

# Digital TV Frontend API

The Digital TV frontend API was designed to support three groups of delivery systems: Terrestrial, cable and Satellite. Currently, the following delivery systems are supported:

- Terrestrial systems: DVB-T, DVB-T2, ATSC, ATSC M/H, ISDB-T, DVB-H, DTMB, CMMB
- Cable systems: DVB-C Annex A/C, ClearQAM (DVB-C Annex B)
- Satellite systems: DVB-S, DVB-S2, DVB Turbo, ISDB-S, DSS

The Digital TV frontend controls several sub-devices including:

- Tuner
- Digital TV demodulator
- Low noise amplifier (LNA)
- Satellite Equipment Control (SEC) [1].

The frontend can be accessed through `/dev/dvb/adapter?/frontend?`. Data types and ioctl definitions can be accessed by including `linux/dvb/frontend.h` in your application.

## Note

Transmission via the internet (DVB-IP) and MMT (MPEG Media Transport) is not yet handled by this API but a future extension is possible.

- [1] On Satellite systems, the API support for the Satellite Equipment Control (SEC) allows to power control and to send/receive signals to control the antenna subsystem, selecting the polarization and choosing the Intermediate Frequency (IF) of the Low Noise Block Converter Feed Horn (LNBf). It supports the DiSEqC and V-SEC protocols. The DiSEqC (digital SEC) specification is available at [Eutelsat](#).

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] frontend.rst, line 50)**

Unknown directive type "toctree".

```
.. toctree::
    :maxdepth: 1

    query-dvb-frontend-info
    dvb-fe-read-status
    dvbproperty
    frontend_fcalls
```