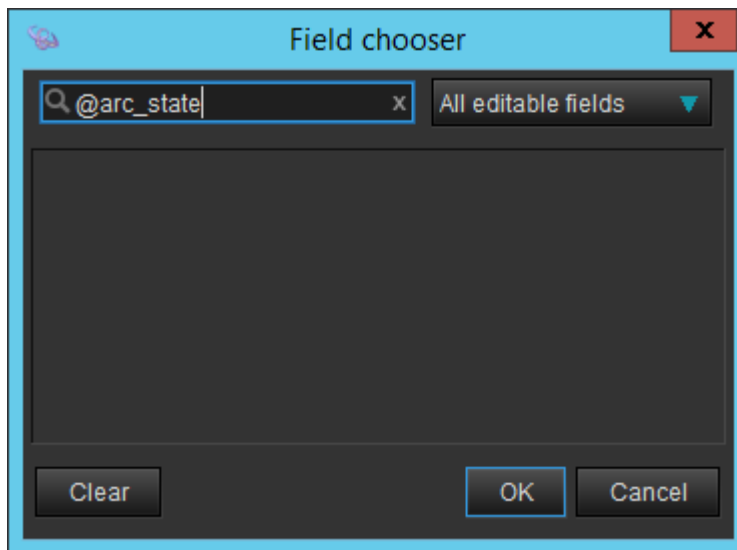


Figure 24. Choose `arc_state` in Field chooser

## Archive

### Trigger

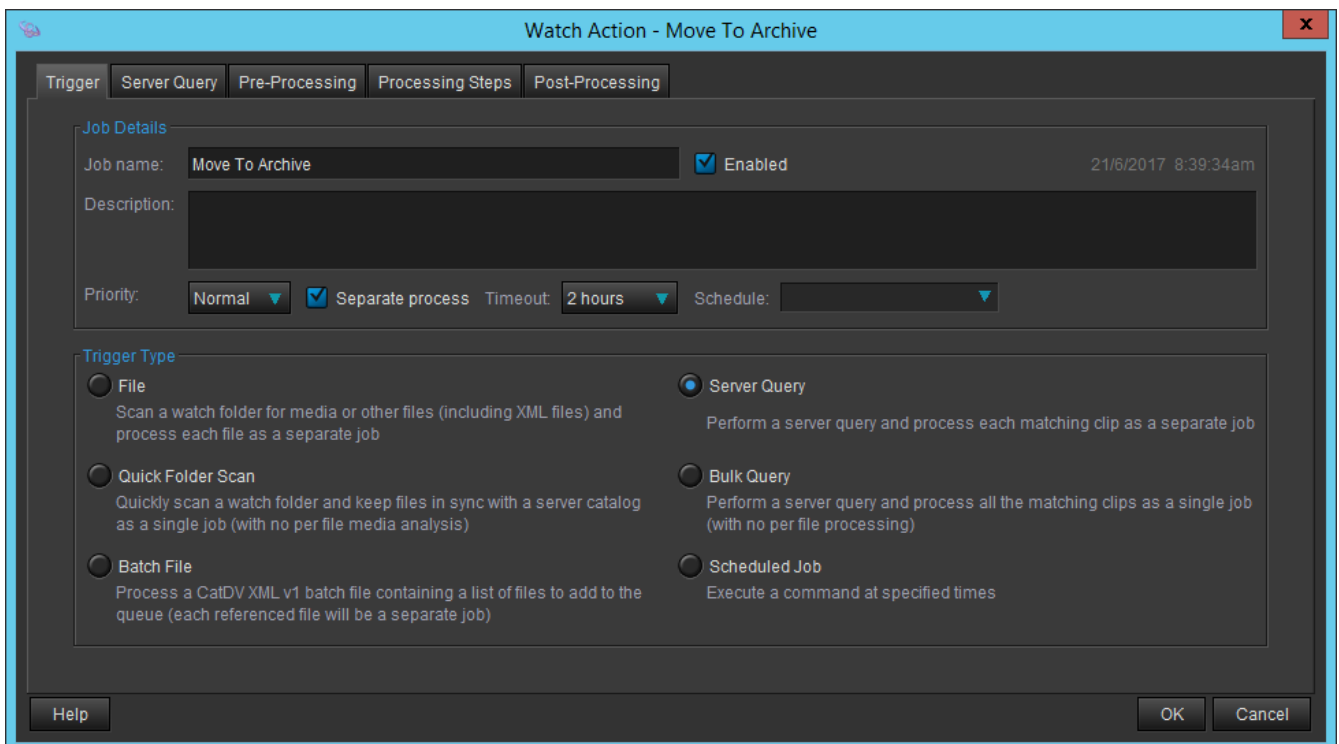


Figure 25. Trigger

- **Job name** - Move To Archive
- **Trigger Type** - *Server Query*

## Server Query

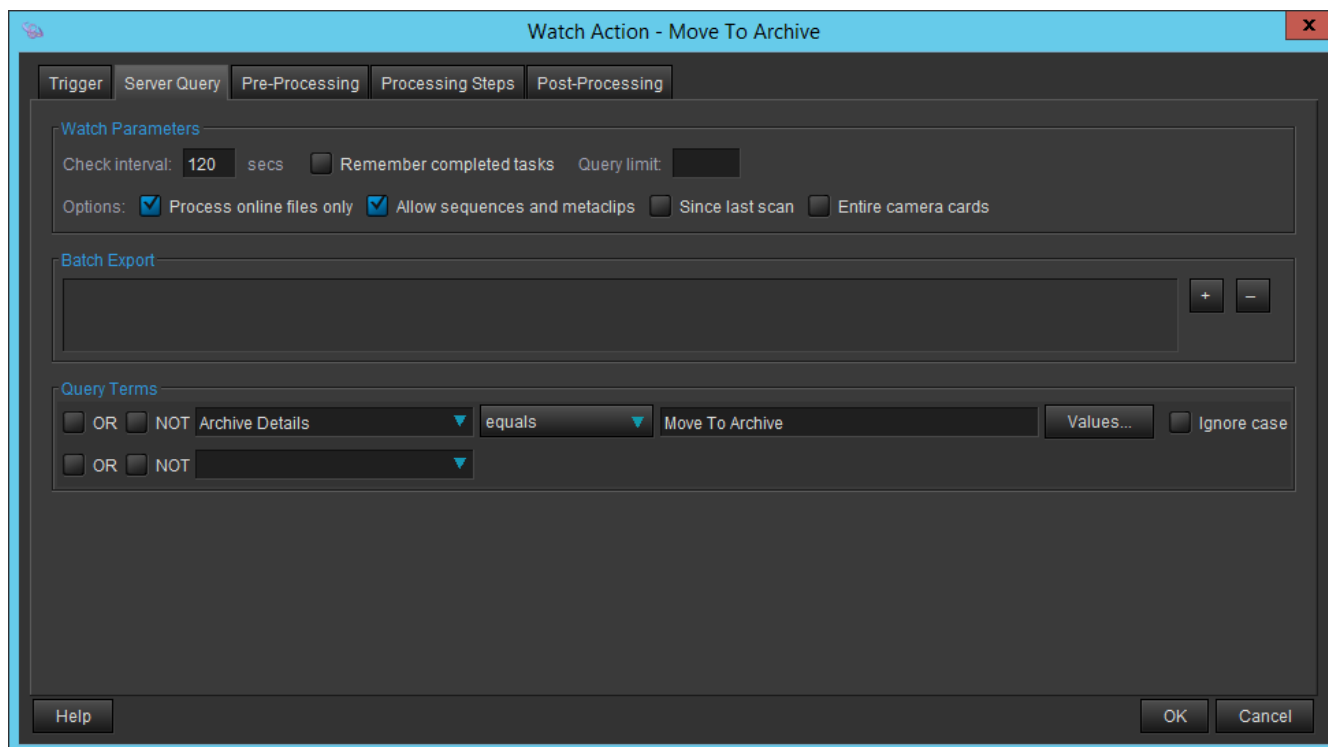


Figure 26. Server Query

- **Process online files only** - Ticked
- **Allow sequences and metaclips** - Ticked
- **Query Terms** - Archive Details equals Move To Archive

## Processing Steps

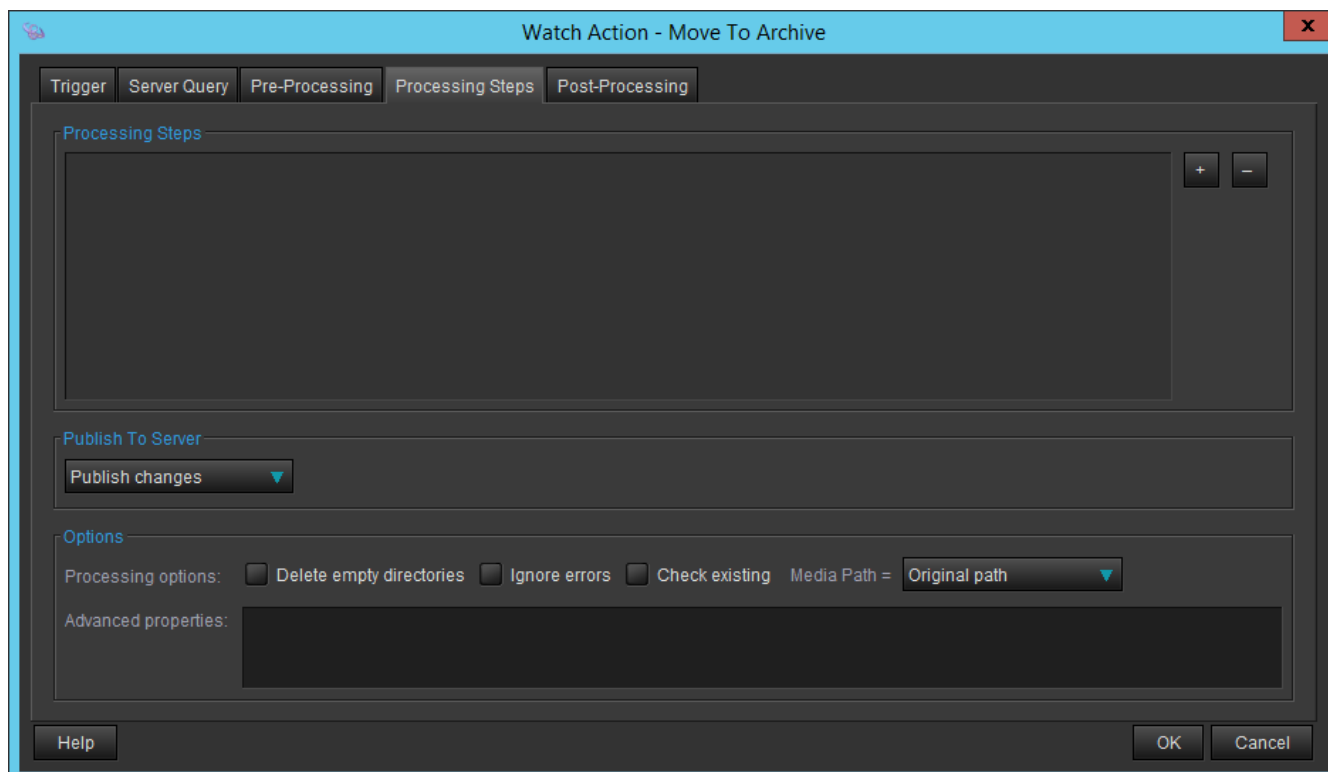


Figure 27. Processing Steps

- **Publish To Server** - Publish changes

## Export XML

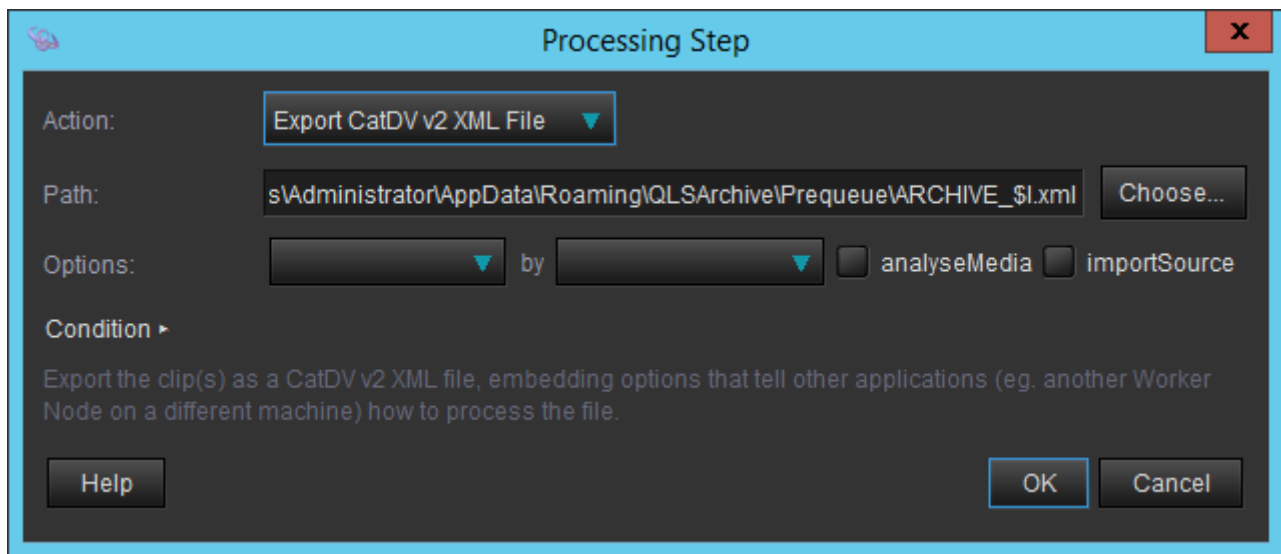


Figure 28. Export CatDV v2 XML File

- **Action** - Export CatDV v2 XML File
- **Path** - {Application Data}/Prequeue/ARCHIVE\_\$.xml

## Set Archive Details

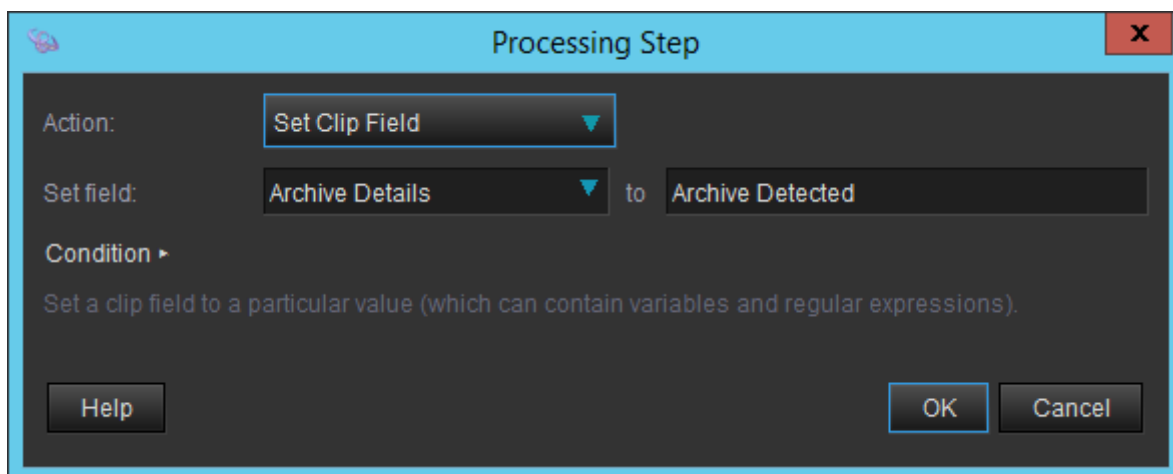


Figure 29. Set Clip Field - Archive Details

- **Action** - Set Clip Field
- **Set field** - Archive Details
- **to** - Archive Detected

## Set Arc State

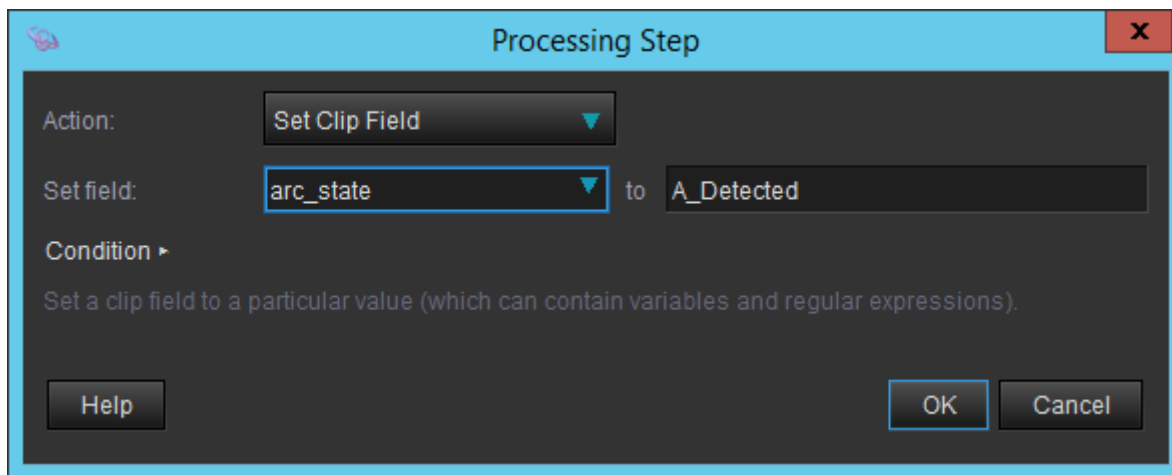


Figure 30. Set Clip Field - arc\_state

- **Action** - Set Clip Field
- **Set field** - @arc\_state
- **to** - A\_Detected

## Backup

### Trigger

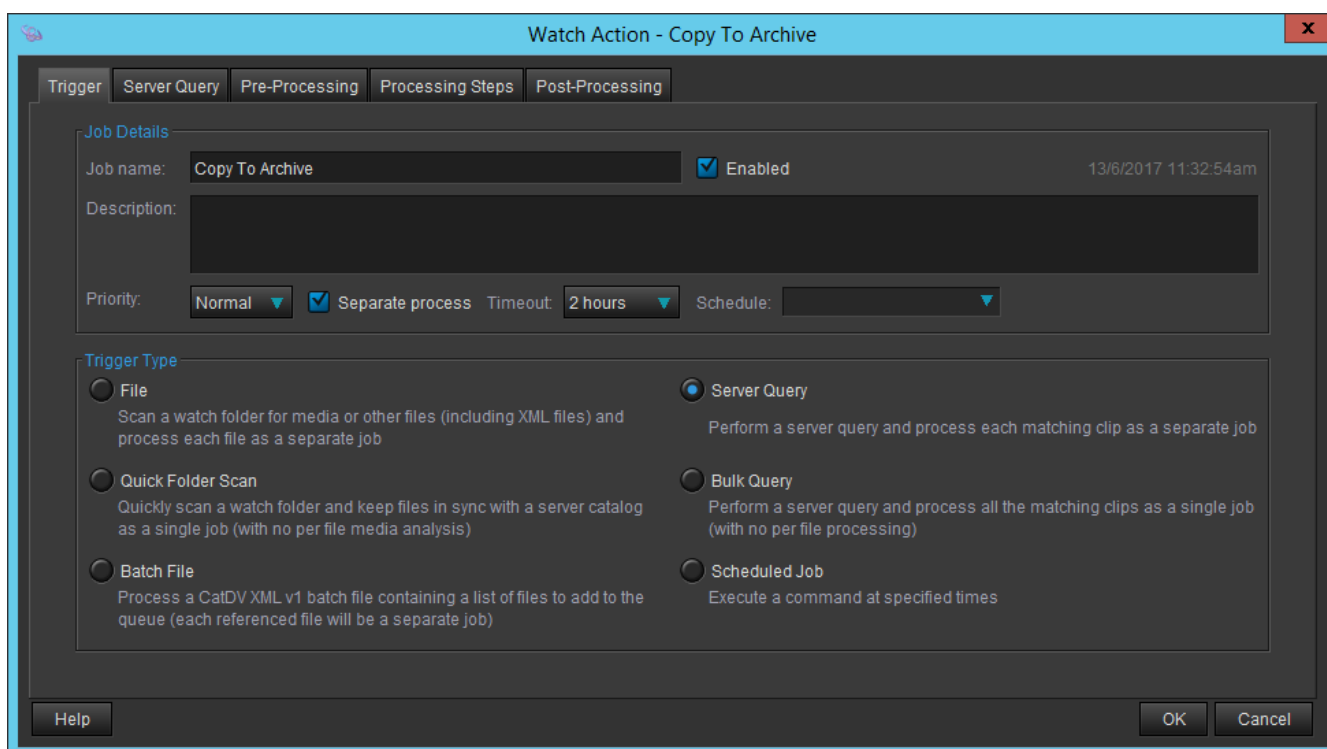


Figure 31. Trigger

- **Job name** - Copy To Archive
- **Trigger Type** - Server Query

### Server Query

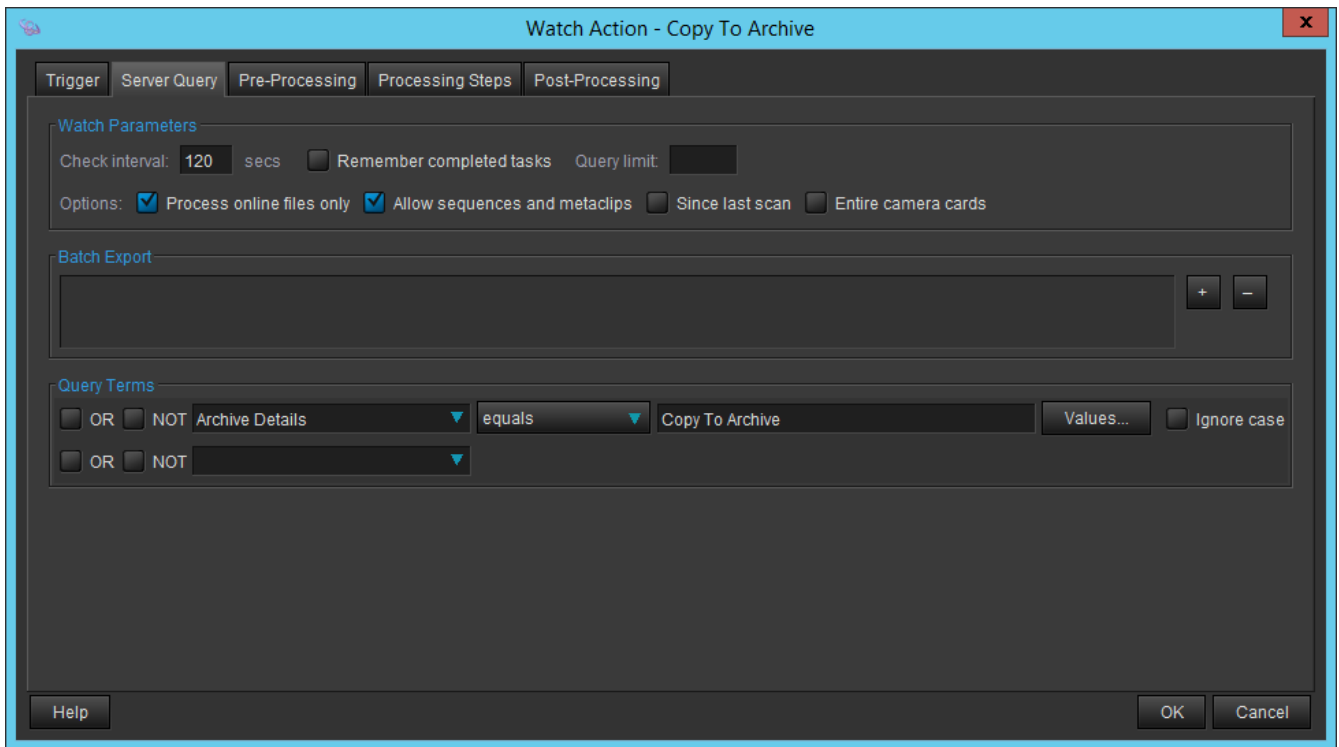


Figure 32. Server Query

- **Process online files only** - Ticked
- **Allow sequences and metaclips** - Ticked
- **Query Terms** - Archive Details equals Copy To Archive

## Processing Steps

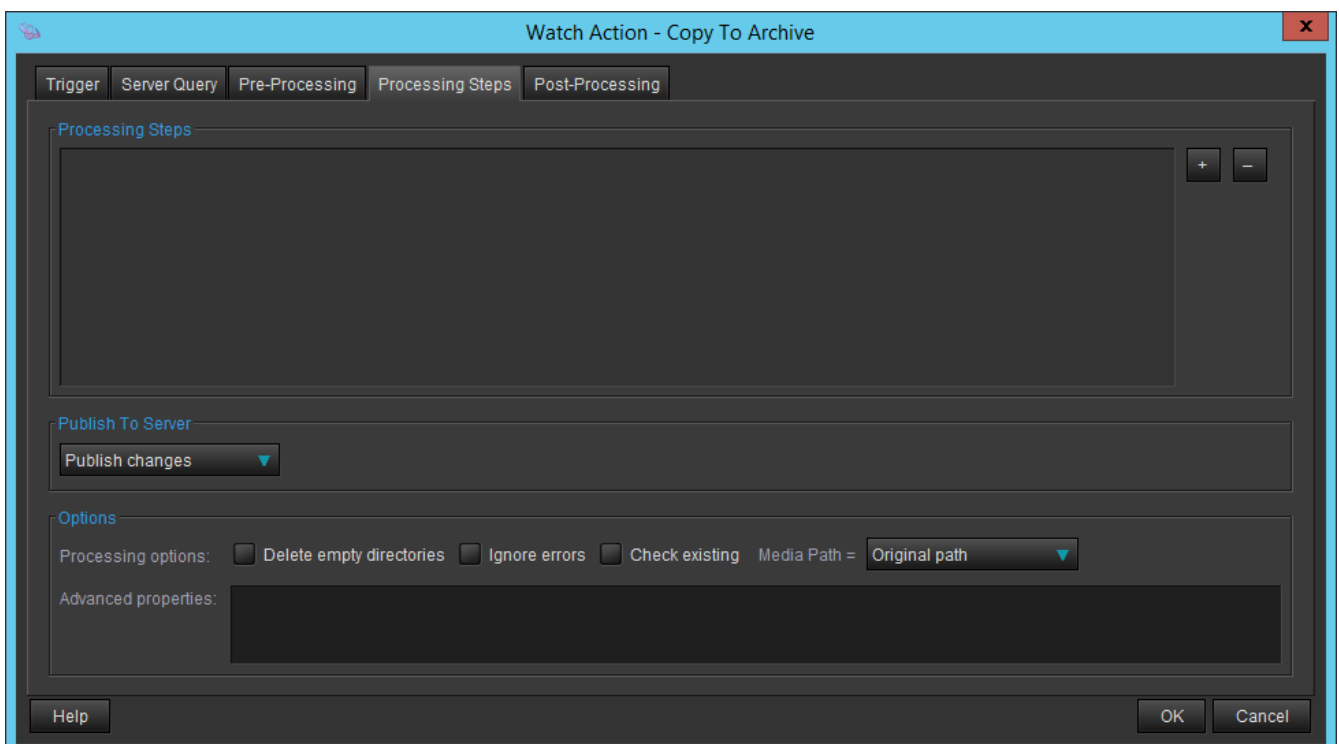


Figure 33. Processing Steps

- **Publish To Server** - Publish changes

## Export XML

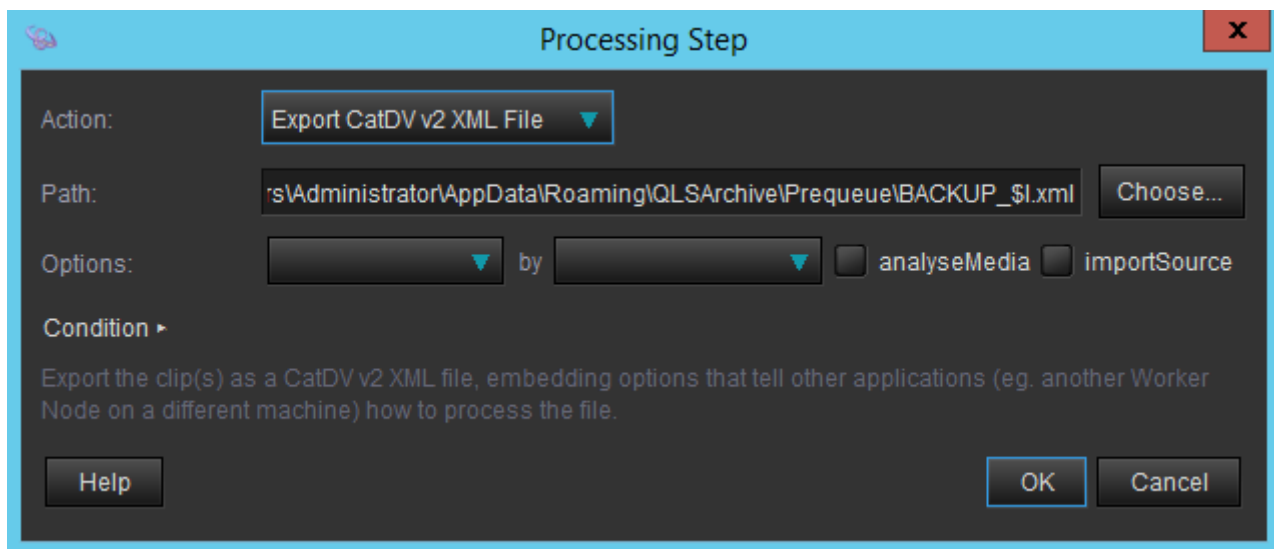


Figure 34. Export CatDV v2 XML File

- **Action** - Export CatDV v2 XML File
- **Path** - {Application Data}/Prequeue/BACKUP\_\$.xml

## Set Archive Details

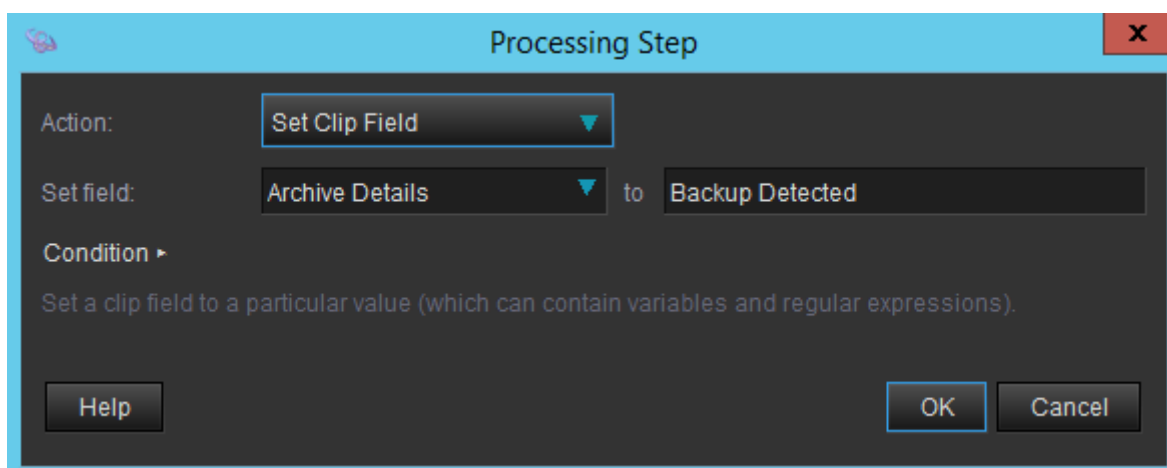


Figure 35. Set Clip Field - Archive Details

- **Action** - Set Clip Field
- **Set field** - Archive Details
- **to** - Backup Detected

## Set Arc State

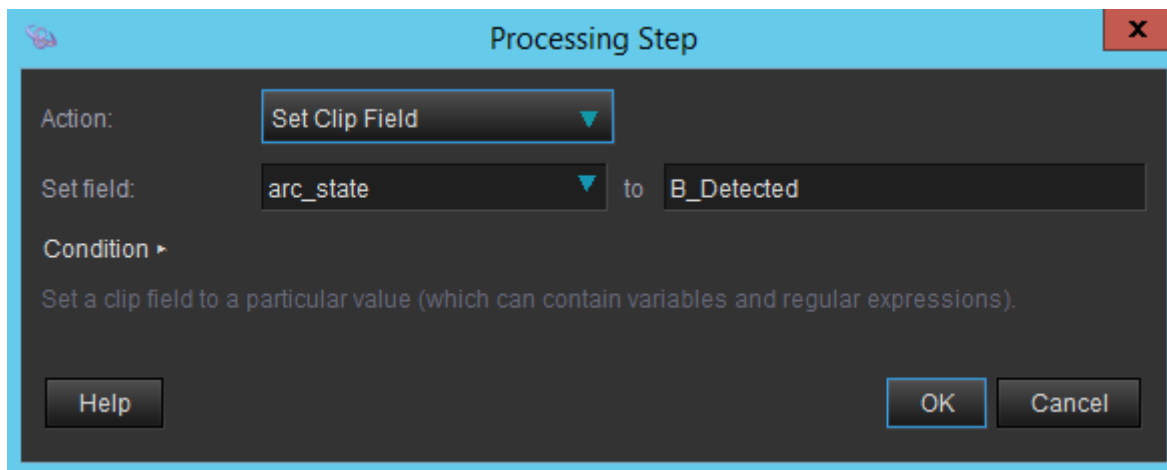


Figure 36. Set Clip Field - arc\_state

- **Action** - Set Clip Field
- **Set field** - @arc\_state
- **to** - B\_Detected

## Retrieve

### Trigger

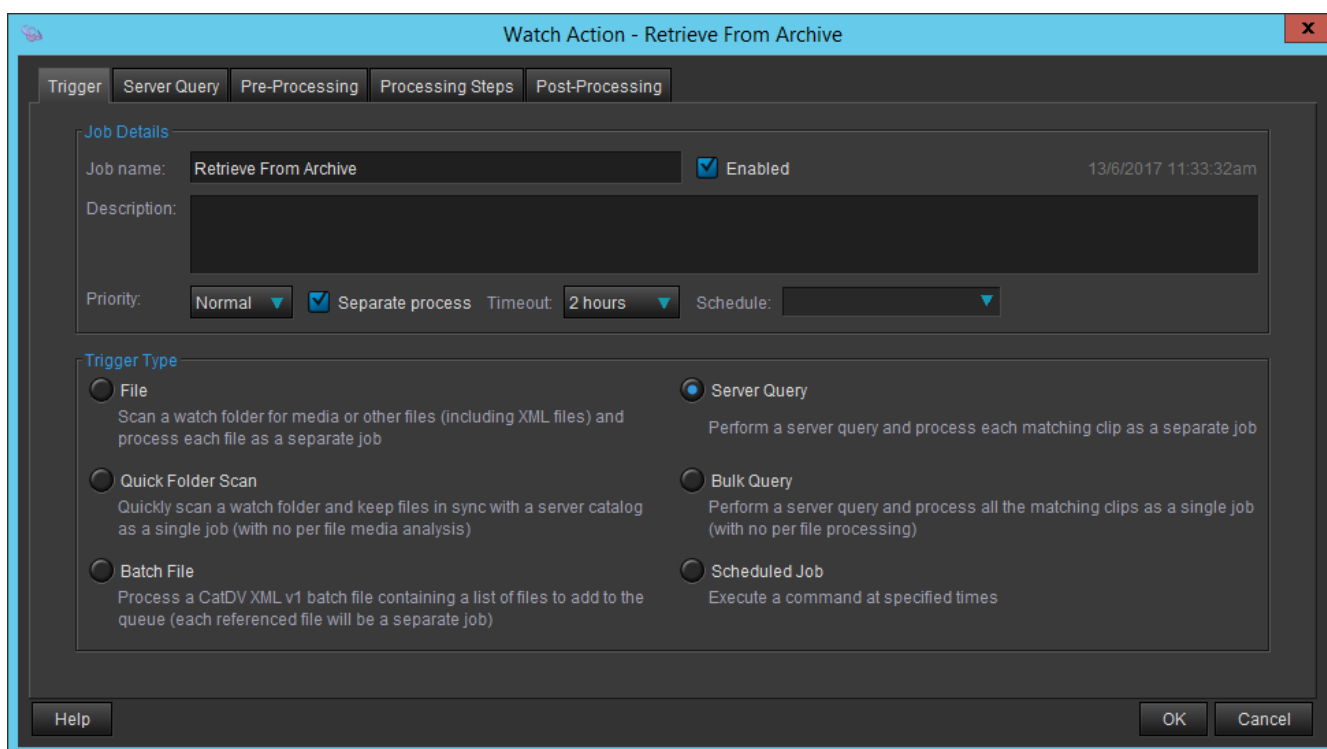


Figure 37. Trigger

- **Job name** - Retrieve From Archive
- **Trigger Type** - Server Query

### Server Query



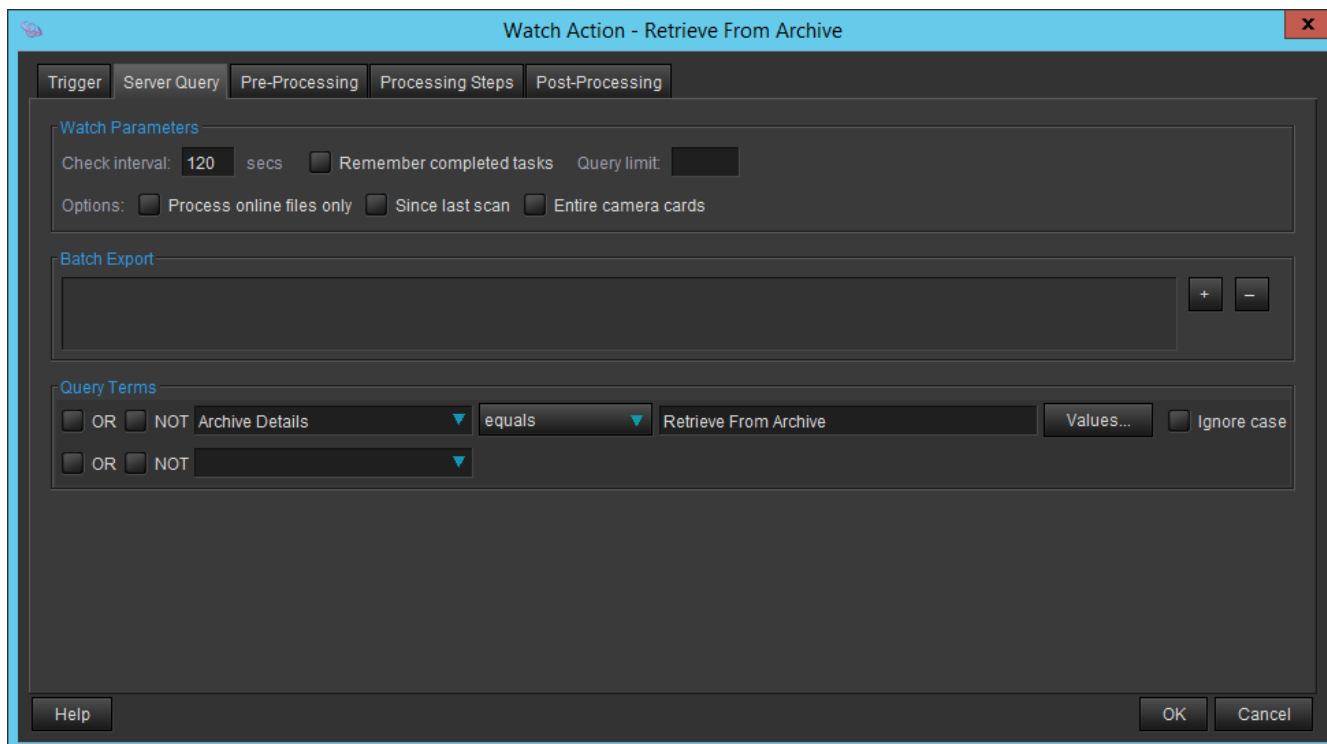


Figure 38. Server Query

- **Query Terms** - Archive Details equals Retrieve From Archive

## Processing Steps

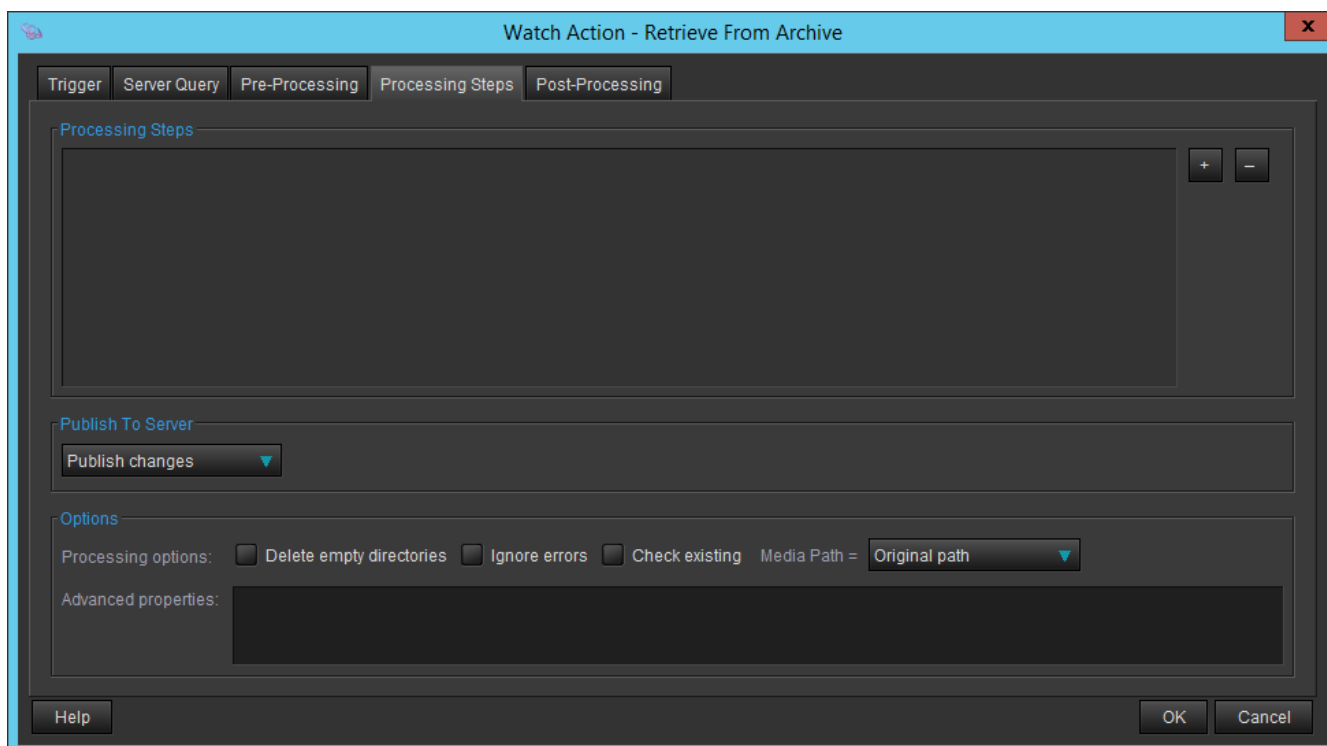


Figure 39. Processing Steps

- **Publish To Server** - Publish changes

## Export XML

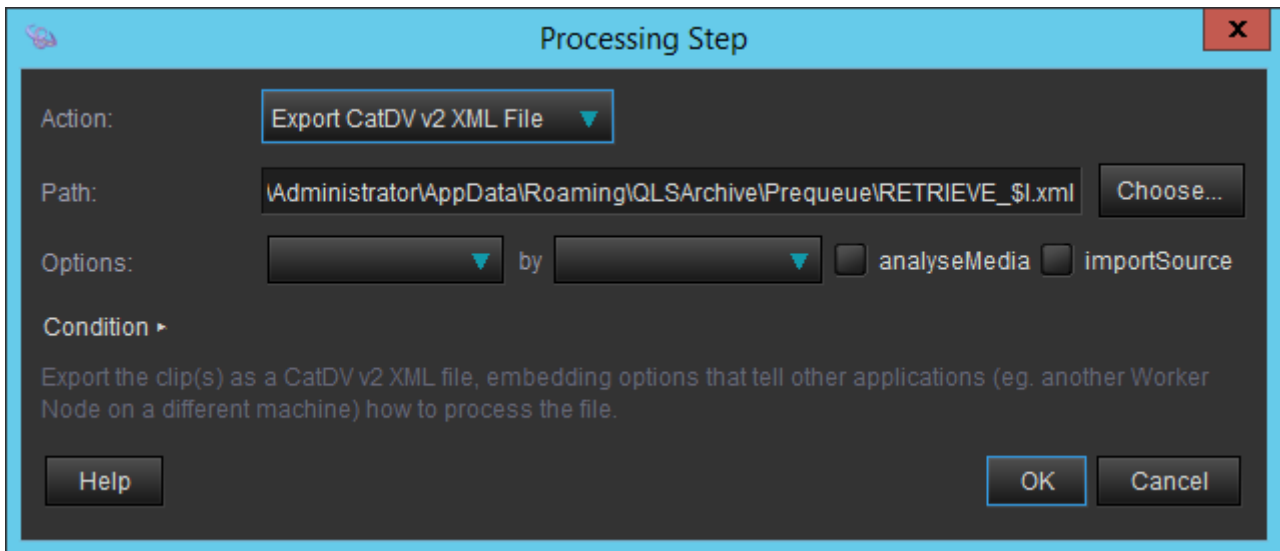


Figure 40. Export CatDV v2 XML File

- **Action** - Export CatDV v2 XML File
- **Path** - {Application Data}/Prequeue/RETRIEVE\_\$.xml

#### Set Archive Details

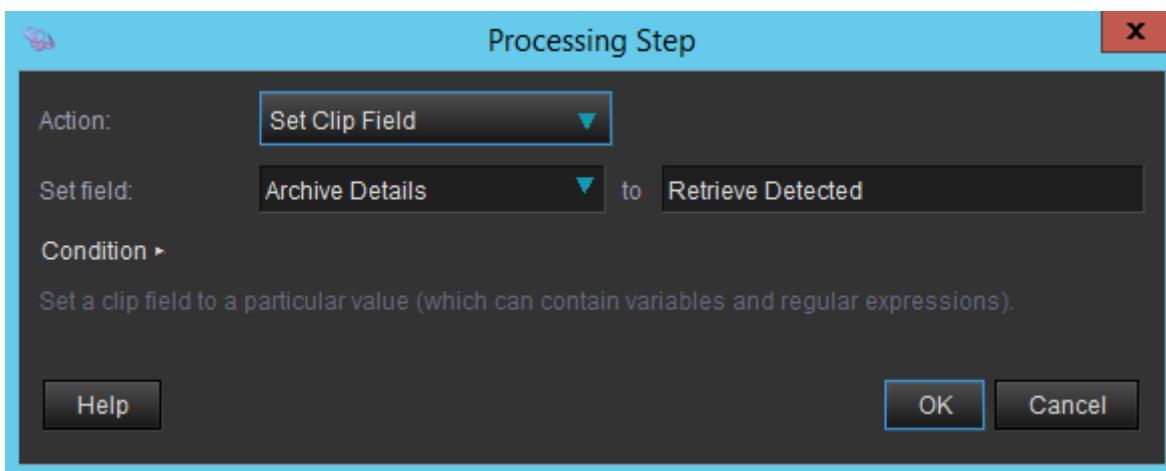


Figure 41. Set Clip Field - Archive Details

- **Action** - Set Clip Field
- **Set field** - Archive Details
- **to** - Retrieve Detected

#### Set Arc State

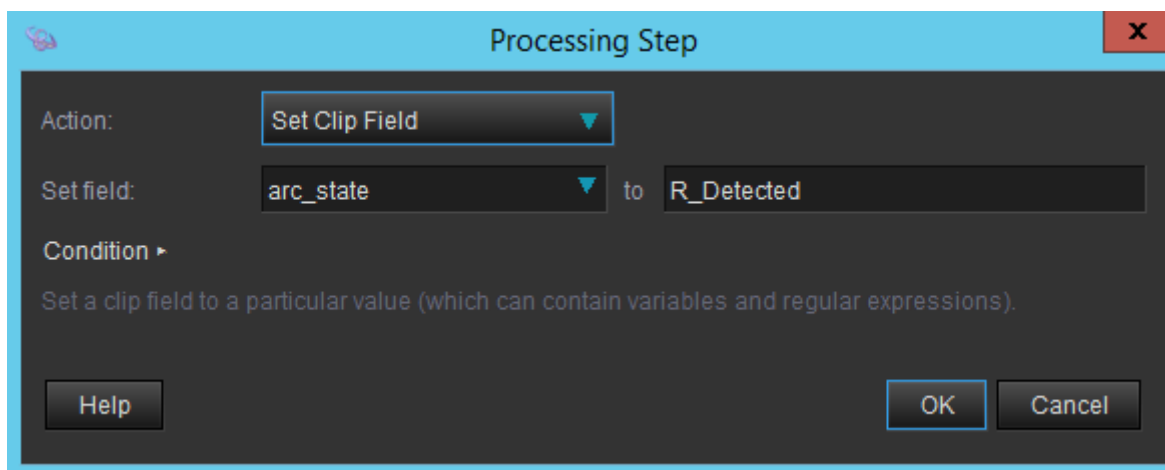


Figure 42. Set Clip Field - arc\_state

- **Action** - Set Clip Field
- **Set field** - @arc\_state
- **to** - R\_Detected

## Purge

### Trigger

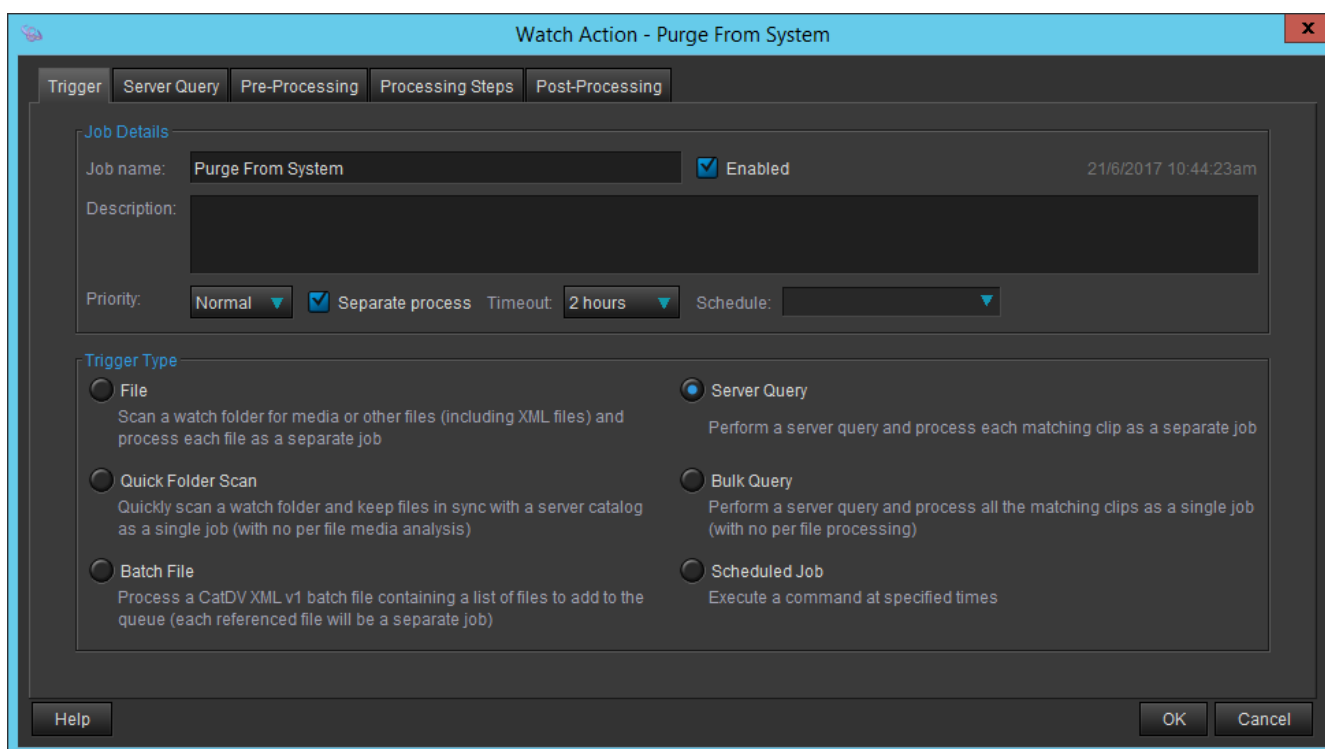


Figure 43. Trigger

- **Job name** - Purge From System
- **Trigger Type** - Server Query

### Server Query

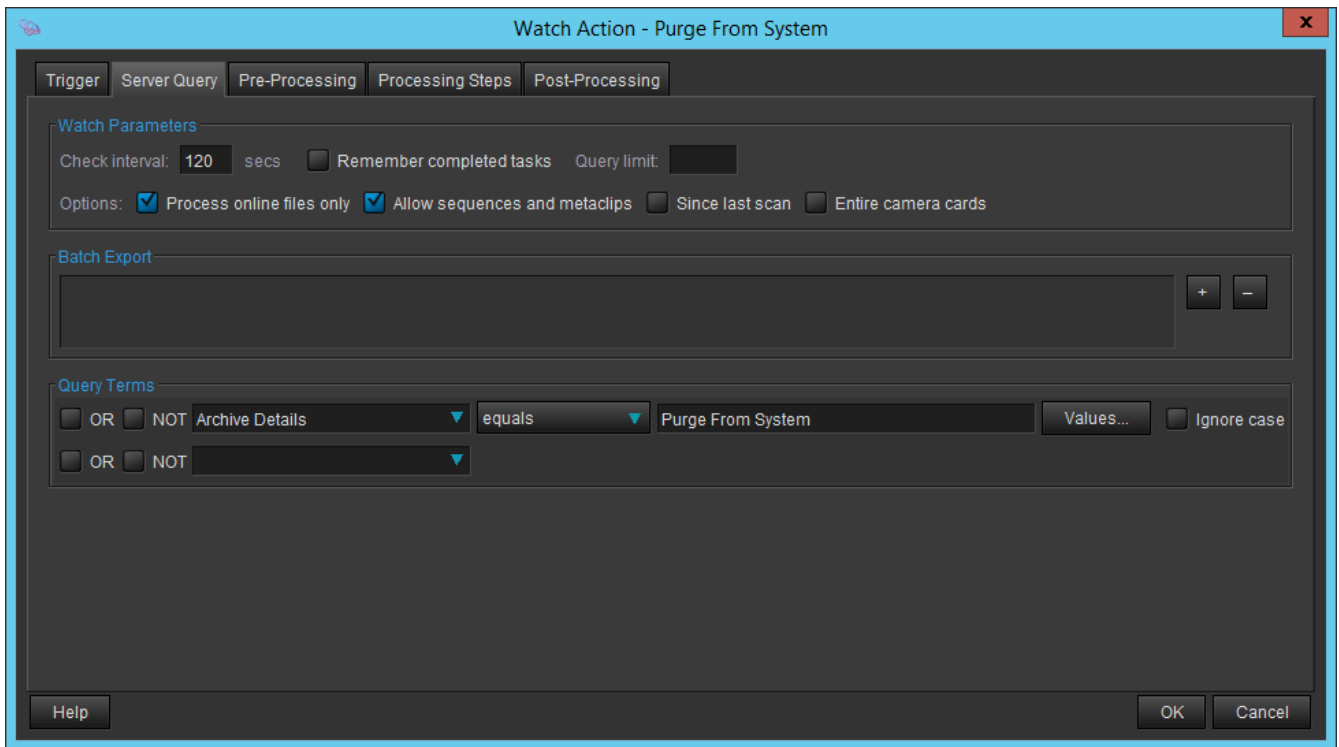


Figure 44. Server Query

- **Process online files only** - Ticked
- **Allow sequences and metaclips** - Ticked
- **Query Terms** - Archive Details equals Purge From System

## Processing Steps

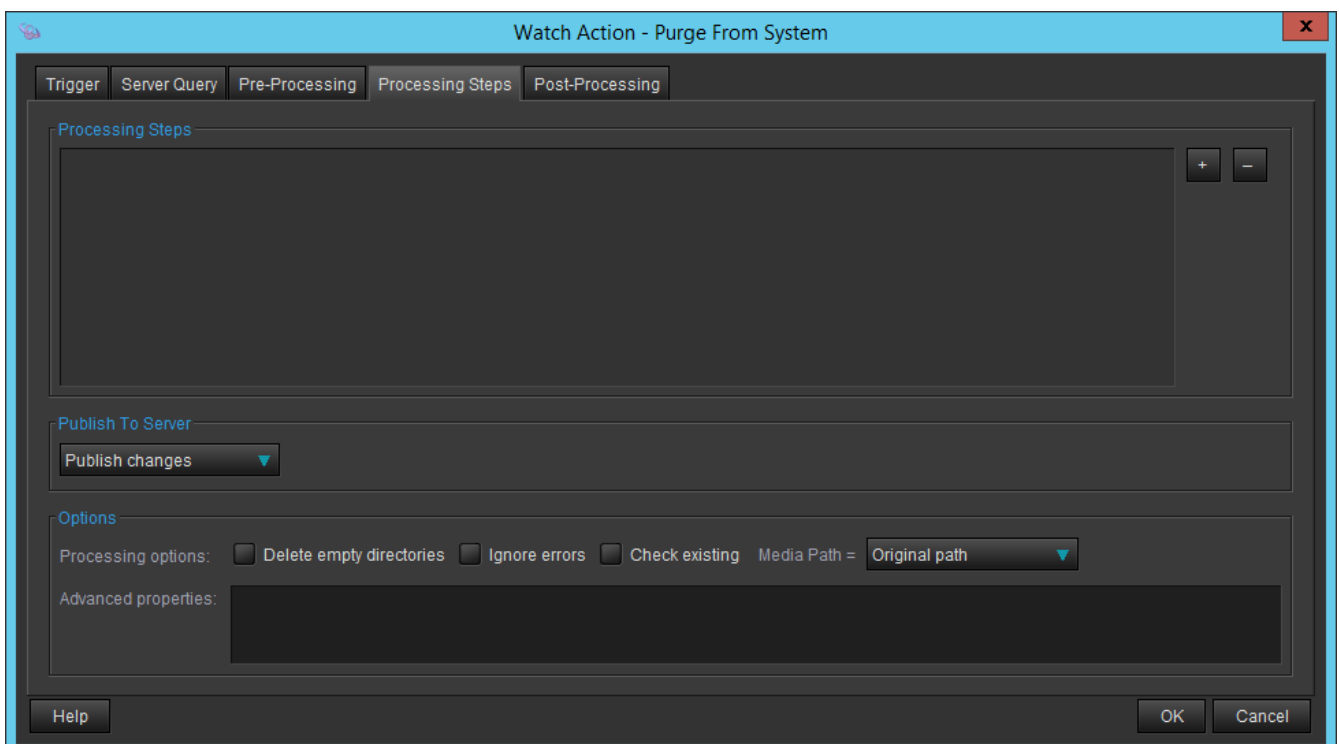


Figure 45. Processing Steps

- **Publish To Server** - Publish changes

## Export XML

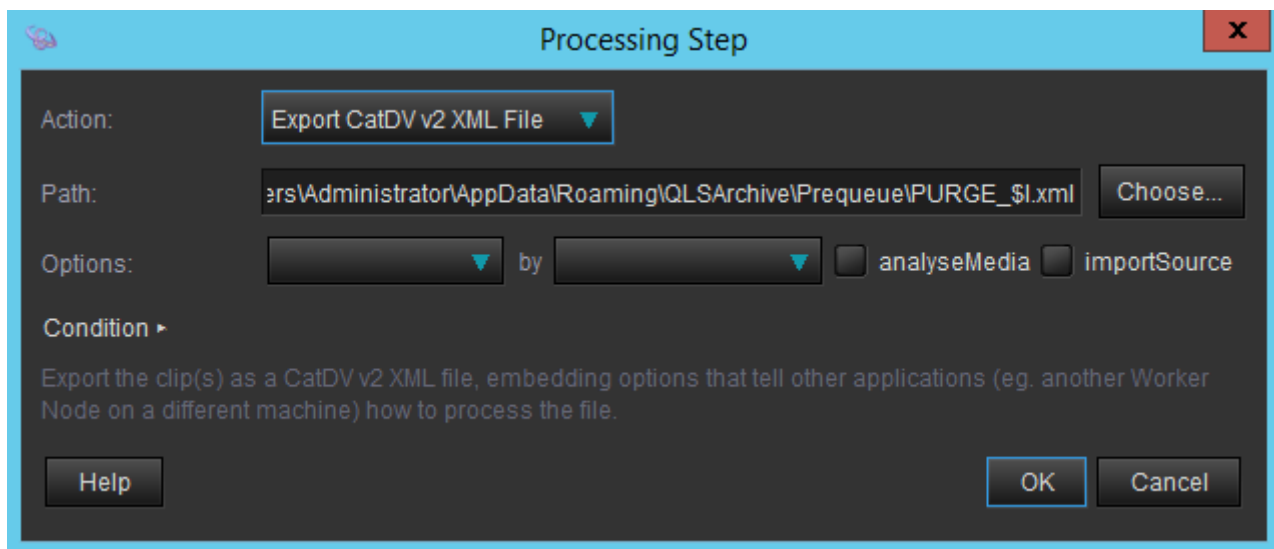


Figure 46. Export CatDV v2 XML File

- **Action** - Export CatDV v2 XML File
- **Path** - {Application Data}/Prequeue/PURGE\_\$.xml

## Set Archive Details

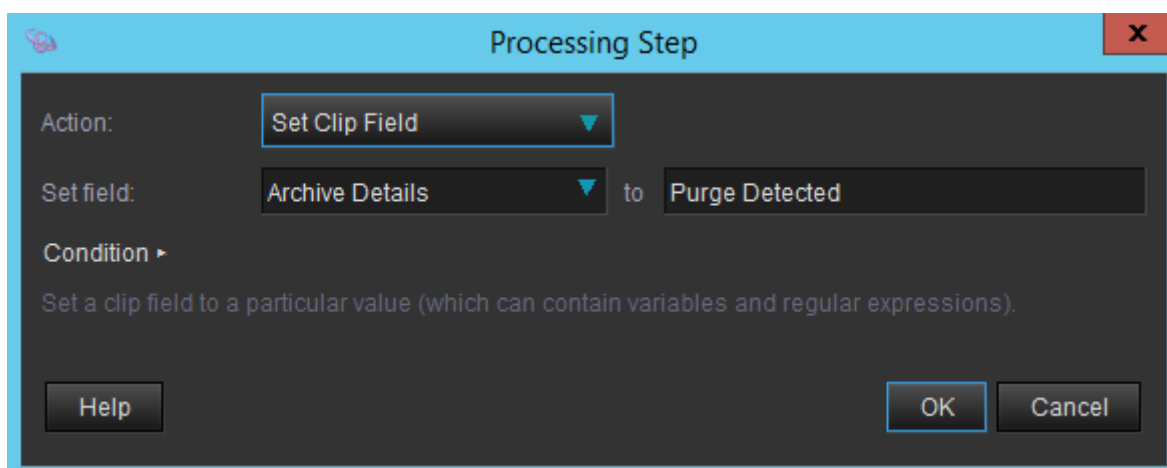


Figure 47. Set Clip Field - Archive Details

- **Action** - Set Clip Field
- **Set field** - Archive Details
- **to** - Purge Detected

## Set Arc State

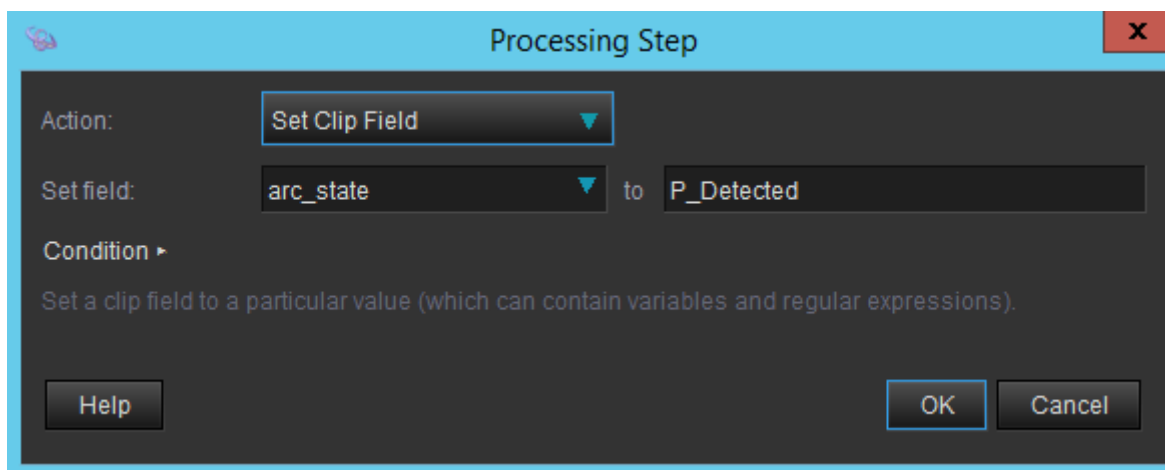


Figure 48. Set Clip Field - arc\_state

- **Action** - Set Clip Field
- **Set field** - @arc\_state
- **to** - P\_Detected

## CatDV Client Setup

CatDV can be setup with a details panel and/or view to show archive related values to assist the archivist.



The fields that QLSArchive uses are only created once an archive/retrieve has been successfully completed.

### Available QLSArchive Fields

- arc\_barcode
- arc\_error
- arc\_job
- arc\_state
- arc\_store
- ret\_job
- project\_archive
- arc\_history

### Useful CatDV Fields

- Remote ID
- Name
- Type
- Media Path

## CatDV View

*Tools > Preferences > Customise Views > New View*

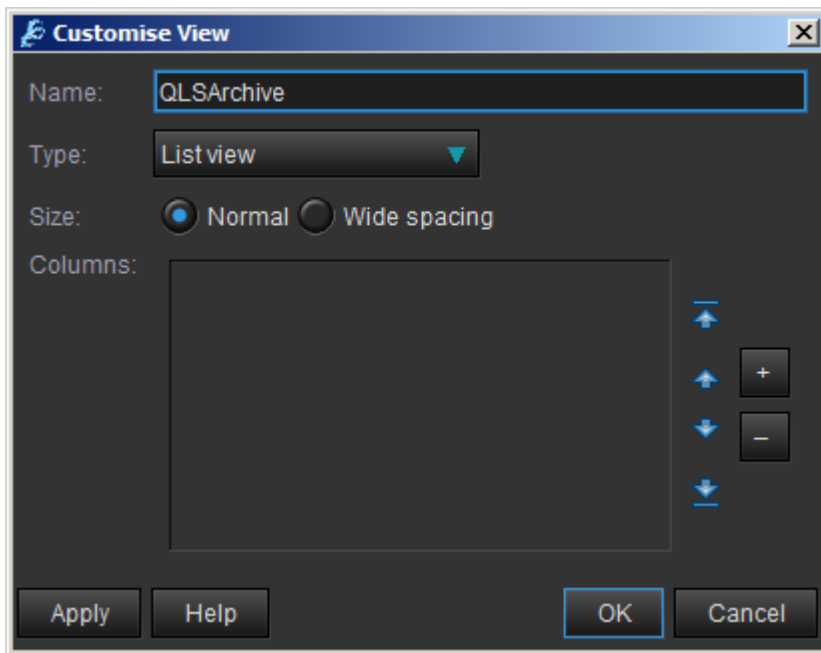


Figure 49. Customise View

**Name** - QLSArchive

1. Click the + to open the Field Chooser

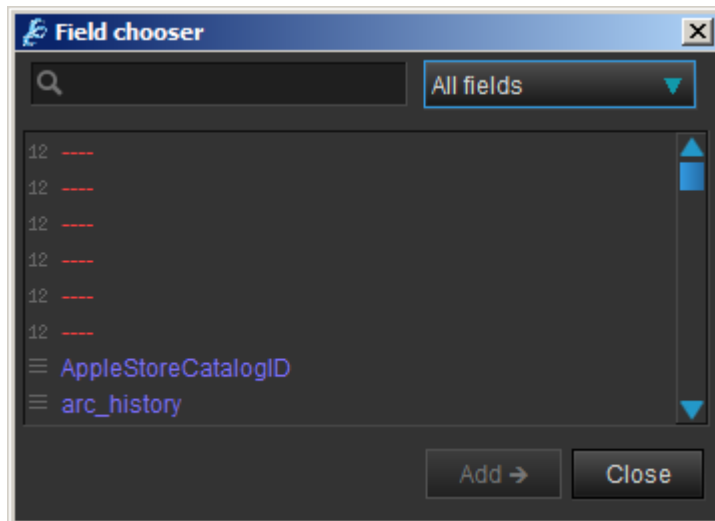
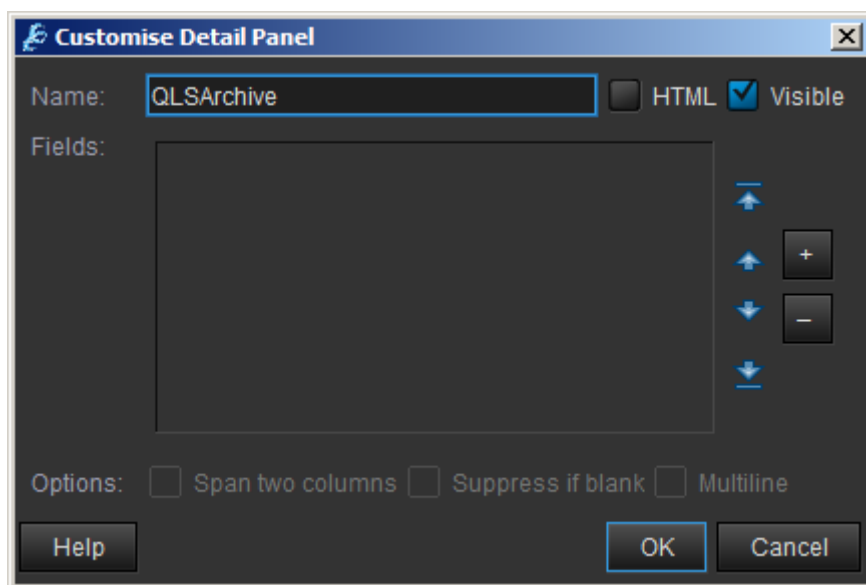


Figure 50. CatDV Field Chooser

2. Select the desired fields and click **Add**
3. Click **Close** to close the field chooser
4. Click **OK** to close the **Customise View**
5. Click **Save Local/To Server** to save the view

## CatDV Details Panel

*Tools > Preferences > Customise Details Panel > New panel*



*Figure 51. Customise Details Panel*

Setup of the panel follows the same steps as [CatDV View](#).