

# Wetek OpenELEC – TVHeadend Freesat Bouquet and XMLTV data

## Install TVHeadend

Go to System, Settings, Add-ons

Select Install from Repository, OpenELEC Mediacenter OS Add-ons, Add-on Repository, OpenELEC Add-ons (unofficial) then Install.

Once installed go back to the Install from Repository menu level.

Select OpenELEC Add-ons (unofficial), Services, tvheadend then Install

Select the tvheadend Add-on and then Configure, set DVB Settings; Wait for frontend initialisation, Number of adapters to wait for 2, Wait for network 5s. Select OK

Return up to Install from Repository.

Select OpenELEC Mediacenter OS Add-ons, PVR Clients, Tvheadend HTSP Client then Install

Select the Tvheadend HTSP Client, Configure set Data Transfer, Asynchronous RPG Transfer to on.

Return to Home and Reboot

Note: - Do not enable TV until TVHeadend is set up

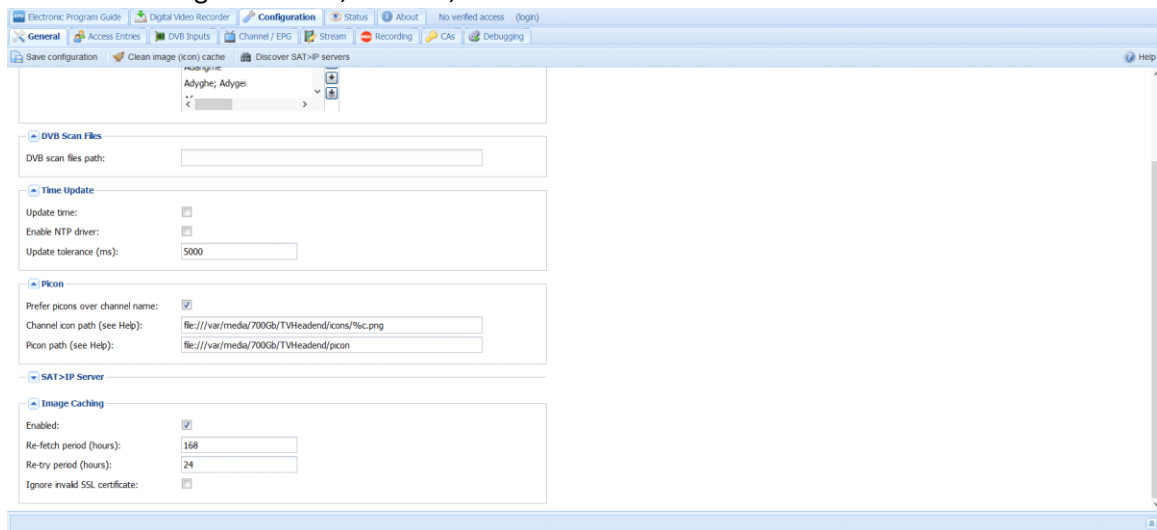
## TVHeadend Setup

Using a webbrowser go to [http:// HYPERLINK \"http://yourwetekip:9981/\"yourwetekip HYPERLINK \"http://yourwetekip:9981/\":9981](http://HYPERLINK \) – this will (if TVHeadend is installed) display the TVHeadend interface.

## Picons and Icons

If you have them available you should setup the folders containing your picons and icons.

Select the Configuration tab, General,



In the Picon section select Prefer picons over channel name:

Provide paths for Icons and Picons. The help section provides examples on types of path. I use local file storage e.g. <file:///var/media/700Gb/TVHeadend/icons/%c.png>

If you are using remote locations you can enable Image Caching to have them stored locally.

Save the configuration.

## Configure the Network

Select the Configuration tab, DVB Inputs, Networks then Add.

Select DVB-S Network and set a Network Name e.g. Wetek,

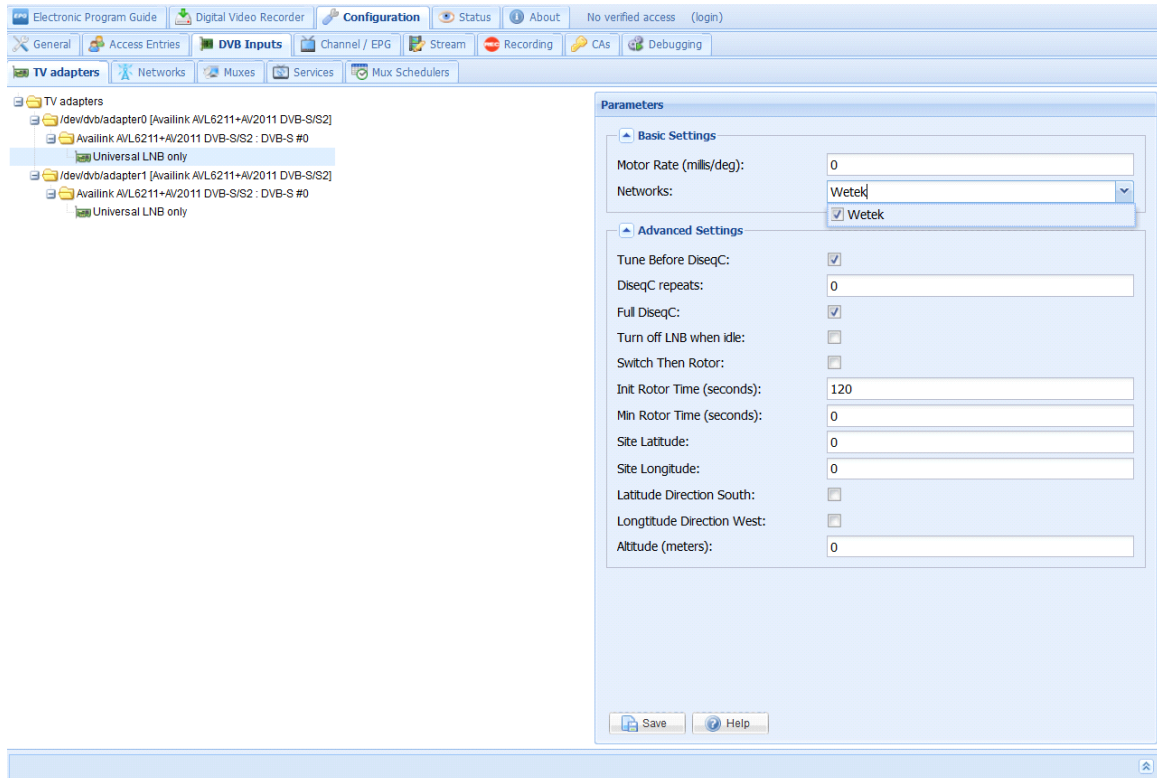
Choose Pre-defined Muxes. 28.2E:Astra for Freesat,

## Select Create.

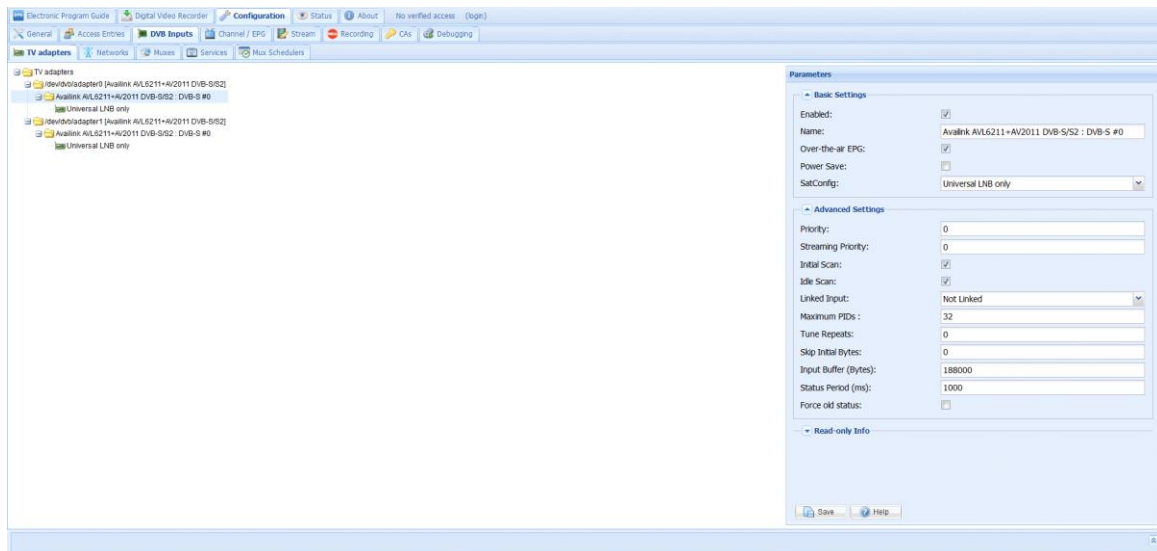
The screenshot displays a software interface with a menu bar at the top containing 'Electronic Program Guide', 'Digital Video Recorder', 'Configuration', 'Status', 'About', and 'No verified access (login)'. Below the menu bar are several tabs: 'General', 'Access Entries', 'DVB Inputs', 'Channel / EPG', 'Stream', 'Recording', 'CAs', and 'Debugging'. A secondary set of tabs includes 'TV adapters', 'Networks', 'Muxes', 'Services', and 'Mux Schedulers'. A toolbar below these tabs contains 'Save', 'Undo', 'Add', 'Delete', 'Edit', and 'Force Scan'. The main area shows a table with columns: 'Network Name', 'Network ...', 'Skip Initial...', 'Service ID...', 'Ignore Pr...', 'SAT>IP Source...', '# Muxes', '# Services', '# Mapped Cha...', and 'Scan Q length'. A dialog box titled 'Add DVB-S Network' is open, featuring two sections: 'Basic Settings' and 'Advanced Settings'. The 'Basic Settings' section includes: 'Network Name' (text field with 'Wetek'), 'Network Discovery' (checked checkbox), 'Skip Initial Scan' (checked checkbox), 'Service IDs as Channel Numbers' (unchecked checkbox), 'Ignore Provider's Channel Numbers' (unchecked checkbox), 'SAT>IP Source Number' (text field with '0'), 'Pre-defined Muxes' (dropdown menu with '> 28.2E:Astra'), and 'Orbital Position' (dropdown menu with 'Select Orbital Position ...'). The 'Advanced Settings' section includes: 'Network ID (limit scanning)' (text field with '0'), 'Idle Scan Muxes' (unchecked checkbox), 'Character Set' (dropdown menu with 'Select Character Set ...'), and 'EIT Local Time' (unchecked checkbox). At the bottom of the dialog are 'Cancel' and 'Create' buttons. The bottom of the interface shows a status bar with 'Page 1 of 1', 'Auto-refresh' (checked), and 'No networks to display | Per page 50'.

Configure TV Adapters  
Switch to the TV adapters tab

On Universal LNB only entries associate them with the Network created earlier and Save.



For each LNB select the folder above then the Enable checkbox and Save




## Muxes

Go to the Muxes tab.

TVHeadend will list all the Muxes and initially show Scan Status as PEND.

TVHeadend will then scan all the Muxes for services. This will take some time to finish.

Pla	Ena	EPG Scan	Network	Name	Ori...	Tra...	Scan Status	Scan Result	# Servic...	# Cha...	AC-3 Detection
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11538V	65...	65...	IDLE	FAIL	0	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11567.5V	2	2096	IDLE	OK	17	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11582.25H	2	2097	IDLE	OK	15	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11597V	2	2316	IDLE	OK	20	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11611.75H	2	2099	IDLE	OK	3	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11671.75H	2	2103	IDLE	OK	12	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11685.5V	2	2104	IDLE	OK	29	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11307H	2	2109	IDLE	OK	16	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11307H	2	2110	IDLE	OK	17	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11344H	2	2313	IDLE	OK	12	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11344.5V	2	2112	IDLE	OK	17	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11385H	2	2113	IDLE	OK	9	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11385V	2	2408	IDLE	OK	10	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11425H	59	2315	IDLE	OK	20	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11425V	2	2116	IDLE	OK	13	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11225H	2	2115	IDLE	OK	22	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11225V	2	2106	IDLE	OK	5	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11265H	2	2107	IDLE	OK	19	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11265V	2	2108	IDLE	OK	10	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	12000H	59	2000	PEND	NONE	0	0	Standard
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enable (auto)	Wetek	11126.5V	2	2088	PEND	NONE	0	0	Standard

Progress can be seen via the log information accessed via the  button at the bottom right of the window.

Alternatively you can watch the status page Stream or Subscriptions tabs.

ID	Hostname	Username	Title	Channel	Service	Start	State	Errors	Input (kbit/s)	Output (kbit/s)
00000068	scan	scan		12344H in Wetek		Sat 25 Jun 16:44	Running	0	0	0
00000069	scan	scan		12363V in Wetek		Sat 25 Jun 16:44	Running	0	0	0

```

System log
2016-06-25 16:40:32.808 bouquet: new bouquet 'BSkyB bouquet 10 - Commercial S: Unudse'
2016-06-25 16:40:32.806 bouquet: new bouquet 'BSkyB bouquet 10 - Commercial S: Granplan'
2016-06-25 16:40:40.069 mpegts: 11668V in Wetek scan complete
2016-06-25 16:40:40.069 subscription: 0030: "scan" unsubscribing
2016-06-25 16:40:40.080 mpegts: 11024H in Wetek - tuning on Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0
2016-06-25 16:40:40.118 opentv-ausat: registering mux 11024H in Wetek
2016-06-25 16:40:40.130 subscription: 0041: "scan" subscribing to mux "11024H", weight: 5, adapter: "Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0", network: "Wetek", service: "Raw PID Subscription"
2016-06-25 16:40:47.633 bouquet: new bouquet 'BSkyB bouquet 14 - Interactive: North Yorkshire'
2016-06-25 16:40:47.688 bouquet: new bouquet 'BSkyB bouquet 6 - HD Scotland: Border Scotland'
2016-06-25 16:40:50.713 bouquet: new bouquet 'BSkyB bouquet 1 - DTH England: South Lakeland'
2016-06-25 16:40:50.714 bouquet: new bouquet 'BSkyB bouquet 1 - DTH England: North Yorkshire'
2016-06-25 16:40:50.714 bouquet: new bouquet 'BSkyB bouquet 1 - DTH England: Border England'
2016-06-25 16:40:50.714 bouquet: new bouquet 'BSkyB bouquet 1 - DTH England: Granada'
2016-06-25 16:40:52.140 bouquet: new bouquet 'BSkyB bouquet 9 - Commercial En: South Lakeland'
2016-06-25 16:40:52.141 bouquet: new bouquet 'BSkyB bouquet 9 - Commercial En: North Yorkshire'
2016-06-25 16:40:52.142 bouquet: new bouquet 'BSkyB bouquet 9 - Commercial En: Border England'
2016-06-25 16:40:52.142 bouquet: new bouquet 'BSkyB bouquet 9 - Commercial En: Granada'
2016-06-25 16:40:53.106 bouquet: new bouquet 'BSkyB bouquet 2 - DTH Scotland: Border Scotland'
2016-06-25 16:40:54.634 bouquet: new bouquet 'BSkyB bouquet 10 - Commercial S: Border Scotland'
2016-06-25 16:40:55.654 bouquet: new bouquet 'BSkyB bouquet 5 - HD England: South Lakeland'
2016-06-25 16:40:55.654 bouquet: new bouquet 'BSkyB bouquet 5 - HD England: North Yorkshire'
2016-06-25 16:40:55.654 bouquet: new bouquet 'BSkyB bouquet 5 - HD England: Border England'
2016-06-25 16:40:55.654 bouquet: new bouquet 'BSkyB bouquet 5 - HD England: Granada'
2016-06-25 16:40:59.690 mpegts: 11052.75H in Wetek scan complete
2016-06-25 16:40:59.693 subscription: 003P: "scan" unsubscribing
2016-06-25 16:40:59.708 mpegts: 10994H in Wetek - tuning on Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0
  
```

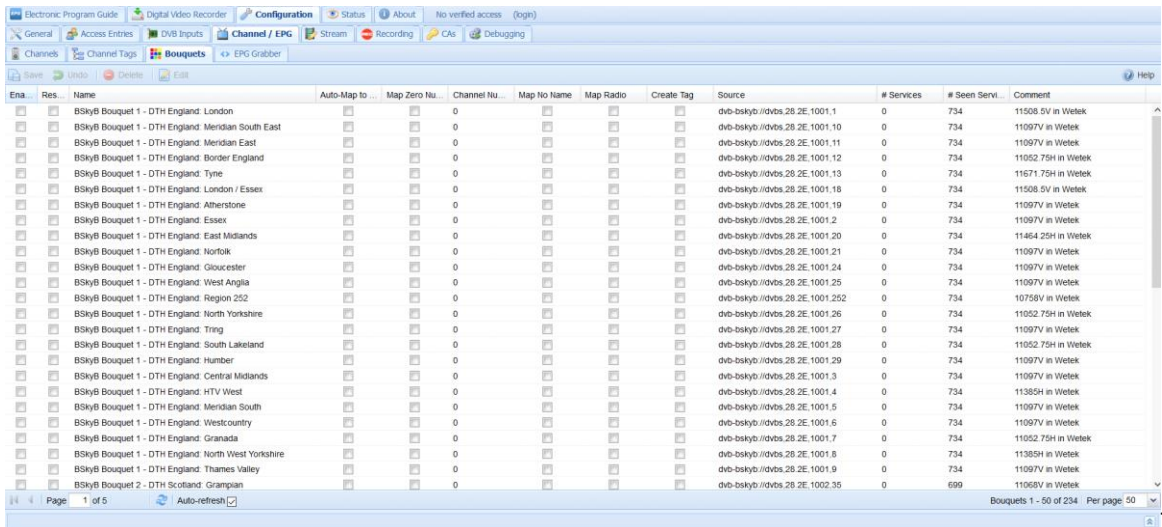
## Bouquets

When the Muxes scan has completed (approx. 15 – 20 Minutes) TVHeadend will have discovered the available Services. Bouquets can now be used to map those Service to channels.

For this exercise I am setting up freesat but this can be used for Sky as well.

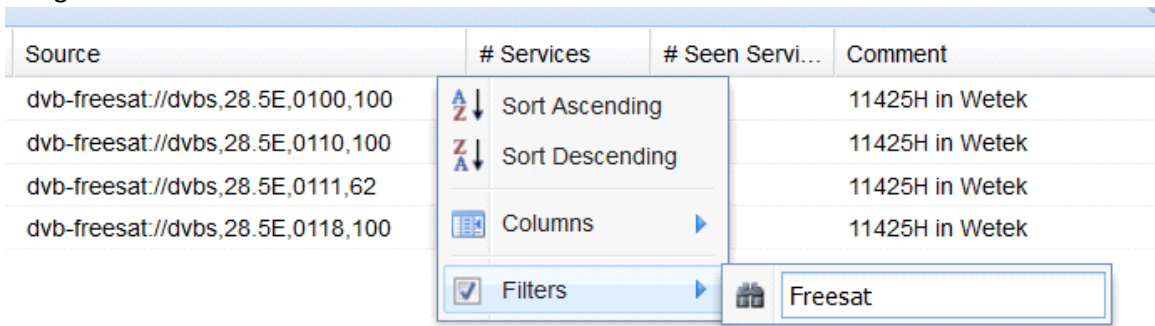
Go to Configuration, Channel / EPG tab then the Bouquets tab.

If you see nothing Refresh the Browser window and try again.



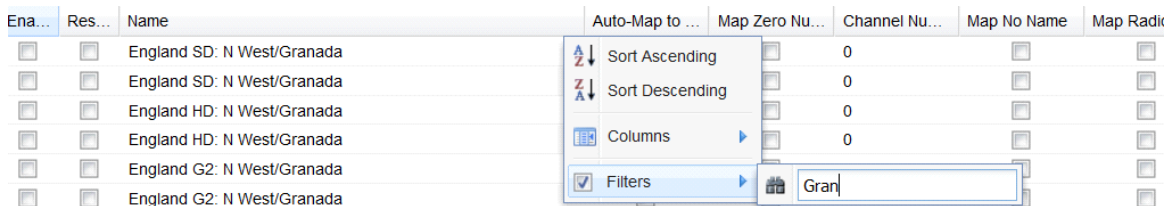
This

displays the Bouquets that have been found. Filter these via the #Service Column dropdown list using Freesat as the filter.

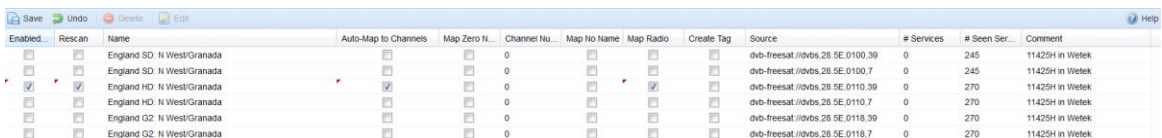


Initially not all Freesat Bouquets are listed, to get these on the England HD: - line select Enabled and rescan, now select Save. The list should refresh and all Freesat Bouquets are listed.

Either scroll through the pages to find the name of your region e.g. England HD: N West/Granada or filter the name column.



For one of the HD lines select Enabled, Rescan Auto Map to Channels and (if you want to) Map Radio as well. The Save



TVHeadend will now subscribe to the Channels in the Bouquets. (this can be seen in the log screen if you have it open.)

## Channels

Select the Channels tab to see the channels, these will have the Freesat channel numbers and will have appropriate tags for SD, HD, TV Channels and Radio for your region.

Play	Ena.	Name	Number	User Icon	Aut.	EPG Source	Services	Tags	Bouquet (auto)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC One N West	101	picon://1_0_1_1929_7FF_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10803H/BBC One N West	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC Two HD	102	picon://1_0_19_1B1C_802_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10847V/BBC Two HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV	103	picon://1_0_1_276D_7FC_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10758V/ITV	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Channel 4	104	picon://1_0_1_23FE_7F9_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10714Z/5H/Channel 4	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Channel 5HD	105	picon://1_0_19_1E46_809_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10864H/Channel 5HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC One HD	106	picon://1_0_19_1B1D_802_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10847V/BBC One HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC Four HD	107	picon://1_0_19_22E3_802_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/11024H/BBC Four HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC Two Eng	108	picon://1_0_1_189E_7FD_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10773H/BBC Two Eng	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC ALBA	109	picon://1_0_1_1917_7FF_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10803H/BBC ALBA	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BBC Four	110	picon://1_0_1_184C_7FD_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10773H/BBC Four	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV HD	111	picon://1_0_19_5104_80F_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/11052Z/5H/ITV HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV +1	112	picon://1_0_1_280F_806_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10906V/ITV +1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV2	113	picon://1_0_1_275B_7FC_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10758V/ITV2	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV2+1	114	picon://1_0_1_275B_805_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10891H/ITV2+1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV3	115	picon://1_0_1_2814_806_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10906V/ITV3	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV3+1	116	picon://1_0_1_2815_806_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10906V/ITV3+1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITV4	117	picon://1_0_1_275B_7FC_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10758V/ITV4	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITVBe	118	picon://1_0_1_275B_7FC_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10758V/ITVBe	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITVBe+1	119	picon://1_0_1_275B_805_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10891H/ITVBe+1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S4C HD	120	file://var/media/700Gb/TVHeadend/cons	<input checked="" type="checkbox"/>		Wetek/11307H/S4C HD	HDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Channel 4 +1	121	picon://1_0_1_207A_7FA_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10729V/Channel 4 +1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	E4	122	picon://1_0_1_2071_7FA_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10729V/E4	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	E4+1	123	picon://1_0_1_206C_7FA_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10729V/E4+1	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	More4	124	picon://1_0_1_2094_7FA_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10729V/More4	SDTV,TV channels	England HD: N West/Granada
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	More4 +1	125	picon://1_0_1_240E_7F9_2_11A0000_...	<input checked="" type="checkbox"/>		Wetek/10714Z/5H/More4 +1	SDTV,TV channels	England HD: N West/Granada

Having setup Picon and Icon information earlier TVHeadend will also pickup information for the Channel Icons.

You may want to disable channels that you do not want or need by unticking the Enable box for the channel and saving. For example none of the Interactive channels will work with TVHeadend.

## Additional Channels

There are additional FTA channels that are not mapped by this process which you may wish to include.

To view additional channels go to Configuration, DVB Inputs, Services tab, you can now filter on Encrypted to see all the unencrypted services. If there is a channel name this shows it has already been mapped.

Find the names of the channels you want to add and make a note of its Mux e.g. Horse & Country 11567.5V

On the Configuration, Channel /EPG, Channels tab select the Add button on the tool bar.

Enter the name of your Channel, Choose the associated Service (The mux will help you find it) select the Tags you want, enable then select Create.

The screenshot displays the 'Add Channel' dialog box in the EPG Grabber application. The dialog is divided into two main sections: 'Basic Settings' and 'Advanced Settings'. In the 'Basic Settings' section, the 'Name' field contains 'Horse & Country', the 'Number' field contains '655', and the 'Services' dropdown is set to 'Wetek/11567.5V/Horse & Country'. The 'Tags' dropdown is set to 'SDTV,TV channels'. The 'Advanced Settings' section shows 'DVR Pre' and 'DVR Post' both set to '0'. The background shows a list of channels with columns for Name, Number, User Icon, Auto EPG, EPG Source, Services, Tags, and Bouquet. At the bottom, a system log window shows various log entries related to channel subscriptions and tuning.

Plat	E...	Name	Nu...	User Icon	Auto EPG ...	EPG Source	Services	Tags	Bouquet (auto)
Pla	✓	Channel AKA	515	Avatar/media/16Gb/Icons	✓		Wetek/11265H/Channel ...	SDTV,TV channels	England HD: N West/Gra...
Pla	✓	CBBC HD	600	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	CBeebies HD	601	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	CITY	602	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	POP	603	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Kix	604	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Tiny Pop	605	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Kix+1	606	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	CBBC	607	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	CBeebies	608	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Tiny Pop +1	609	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Community	651	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Forces TV	652	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	SONY SAB	660	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Rishtey	661	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	COLORS	662	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Inspiration	690	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	DAYSTAR	691	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	revelation	692	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	Islam Channel	693	Avatar/...				V channels	England HD: N West/Gra...
Pla	✓	OD Channel	604	Avatar/...				V channels	England HD: N West/Gra...

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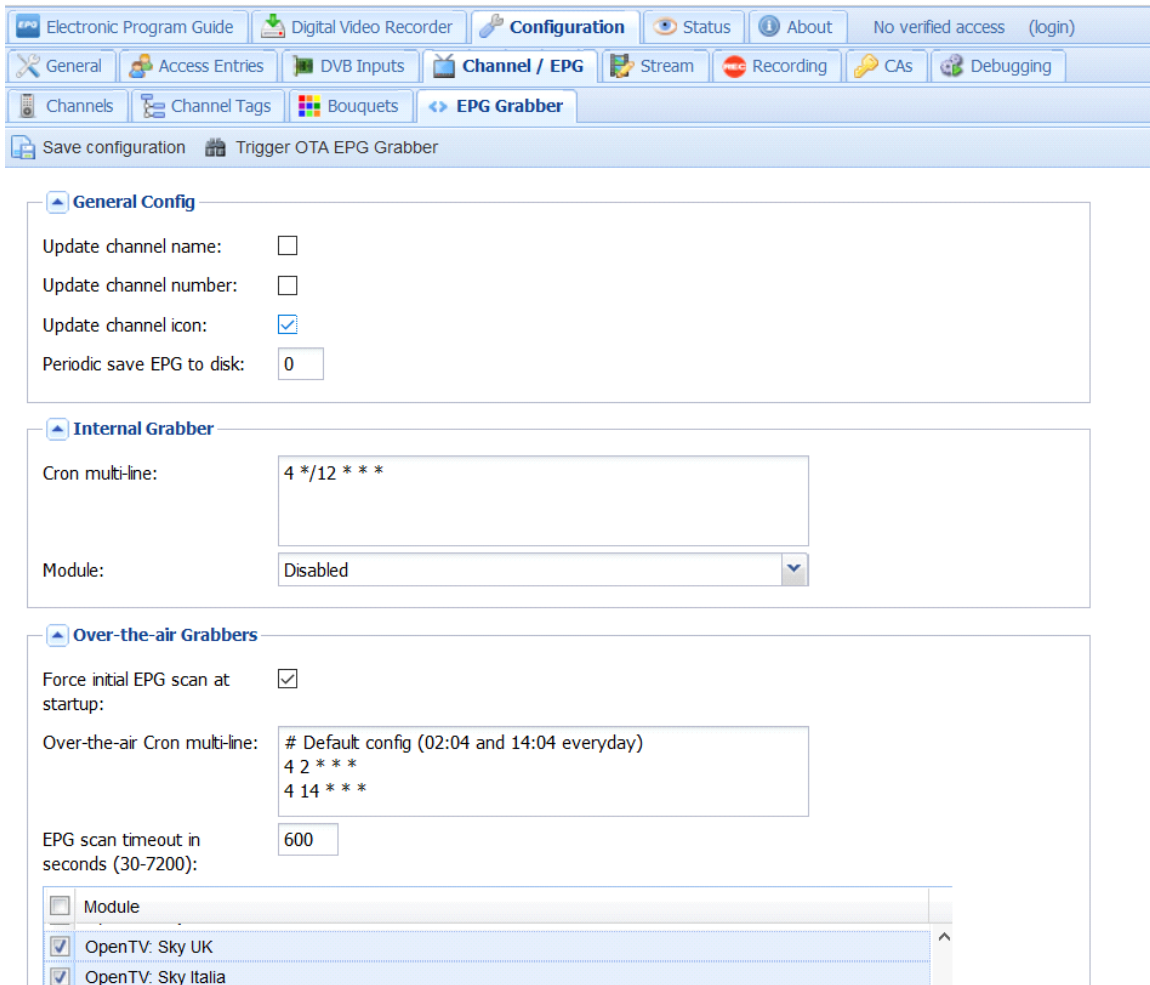
System log
2016-01-16 10:49:09.001 epgrab: VIASAT: Baltio - data completion timeout for 10806V in Wetek
2016-01-16 10:49:09.001 subscription: 00B9: "epgrab" unsubscribing
2016-01-16 10:49:10.000 mpegts: 11052.75H in Wetek - tuning on Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0
2016-01-16 10:49:10.003 subscription: 00BD: "epgrab" subscribing to mux "11052.75H", weight: 4, adapter: "Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0"
2016-01-16 10:49:31.000 epgrab: EIT: DVB Grabber - data completion timeout for 10906V in Wetek
2016-01-16 10:49:31.000 epgrab: UK: Presat - data completion timeout for 10906V in Wetek
2016-01-16 10:49:31.000 epgrab: VIASAT: Baltio - data completion timeout for 10906V in Wetek
2016-01-16 10:49:31.000 subscription: 00BB: "epgrab" unsubscribing
2016-01-16 10:49:32.000 mpegts: 11954H in Wetek - tuning on Availink AVL6211+AV2011 DVB-S/S2 : DVB-S #0
  
```



## EPG Grabber

### General Config

You may wish to set General Config elements to update Channel Name Number or Icon from grabber supplied information.



Electronic Program Guide Digital Video Recorder Configuration Status About No verified access (login)

General Access Entries DVB Inputs Channel / EPG Stream Recording CAS Debugging

Channels Channel Tags Bouquets EPG Grabber

Save configuration Trigger OTA EPG Grabber

**General Config**

Update channel name:

Update channel number:

Update channel icon:

Periodic save EPG to disk:

**Internal Grabber**

Cron multi-line:

Module:

**Over-the-air Grabbers**

Force initial EPG scan at startup:

Over-the-air Cron multi-line:   
4 2 \* \* \*  
4 14 \* \* \*

EPG scan timeout in seconds (30-7200):

Module	
<input type="checkbox"/> Module	
<input checked="" type="checkbox"/> OpenTV: Sky UK	
<input checked="" type="checkbox"/> OpenTV: Sky Italia	

Having made any changes Save the configuration.

### Over the Air Grabbers

As standard TVHeadend will default to having a number of grabbers configured. You can see this if you go to the Electronic Program Guide as this will have started populating once the Channels were mapped via the Bouquets.

You may wish to just enable the UK: Freesat and EIT: DVB Grabbers

Electronic Program Guide Digital Video Recorder Configuration Status About No verified access (login)

General Access Entries DVB Inputs Channel / EPG Stream Recording CAS Debugging

Channels Channel Tags Bouquets EPG Grabber

Periodic save EPG to disk: 0

Internal Grabber

Cron multi-line: 4 \*/12 \* \* \*

Module: Disabled

Over-the-air Grabbers

Force initial EPG scan at startup:

Over-the-air Cron multi-line: # Default config (02:04 and 14:04 everyday)  
4 2 \* \* \*  
4 14 \* \* \*

EPG scan timeout in seconds (30-7200): 600

Module	Checked
Module	<input type="checkbox"/>
OpenTV: Sky UK	<input checked="" type="checkbox"/>
OpenTV: Sky Italia	<input checked="" type="checkbox"/>
VIASAT: Baltic	<input checked="" type="checkbox"/>
UK: Freeview	<input checked="" type="checkbox"/>
UK: Freesat	<input checked="" type="checkbox"/>
EIT: DVB Grabber	<input checked="" type="checkbox"/>

External Interfaces

Having made any changes Save the configuration.

At any time you can use the Trigger OTA Grabber to update the EPG.

## XMLTV EPG Data

### 1<sup>st</sup> Get your data

The method I use to get my data is from Schedules direct using mc2xml on a separate Window machine. This is updated daily and the file copied to the USB attached to my Wetek.

### Configure TVHeadend

We must firstly stop any over the air Grabbers.

Open the TVHeadend web interface and go to Configuration, Channel /EPG.

In the Over the air Grabbers section deselect all the over the air grabbers and save.

### Configure Kodi

Openelec has a built in script for handling XMLTV data and this first has to be configured via Kodi.

Go to System, Settings, Add-ons, My Addons, Services, tvheadend and Select Configure.

You will then be presented with the XMLTV screen

Set XMLTV Configuration to FILE

Set File Location to the file you are using.

## Reboot

### Configure TVHeadend

Open the TVHeadend web interface and go to Configuration, Channel /EPG (note: Open up the Log section to monitor what happens)

In the Internal Grabber section select the drop down list you should see an XMLTV option, select this and save.

**Internal Grabber**

Cron multi-line:

Module:  (Dropdown menu open showing: Disabled, XMLTV: 101 BBC1SW 101 BBC1SW BBC One (South West) ...)

**Over-the-air Grabbers**

Force initial EPG scan at startup:

In the log section you should see something like this:

```
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: grab
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file
spawn: Executing "/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file"
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: grab took 4 seconds
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: parse took 1 seconds
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: channels tot= 229 new= 0 mod= 0
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: brands tot= 0 new= 0 mod= 0
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: seasons tot= 0 new= 0 mod= 0
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: episodes tot= 0 new= 0 mod= 0
/storage/.kodi/addons/service.multimedia.tvheadend/bin/tv_grab_file: broadcasts tot= 0 new= 0 mod= 0
```

Change to the Channels tab and for each channel you can now select an entry from you XMLTV file by double clicking in the EPG Source column for that channel.

Play	Enabled	Name	Number	User Icon	Auto EPG	EPG Source	Services
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC One N West	101	picon://1_0_1_1929_7FF_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1 (1101.17153.schedulesdirect.or	Wetek/10803H/BBC One N West
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC Two HD	102	picon://1_0_19_1B1C_802_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1EAST (1101.24321.schedulesdir	Wetek/10847V/BBC Two HD
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV	103	picon://1_0_1_2760_7FC_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1EAST (1101.24321.schedulesdir	Wetek/10758V/ITV
<a href="#">Play</a>	<input checked="" type="checkbox"/>	Channel 4	104	picon://1_0_1_23FE_7F9_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1EM (1101.24353.schedulesdirec	Wetek/10714.25H/Channel 4
<a href="#">Play</a>	<input checked="" type="checkbox"/>	Channel SHD	105	picon://1_0_19_1E46_809_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1LDN (1101.30644.schedulesdire	Wetek/10964H/Channel SHD
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC One HD	106	picon://1_0_19_1B1D_802_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1LDN (1101.30644.schedulesdire	Wetek/10847V/BBC One HD
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC Four HD	107	picon://1_0_19_22E3_80D_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1NE (1101.24324.schedulesdirect	Wetek/11024H/BBC Four HD
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC Two Eng	108	picon://1_0_1_189E_7FD_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1NTH (1101.24323.schedulesdire	Wetek/10773H/BBC Two Eng
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC ALBA	109	picon://1_0_1_1917_7FF_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1NW (1101.24325.schedulesdirec	Wetek/10803H/BBC ALBA
<a href="#">Play</a>	<input checked="" type="checkbox"/>	BBC Four	110	picon://1_0_1_18AC_7FD_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1SE (1101.24337.schedulesdirect	Wetek/10773H/BBC Four
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV HD	111	picon://1_0_19_5104_80F_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1STH (1101.24326.schedulesdire	Wetek/11052.75H/ITV HD
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV +1	112	picon://1_0_1_280F_806_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1SW (1101.24327.schedulesdirec	Wetek/10906V/ITV +1
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV2	113	picon://1_0_1_2756_7FC_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1WEST (1101.21788.schedulesdir	Wetek/10758V/ITV2
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV2+1	114	picon://1_0_1_27B5_805_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 101 BBC1WSM (1101.24322.schedulesdir	Wetek/10891H/ITV2+1
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV3	115	picon://1_0_1_2814_806_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 102 BBC1DTV (1102.50059.schedulesdire	Wetek/10906V/ITV3
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV3+1	116	picon://1_0_1_2815_806_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>	XMLTV: 103 ITV1ANG (1103.21824.schedulesdire	Wetek/10906V/ITV3+1
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITV4	117	picon://1_0_1_2758_7FC_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>		Wetek/10758V/ITV4
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITVBe	118	picon://1_0_1_275B_7FC_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>		Wetek/10758V/ITVBe
<a href="#">Play</a>	<input checked="" type="checkbox"/>	ITVBe+1	119	picon://1_0_1_279B_805_2_11A0000_0_0_0.png	<input checked="" type="checkbox"/>		Wetek/10891H/ITVBe+1

Once selected select Save before proceeding to the next page.

Once fully updated change the Internal Grabber back to Disabled and save, then change it back to XMLTV and Save. TVHeadend will reread and parse the XML file to update the EPG this can take some time for this first run..

Note: I do not believe you can mix Over the Air Grabbers with the XMLTV grabber so if you can only get partial XMLTV data you will not be able to select an over the air grabber as the source.

### Some Info & Tips

With some XML data TVHeadend appears to be able to match up the data to channels automatically. Schedules direct has multiple display names for each channel and TVHeadend appears to only look at the first one. e.g.

```
<channel id="I101.24325.schedulesdirect.org">
  <display-name>101 BBC1NW</display-name>
  <display-name>101</display-name>
  <display-name>BBC1NW</display-name>
  <display-name>BBC One (North West)</display-name>
  <display-name>BBC1</display-name>
  <icon src="https://s3.amazonaws.com/schedulesdirect/assets/stationLogos/s24325_h3_aa.png" />
</channel>
```

Note if earlier you set General Config elements to update Channel Name Number or Icon these will be updated from the XMLTV info.

Channel 4	104	<a href="https://s3.amazonaws.com/schedulesdirect/assets/s...">https://s3.amazonaws.com/schedulesdirect/assets/s...</a>	<input checked="" type="checkbox"/>	XMLTV: 104 C4 (I104.17155.schedulesdirect.org)
Channel 5HD	105	<a href="picon://1_0_19_1E46_809_2_11A0000_0_0_0.png">picon://1_0_19_1E46_809_2_11A0000_0_0_0.png</a>	<input checked="" type="checkbox"/>	

If your data does not auto populate the EPG Source then if you quick you can type the channel name or number (if it is in the display-name) to filter the list presented.

## Recording

### Digital Video Recorder Profiles

Under Configuration, Recording, Digital Video Recorder Profiles you can change the defaults so you can have the recordings stored in sub directories and define how the files are named etc.

**Parameters**

**Recording File Options**  
Recording System Path:   
File Permissions (octal, e.g. 0664):   
Filename Charset:   
Tag Files With Metadata:   
Skip Commercials:

**Subdirectory Options**  
Directory Permissions (octal, e.g. 0775):   
Make Subdirectories Per Day:   
Make Subdirectories Per Channel:   
Make Subdirectories Per Title:

**Filename Options**  
Include Channel Name In Filename:  Include Subtitle In Filename:   
Include Date In Filename:  Do Not Include Title To Filename:   
Include Time In Filename:  Remove All Unsafe Characters From Filename:   
Include Episode In Filename:  Replace Whitespace In Title with '-':   
Put Episode In Filename Before Date And Time:  Use Windows-compatible filenames:

## Timeshift

If you want the Timeshift function then go to Configuration, Recording, Timeshift. Set the option to enabled and set the storage path, (mine is on a USB drive and works fine albeit with some stutter on startup). Set the other parameters as meets your needs.

**Timeshift Options**  
Enabled:   
On-Demand:   
Storage Path:   
Max. Period (mins):  Unlimited time:   
Max. Size (MB):  Unlimited size:   
Max. RAM Size (MB):  Use only RAM:

## Enable Kodi to access TVHeadend

Back on the Wetek box, go to System, Settings, TV

### Guide

Select number of days if you want more than 3.

Set Don't Cache in Local Database.

### General

Set Use Channel Numbers from Backend – This means you get the standard channel numbers

Select Enable.

Kodi will now load the TV and Radio information from TVHeadend so when you go back to the Home Menu you will see TV and Radio (if you selected Radio stations earlier) displayed.