

# FM Receiver Control Reference

The FM Receiver (FM\_RX) class includes controls for common features of FM Reception capable devices.

## FM\_RX Control IDs

V4L2\_CID\_FM\_RX\_CLASS (class)

The FM\_RX class descriptor. Calling [ref:VIDIOC\\_QUERYCTRL](#) for this control will return a description of this control class.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\ (linux-master) (Documentation) (userspace-api) (media) (v4l) ext-ctrls-fm-rx.rst, line 19); [backlink](#)**

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V4L2\_CID\_RDS\_RECEPTION (boolean)

Enables/disables RDS reception by the radio tuner

V4L2\_CID\_RDS\_RX\_PTY (integer)

Gets RDS Programme Type field. This encodes up to 31 pre-defined programme types.

V4L2\_CID\_RDS\_RX\_PS\_NAME (string)

Gets the Programme Service name (PS\_NAME). It is intended for static display on a receiver. It is the primary aid to listeners in programme service identification and selection. In Annex E of [ref:icc62106](#), the RDS specification, there is a full description of the correct character encoding for Programme Service name strings. Also from RDS specification, PS is usually a single eight character text. However, it is also possible to find receivers which can scroll strings sized as 8 x N characters. So, this control must be configured with steps of 8 characters. The result is it must always contain a string with size multiple of 8.

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V4L2\_CID\_RDS\_RX\_RADIO\_TEXT (string)

Gets the Radio Text info. It is a textual description of what is being broadcasted. RDS Radio Text can be applied when broadcaster wishes to transmit longer PS names, programme-related information or any other text. In these cases, RadioText can be used in addition to V4L2\_CID\_RDS\_RX\_PS\_NAME. The encoding for Radio Text strings is also fully described in Annex E of [ref:icc62106](#). The length of Radio Text strings depends on which RDS Block is being used to transmit it, either 32 (2A block) or 64 (2B block). However, it is also possible to find receivers which can scroll strings sized as 32 x N or 64 x N characters. So, this control must be configured with steps of 32 or 64 characters. The result is it must always contain a string with size multiple of 32 or 64.

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V4L2\_CID\_RDS\_RX\_TRAFFIC\_ANNOUNCEMENT (boolean)

If set, then a traffic announcement is in progress.

V4L2\_CID\_RDS\_RX\_TRAFFIC\_PROGRAM (boolean)

If set, then the tuned programme carries traffic announcements.

V4L2\_CID\_RDS\_RX\_MUSIC\_SPEECH (boolean)

If set, then this channel broadcasts music. If cleared, then it broadcasts speech. If the transmitter doesn't make this distinction, then it will be set.

V4L2\_CID\_TUNE\_DEEMPHASIS

(enum)

enum v4l2\_deemphasis -

Configures the de-emphasis value for reception. A de-emphasis filter is applied to the broadcast to accentuate the high audio frequencies. Depending on the region, a time constant of either 50 or 75 useconds is used. The enum v4l2\_deemphasis defines possible values for de-emphasis. Here they are:

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\linux-master) (Documentation) (userspace-api) (media) (v4l) ext-ctrls-fm-rx.rst, line 79)**

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   * - ``V4L2_DEEMPHASIS_DISABLED``
     - No de-emphasis is applied.
   * - ``V4L2_DEEMPHASIS_50_uS``
     - A de-emphasis of 50 uS is used.
   * - ``V4L2_DEEMPHASIS_75_uS``
     - A de-emphasis of 75 uS is used.
```