Mean Opinion Score-MOS 2021/1/28

Some suitable English-language phrases used for determining a MOS as suggested by ITU-T recommendation

You will have to be very quiet.
There was nothing to be seen.
They worshipped wooden idols.
I want a minute with the inspector.
Did he need any money?

In multimedia (audio, voice telephony, or video) especially when codec are used to compress the banwidth requirement.

(for example, of a digitized voice connection from the standard 64 kilobit/second PCM Modulation),

The Mean Opinion Score (MOS) provides a numerical indication of the perceived quality of received media after compression and/or transmission.

The MOS is expressed as a single number in the range 1 to 5, where 1 is lowest perceived quality, and 5 is the highest perceived quality.

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The MOS is generated by averaging the results of a set of standard.

subjective tests where a number of listeners rate the heard audio quality of test sentences read aloud by both male and female speakers over the communications medium being tested.

A listener is required to give each sentence a rating using the following rating scheme:

	Mean Opinion Score (MOS)			
N	AOS	Quality	Impairment	
	5	Excellent	Imperceptible	
	4	Good	Perceptible but not annoying	
	3	Fair	Slightly annoying	
	2	Poor	Annoying	
	1	Bad	Very annoying	

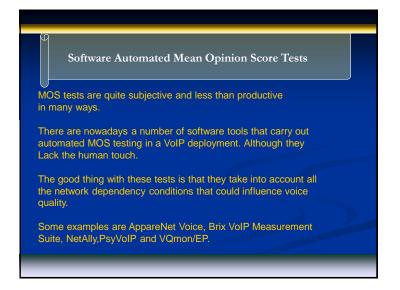
A typical range for Voice over IP would be from 3.5 to 4.2.

The MOS is the arithmatic mean of all the individual scores, and can range from 1 (worst) to 5 (best).

User Opinion				
User Opinion Score	MOS			
Maximum obtainable for G.711	4.4			
Very satisfied	4.3-5.0			
Satisfied	4.0-4.3			
Some users satisfied	3.6-4.0			
Many users dissatisfied	3.1-3.6			
Nearly all users dissatisfied	2.6-3.1			
Not recommended	1.0-2.6			

	Codec	Data rate [kbit/s]	Mean Opinion	
			Score (MOS)	
	G.711	64	4.3	
	iLBC	15.2	4.14	
	AMR	12.2	4.14	
	G.729	8	3.92	
	G.723.1r63	6.3	3.9	
	GSM FER	12.2	3.8	
	G.726 ADPCM	32	3.8	
	G.729a	8	3.7	
	G.723.1r53	5.3	3.65	
21/1/28	GSM FR	12.2	3.5	

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Conclusion

At last, we conclude that Mean Opinion Score is one of the better and reliable ways to estimate the quality of service for a VoIP Network.

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