frontend parameters

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-
api][media][dvb]dvb-frontend-parameters.rst, line 3)
Unknown directive type "c:type".
.. c:type:: dvb_frontend_parameters
```

The kind of parameters passed to the frontend device for tuning depend on the kind of hardware you are using.

The struct <code>dvb_frontend_parameters</code> uses a union with specific per-system parameters. However, as newer delivery systems required more data, the structure size weren't enough to fit, and just extending its size would break the existing applications. So, those parameters were replaced by the usage of <code>ref.FE_GET_PROPERTY/FE_SET_PROPERTY</code> <code><FE_GET_PROPERTY></code> ioctl's. The new API is flexible enough to add new parameters to existing delivery systems, and to add newer delivery systems.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb]dvb-frontend-parameters.rst, line 12); backlink
Unknown interpreted text role "ref".
```

So, newer applications should use ref'FE_GET_PROPERTY/FE_SET_PROPERTY instead, in order to be able to support the newer System Delivery like DVB-S2, DVB-T2, DVB-C2, ISDB, etc.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master] [Documentation] [userspace-api] [media] [dvb] dvb-frontend-parameters.rst, line 21); backlink

Unknown interpreted text role "ref".
```

All kinds of parameters are combined as a union in the dvb frontend parameters structure:

In the case of QPSK frontends the frequency field specifies the intermediate frequency, i.e. the offset which is effectively added to the local oscillator frequency (LOF) of the LNB. The intermediate frequency has to be specified in units of kHz. For QAM and OFDM frontends the frequency specifies the absolute frequency and is given in Hz.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-api][media][dvb]dvb-frontend-parameters.rst, line 52)

Unknown directive type "c:type".

.. c:type:: dvb_qpsk_parameters
```

QPSK parameters

For satellite QPSK frontends you have to use the <code>dvb_qpsk_parameters</code> structure:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-
api][media][dvb]dvb-frontend-parameters.rst, line 69)
Unknown directive type "c:type".
.. c:type:: dvb_qam_parameters
```

QAM parameters

for cable QAM frontend you use the dvb gam parameters structure:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-api][media][dvb]dvb-frontend-parameters.rst, line 86)

Unknown directive type "c:type".

.. c:type:: dvb_vsb_parameters
```

VSB parameters

ATSC frontends are supported by the dvb_vsb_parameters structure:

```
struct dvb_vsb_parameters {
    fe_modulation_t modulation; /* modulation type (see above) */
};
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\userspace-api\media\dvb\[linux-master][Documentation][userspace-
api][media][dvb]dvb-frontend-parameters.rst, line 101)

Unknown directive type "c:type".

.. c:type:: dvb_ofdm_parameters
```

OFDM parameters

DVB-T frontends are supported by the dvb ofdm parameters structure: