

# TvHeadendCli – How to Setup with TV-Browser and Aufnahmesteuerung

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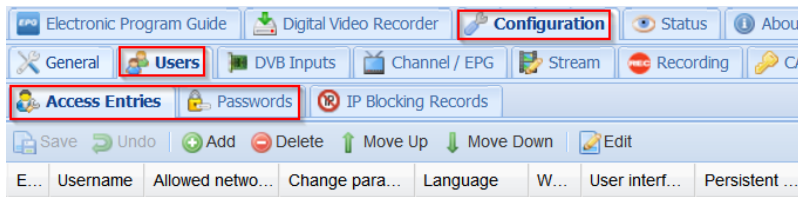
## 1 Requirements

- Windows, tested with Windows 10
- .Net-Framework 4.7.2 or above
- TV-Browser, tested with Version 4.01
- Plugin Aufnahmesteuerung, tested with 3.1.4.14, 3.1.4.21
- TV-Headend Server, tested with 4.2.4 on Raspberry Pi
- You can find the binaries [here](#). No installation is necessary, just download the zip file and extract the files to a folder of your choice.

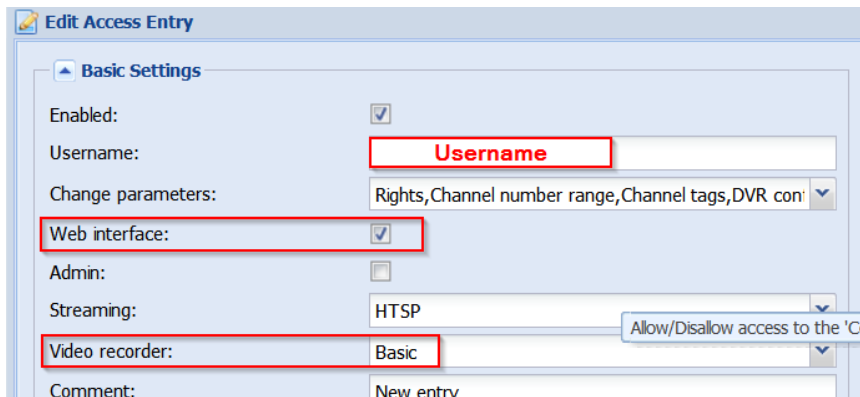
## 2 TvHeadend

### 2.1 Configure Web Interface with Authentication (Recommended)

Make sure you have a user with a password and sufficient rights. You can manage this at the web interface here:

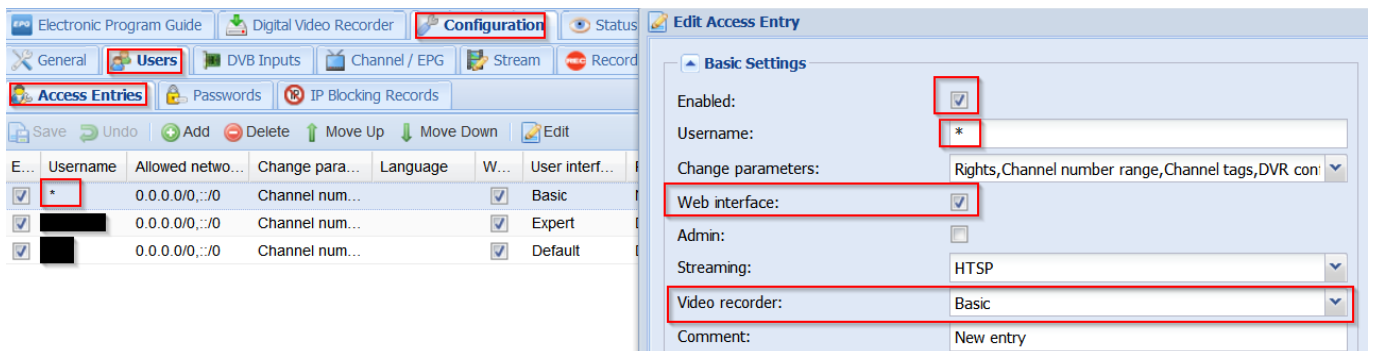


Create a user and set at least the following rights. Then go to the password tab and create a password for the new user.

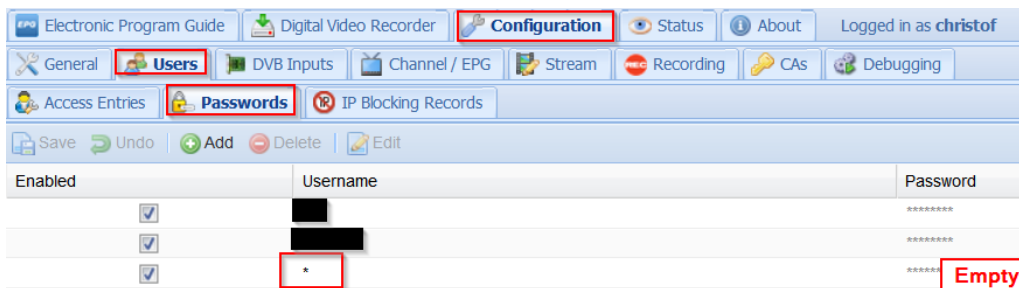


### 2.2 Configure Web Interface without Authentication

Make sure you have a user with name \*. Give \* Permissions as shown here:



Make sure you have a password for User \*



### 3 TvHeadendGui.exe

Not required for the recording control function, but useful for creating data for the Plug-In Aufnahmesteuerung as the parameter list and the channel names list (for the assignment of the channels). Download the zip-archive [here](#) and extract all files to a folder of your choice.

#### 3.1 Settings

Enter the data for your TV-Headend installation here. With the thumb-button, you can check if the server accepts the data. When setting up the Plug-In Aufgabensteuerung later on, you can copy the parameter list here.

TV-HEADEND GUI 1.0.1.0

RECORDINGS CHANNELS **SETTINGS**

Adjust settings for accessing your TvHeadend Server here.

Server Name Or IP [redacted]  
Port Number 9981  
Use TLS (https) ☐  
Authentication ☒  
Save Credentials ☒  
User Name [redacted]  
Password [redacted]  
Video Download Path C:\Users\CWiegand\Desktop\Video  
Aufnahmesteuerung Copy these strings to the fields at Aufnahmesteuerung:  
Create -acreate -url"http://[redacted]:9981/" -un"[device\_username]" -up"[device\_password]" -c"[channel\_name\_external]" -t"({maxlength(title,"200"))" -p"[production\_year]" -d"[description]" -r"TV-Browser" -s{start\_unix} -e{end\_unix}  
Remove -aremove -url"http://[redacted]:9981/" -un"[device\_username]" -up"[device\_password]" -c"[channel\_name\_external]" -s{start\_unix}

#### 3.2 Channels

This window shows a list of all channels available on your TV-Headend-Server. You can use it later for the channel assignment of the Plug-In Aufgabensteuerung. You can open the list as a text file by the marked button to get the correct channel names by copy & paste.

TV-HEADEND GUI 1.0.1.0

RECORDINGS **CHANNELS** SETTINGS

CHANNEL

3sat  
3sat HD  
arte  
arte HD  
BBC World  
BBC World News  
BR Fernsehen Süd  
BR Fernsehen Süd HD  
Das Erste

#### 3.3 Recordings

You can use this window for further control of recordings. Completed recordings can be downloaded from the tv headend server (to the path specified at Settings) and deleted from the server as required.

TV-HEADEND GUI 1.0.1.0

**RECORDINGS** CHANNELS SETTINGS

No Recordings found

22.03. 13:32 - 15:05 (Finished since about 1 hours) 3sat **Faustrecht der Prärie** Spielfilm, USA 1946  
Status: **Completed OK**  
Download Video: 9 % [progress bar] Abort  
22.03. 20:15 - 22:20 (Starting in about 3 hours) TELE 5 **Fantomas gegen Interpol** 1965  
Status: Scheduled for recording

## 4 TvHeadendCli.exe

This is the command line tool. It is a command line program for windows, written in C#. After setting up everything, you will not see it anymore and can forget about it.

### 4.1 Download and installation

Download the zip-archive [here](#) and extract all files to a folder of your choice. Remember the path to the file **TvHeadendCli.exe**, you will need it later to configure the plug-in Aufnahmesteuerung.

You can Check the tool by opening a command prompt or PowerShell window and change to the folder where TvHeadendCli.exe is located. Try the following command:

```
TvHeadendCli.exe -help
```

### 4.2 Get Channel names from Tv-Headend

The following steps are only necessary for troubleshooting. For the channel list the tool TvHeadend-Gui.exe is recommend.

Later on, you need to match channel names between TV-Browser and TvHeadend. For this task, you need to know the channel names used by TvHeadend. The following command queries the channel names from TvHeadend and writes it to a text file.

Open a command prompt or Powershell windows and change to the folder where TvHeadendCli.exe is located.

Replace url, my\_username and password with your values and post the command like this:

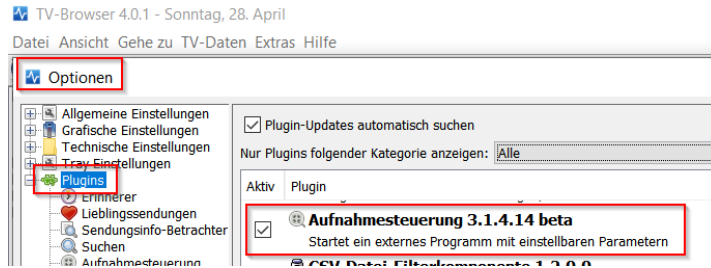
**Attention: if you do not use authentication and if you have a user \*, you need to leave off the parameters -un"my\_username" -up"my\_password"!**

```
TvHeadendCli.exe -channels -url"http://tvheadend:9981" -un"my_username" -up"my_password" > channels.txt
```

Note: the url (and the port) you can find in the address bar of your browser after opening the TvHeadend Site.

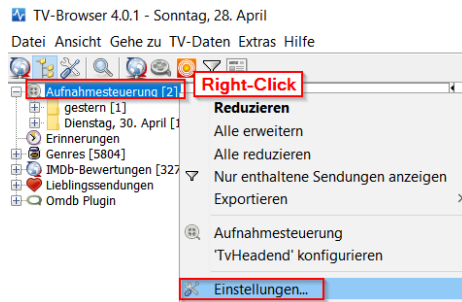
## 5 Aufnahmesteuerung

### 5.1 Install and Update the Plugin with TV-Browser

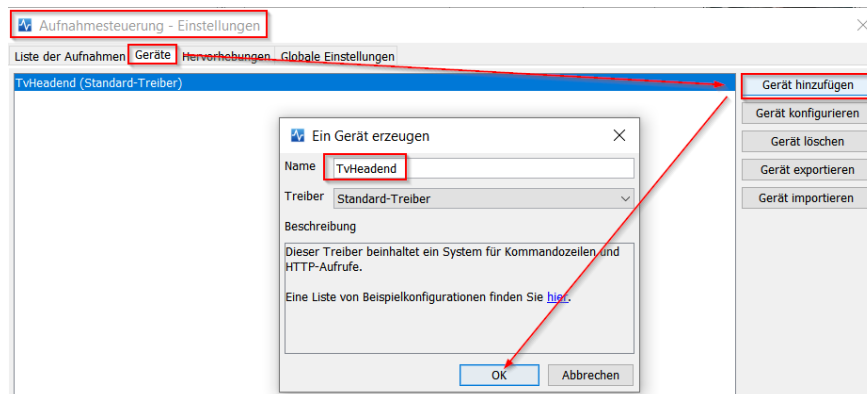


### 5.2 Setup the Plugin

#### 5.2.1 Add a new „Device“

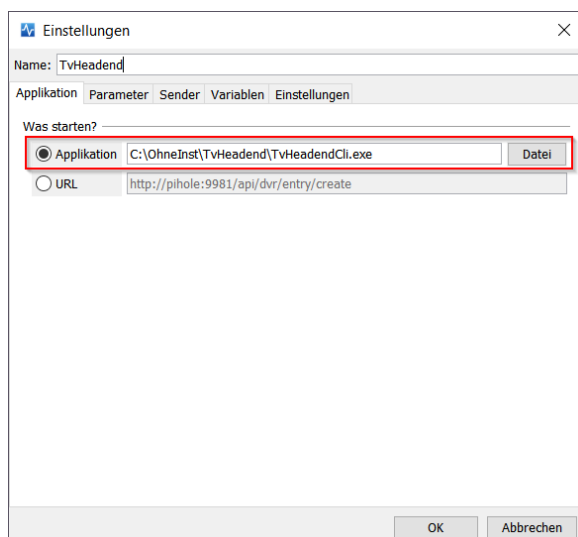


Chose a name for the Device and click okay:



#### 5.2.2 Setup the Device

Fill in the path to TvHeadendCli.exe:



Setup parameters:

The parameters in curly brackets will be provided by TV-Browser at runtime. You might adjust them to your needs. Replace red marked string by your url. **Remove all line breaks after copy and paste!**

**Attention: if you do not use authentication and if you have a user \*, you need to leave off the parameters `-un"{device_username}" -up"{device_password}"`!**

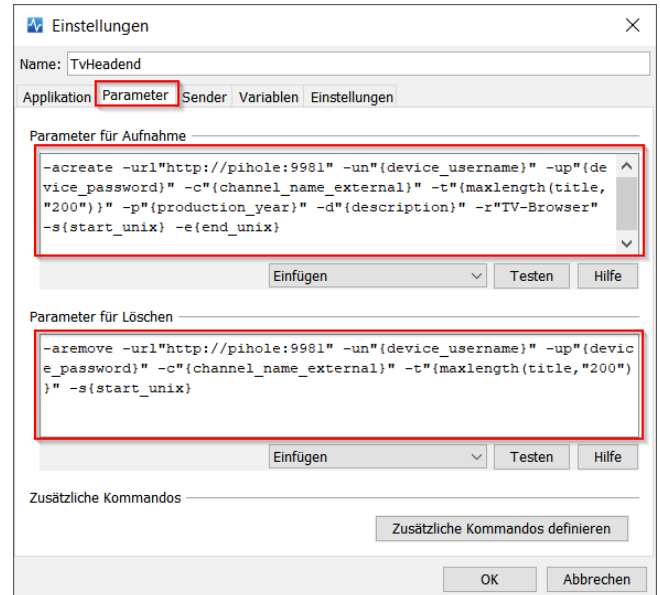
**For this parameter lists use the tool TvHeadendGui.exe as described in chapter 3.1**

1. Command to schedule recordings:

```
-acreate -url"http://TvHeadend:9981" -  
un"{device_username}" -up"{device_password}" -  
c"{channel_name_external}" -  
t"{maxlength(title,"200")}" -  
p"{isset({production_year},"")}" -d"{description}" -r"TV-  
Browser" -s{start_unix} -e{end_unix}
```

2. Command to remove scheduled recordings:

```
-aremove -url"http://TvHeadend:9981" -  
un"{device_username}" -up"{device_password}" -  
c"{channel_name_external}" -  
t"{maxlength(title,"200")}" -s{start_unix}
```



### 5.2.3 Assign Channel Names

As TV-Browser doesn't know the channel names used by TvHeadend, you need to assign them at tab "Sender":

Start with the build-in function "Versuche externe Sendernamen aus Textdatei zuzuordnen" (button at the end). The function is not working perfectly, so proof every assignment.

**For a list of all channel names provided by your TV-Headend-Server use the tool TvHeadendGui.exe as described in chapter 3.2.** Compare the assigned names with the names at the generated text file or transfer them by copy & paste.

### 5.2.4 Further Settings

Goto tab "Einstellungen" and provide the following settings.

Einstellungen

Name: TvHeadend

Applikation Parameter **Sender** Variablen Einstellungen

Name der Kanäle

Zeit-Einstellungen

Wieviele Minuten früher starten? 0

Wieviele Minuten später stoppen? 0

Benutzer

Benutzername: christof

Passwort: .....

Sonstiges

Maximale Anzahl gleichzeitiger Aufnahme... 2

Anzahl der Sek. bis zum Abbruch (-1 = ... 5

☒ Überprüfe, ob ein Fehler-Wert zurück gegeben wird

☐ Rückgabe-Dialog nur bei Fehler anzeigen

☐ Zeige Titel- und Zeiteinstellungsdialog

☒ Sendungen, die beim Datenupdate entfernt wurden, automatisch löschen

☒ Nur Programme erlauben, die in der Zukunft liegen

☒ Zeitzone vom Betriebssystem erfragen

Zeitzone: Europe/Berlin

Programmierte Sendungen weitergeben an:

Keine Ziele ausgewählt

Ziele auswählen

OK Abbrechen

Do not set the pre- or post-recording time here; you should do this at TvHeadend. Provide username and password if required.

Einstellungen

Name: TvHeadend

Applikation Parameter **Sender** Variablen Einstellungen

Name der Kanäle

Interner Name	Externer Name
Das Erste (ARD)	Das Erste
ZDF	ZDF
arte	arte
3sat	3sat
Sat.1	SAT.1
ProSieben	ProSieben
VOX	VOX
kabel eins	kabel eins
RTL	RTL Bayern
RTL2	RTL2
Super RTL	SUPER RTL
Nitro	Nitro
KIKA	KIKA
Disney Channel	Disney Channel - CV
ProSieben MAXX	ProSieben MAXX
Sat.1 Gold	SAT.1 Gold
ZDFneo	zdf_neo
ZDFinfo	ZDFinfo
PHOENIX	PHOENIX
Tele 5	TELE 5 - CV
NDR Hamburg	NDR FS HH
RBB Berlin	rbb Berlin
WDR	WDR Köln
MDR Sachsen	MDR Sachsen
hr	hr-fernsehen
SWR BW	SR Fernsehen
BR	BR Fernsehen Nord

Versuchen externe Sendernamen aus Textdatei zuzuordnen

OK Abbrechen