



Non-CE8: Limited number of filters per picture for ALF

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Overall Summary

- In the current ALF of HM-4.0, up to 16 filters per picture can be used for luma
- Low resolution videos may not need so many filters in a picture, while high resolution videos may need.
- In this proposal
 - Define the maximum number of filters per picture
 - Proper values should be defined in profiles and levels.
 - The encoder will merge regions/classes until the constraint is satisfied.
 - No need to change decoder
 - Propose to tentatively use up to 16 filters per picture in the common test conditions
- Simulation results
 - Up to 10 filters per picture, no coding efficiency loss
 - Up to 6 filters per picture, 0-0.1% loss can be observed