Bitfocus companion module to control ProVideoServer

Requires an IP address and port to connect

Has up to four channels on a server – channels can either be set up for playback, record or not configured, those channels also have a name

ProVideoServer can be controlled by Grass Valley AMP Protocol, BVW, or VDCP. AMP is the preferred protocol.

Functions to be supported are:

Playback:

Play

Play from timecode

Pause

~~Fast Forward~~

~~Rewind~~

Re-cue to start (and stop)

Next Video

Previous Video

Play Clip ID

Playlist controls are

List clips

Device

* Device Type (should return ProVideoServer)
* Device Name request

Transport

* Stop (Optional stop timecode) | Returns ACK
* Play (OPT start timecode) | Returns ACK
* Eject | Returns ACK
* ~~OPT: Fast forward \ rewind commands | Returns ACK~~
* ~~OTP: Record (OPT timecode) | Returns ACK~~
* ~~Status Sense \~~ Time Sense
  + We will need to infer status by observing time sense

Timeline

* ID Loaded Request | RET 82.16 Reply
* OPT: Possibly In Preset

Playlist

In theory we can let the PVS library file give us all the info we need.

* ID Count Request | RET 82.26
* List First ID
* List Next ID
* ~~ID Status Request (probably not .. not super relevant)~~
* ~~ID Duration Request | RET 84.17 ID Duration |~~ RET NAC sadly
* ID Loaded Request | RET list of all clips
  + We also can look at the PVS3 file – it has much more information
    - Load by index \ Load by name

We also want

Auto cue next function (with timer delay or tally sense .. or maybe just tally sense)

Auto lockout when on air or when playing

Lock out override function that disables lock out when pressed for that clip

Lock out on and off functions so it can be set up in Companion

Go jump +10 + 30 ect

Jump <30 <15

We want to assign each playlist item a index number, attribute isLoaded

We want to have a way to attach TRT \ T1 \ T2 to ProPresenter stage display timers

qlmanage -t <video path> -s 512 -o <image cache path> can be used to generate thumbnails

* https://superuser.com/questions/162144/create-video-thumbnail-with-os-x-from-command-line