

# Metadata series status

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2026-05-26

# Series status

- Work on metadata since ~ 2014
- ~ 5 people have taken turns working on the series
- Most preparation patches merged

# Since the last year

- New controls for line length in pixels and frame length in lines
- New controls for binning factors
- Implement support for the common raw sensor model to two existing drivers
  - Imx219
  - Ov2740

# Common Raw Sensor Model and existing drivers

- Each driver needs to be converted separately
  - Existing implementations fairly quirky
  - New API exposes more information to userspace
- Old API still supported for existing drivers
  - `V4L2_SUBDEV_CAP_COMMON_RAW_SENSOR`
- `struct v4l2_subdev_client` info pointer added to `set_fmt`, `get_selection` and `set_selection` sub-device pad ops

# When should streaming start?

- Streaming controlled through video nodes
- When should a sub-device routing multiple streams over pads start streaming?
- Entire pipeline validated at the time of first `VIDIOC_STREAMON`
  - Pipeline validation entirely implemented in MC, with some control via media entity ops
- Starting streaming is in control of the driver
  - No particular policy enforced right now

# When to merge?

- New UAPIs should have users
- libcamera
- libcamera tested with imx219 preparation patches
  - Some changes needed?