

How to set the interlaced mode

The phrases shown in *italics* are issues raised in [this](#) page . This one-pager provides answers to questions/problems raised in it.

“Because the Android S framework cannot recognize the interlace mode, the interlace mode will be filtered out when reporting from the HWC. If you get the supportlists through the framework, you can obtain the all real display mode by TV except interlace mode. Namely: The mode set at the driver is the mode reported by HWC to the framework. Because the Android S framework cannot recognize the interlace mode, it cannot report the interlace mode, so it cannot be set by Real mode and framework.”

The framework cannot distinguish between interlaced and progressive mode. This does not mean the interlace mode always has to be filtered out when reporting from the HWC.

For example: say TV HW supports:

- 2160p 60Hz (0)
- 1080p 60Hz (1)
- 1080p 50Hz (2)
- 1080i 60Hz (3)
- 1080i 50Hz (4)

While passing the mode to framework, the HW should avoid duplicate modes. So, to the framework the following should be passed:

Config	VSYNC_PERIOD	WIDTH	HEIGHT
0	60 (0)	3840	2160
1 or 3	60	1920	1080
2 or 5	50	1920	1080

But, the hw can map these to any config it wants:

Option 1	Option 2	Option 3	Option 4
2160p 60Hz (0)	2160p 60Hz (0)	2160p 60Hz (0)	2160p 60Hz (0)

1080p 60Hz (1)	1080i 60Hz (3)	1080p 60Hz (1)	1080i 60Hz (3)
1080p 50Hz (2)	1080i 50Hz (4)	1080i 50Hz (4)	1080p 50Hz (2)

Similarly, when the framework tells HW to choose an activeConfig, it does so using configId, so it should not be a problem.

After this structure, all the tests HDMIEdidHostTest, and CTS-V test should pass. If you after making these changes, the test still fails, please let us know.