

Additional H.241 Parameter in the RTP Payload Format for H.264 Video

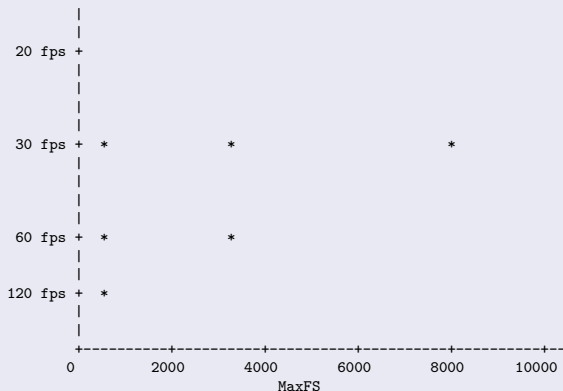
draft-kristensen-avt-rtp-h241param-01

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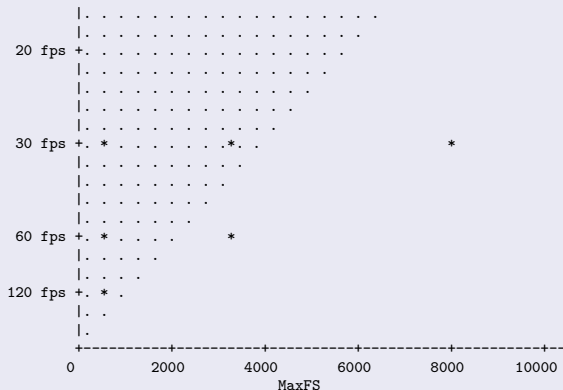
Encoder capabilities

- Can encode at one of three resolution: wCIF, w720p, w1080p
- And three different frame rates: 30, 60, 120 fps
- Not all combinations possible or feasible



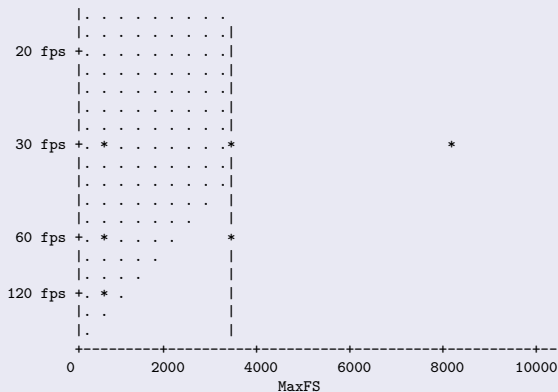
MaxMBPS indicated

- Decoder signal capabilities
- Here it can decode 108000 mbps



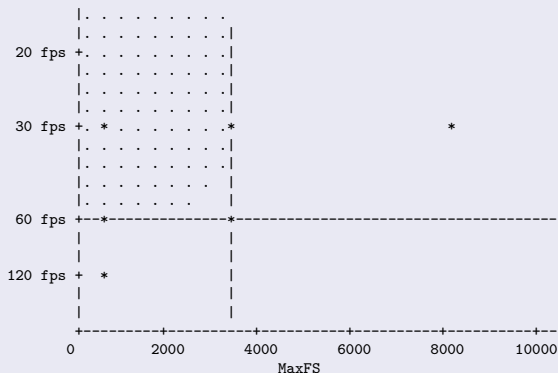
MaxFS added

- Further constrained as decoder signals max frame size



Introducing max-fps

- Signalling of maximum frames per second that can be efficiently received or that can be sent
- Here max-fps further limits the allowed parameter space



- Video at above 30 fps more and more common
 - Signal desired frame rate to
 - optimise resolution choices,
 - avoid unnecessary resource/energy usage, and
 - where applicable extend battery duration
 - Straight forward gatewaying H.323 - SIP
 - MaxFPS in H.241, defines max-fps for SDP here
 - max-fps MAY be used. Encoders free to send higher.
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- SDP a=framerate, media level for video
 - May or may not work
 - Other codecs has own frame rate parameters
 - H.261/H.263 MPI, assumed upper bound of 30 fps
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- Discussion: Next steps.