

## Configure Real-Time Monitoring



For supported software information, click here.

Versa Operating System<sup>TM</sup> (VOS<sup>TM</sup>) real-time monitoring (RTM) monitors real-time audio, video, and voice flows for quality and user experience, which is reported in a mean opinion score (MOS) that represents the user experience of the audio, video, and voice applications. Network impairments, such as loss, jitter, delay over a link between clients, and the codec used affect the MOS score of real-time applications.

RTM works in conjunction with the VOS application identifier (AppID) engine to compute the MOS score. The AppID engine intercepts RTP and RTCP flows and sends a copy of the packets to RTM. RTM processes the stream to determine the codec, delay, loss, and jitter, and then uses this information to calculate the MOS score. RTM performs the MOS computation in real time, for example, when a voice call is active, not after the call ends. The VOS device then uses the computed MOS as an input for other components such as SD-WAN SLA profiles.

Enabling RTM has no impact on system load or performance.

VOS devices support the following audio, video and voice codecs:

C 2 Audio	SV7200	AMD ND	MC DT Audio ND	Onus CELT
C-3 Audio	SX7300	AMR-NB	MS RT Audio NB	Opus CELT
MPEG-4 AAC	SX9600	7.95k	(FEC)	NB
		AMR-NB	GIPS	Opus CELT
MPEG-4 LD-AAC	G.711 A-law	7.4k	G.729	WB
MPEG-4 HE-AAC	G.711 A-law/	AMR-NB	Silk	Opus CELT
WMA Professional	PLC	6.7k	NB	SWB
MPEG-4 HE-	G.726 16k	AMR-NB	Silk NB	Opus CELT
AACv2	G.726 24k	5.9k	(FEC)	FB
MPEG-4 LC-AAC	G.726 32k	AMR-NB	Silk	EVS NB
20 . 20		5.15k	MB	E. (0.115
AMR-WB+	G.726 40k			EVS NB
		AMR-NB	Silk MB	(FEC)
Vorbis	GIPS Enhanced G.711	4.75k	(FEC)	
	u-law			EVS

JPEG-compressed	GIPS Enhanced G.711	iLBC 13.3k	Silk	WB
Video	A-law		WB	
		iLBC 15.2k		EVS WB
MPEG-1 Video	GIPS iLBC		Silk WB	(FEC)
		G.711 u-law	(FEC)	
MPEG-2 Video	GIPS iSAC	56k		EVS
H.261	GIPS iPCM-	G.711 u-law/PLC	Silk	SWB
П.201	wb	56k	SWB	EVS SWB
H.263	WD	JOK	Silk SWB	
	G.729E 8.0k	G.711 A-law		(FEC)
H.263+	0202 0.0	56k	(FEC)	EVS FB
	G.729E 11.8k		EVRC-	
H.264		G.711 A-law/PLC	WB	EVS FB
	WB Linear	56k	***	(FEC)
	PCM		EVRC-	
VC1	WD I BOM	G.723.1-Annex	NW	L16 NB
	WB Linear PCM/	С		L 40 ND/
On2 VP6	PLC		AMR-	L16 NB/
	G.722 64k	Speex NB	WB+	PLC
H.264 SVC	0.722 04K	2.15k		L16 WB
	G.722 56k	Speex NB	Siren7/G.722.1	LIOVID
VP8		5.95k	16k	L16 WB/
VP9	G.722 48k	0.95K	Siren14/	PLC
VF9		Speex NB 8k	G.722.1C 24k	
H.265	Siren7/G.722.1		G.722.10 24K	L16
	32k	Speex NB	Siren14/	SWB
G.711 u-law	Circ. n.7/C. 700.4	11k	G.722.1C 32k	
	Siren7/G.722.1		0.1 22.1 0 02.K	L16 SWB/
G.711 u-law/	24k	Speex NB 15k	Siren14/	PLC
PLC	AMR-WB/G.722.2		G.722.1C 48k	LACED
O 700 4 E 0k	23.85k	Crass ND		L16 FB
G.723.1 5.3k		Speex NB	Siren14/	L16 FB/
G.723.1 6.3k	AMR-WB/G.722.2	18.2k	G.722.1C 24k	PLC
0.720.1 0.0K	23.05k	Speex NB	(LPR)	
G.728		24.6k	Olympia 4.47	G.722 64k
	AMR-WB/G.722.2	_ 1.0K	Siren14/	
G.729/	19.85k	Speex NB	G.722.1C 32k	G.722 56k
G.729B	AMB MB/6 =00.0	3.95k	(LPR)	0.700.401
0.7004/	AMR-WB/G.722.2		Siren14/	G.722 48k
G.729A/	18.25k	Speex WB	G.722.1C 48k	
G.729AB	AMR-WB/G.722.2	34.2k	(LPR)	G.722 64k/PLC
	/ NVII (= V V D/ O. 1 ZZ.Z		(LI IV)	0.722 OTIVI LO

GSM-FR	15.85k	Speex WB	Siren22	App. 3
		42.2k	32k	
GSM-HR	AMR-WB/G.722.2			G.722 56k/PLC
0014 555	14.25k	BroadVoice	Siren22	App. 3
GSM-EFR		BV16	48k	
	AMR-WB/G.722.2			G.722 48k/PLC
	12.65k	BroadVoice	Siren22	App. 3
	AMR-WB/G.722.2	BV32	64k	G.722 64k/PLC
	8.85k	IS 54	Siren22 32k	App. 4
	0.03K	10 04	(LPR)	Αρφ. 4
	AMR-WB/G.722.2	PDC 6.7k	(LFK)	G.722 56k/PLC
	6.6k		Siren22 48k	App. 4
		AMBE2Plus	(LPR)	
	QCELP8	2.4k		G.722 48k/PLC
			Siren22 64k	App. 4
	QCELP13	AMBE2Plus	(LPR)	
	EVRC	3.2k		iSAC
	EVRC	AMBE2Plus	G.719	WB
	SMV		32k	:040
	S.i.i.v	4k	0.740	iSAC
	AMR-NB	AMBE2Plus	G.719	SWB
	12.2k	4.8k	48k	iSAC WB
		4.010	G.719	NetEQ
	AMR-NB	EVRC-B	64k	THOLEG
	10.2k		OHK	iSAC SWB
		MS RT Audio	Opus Silk	NetEQ
	Speex WB	WB	NB	
	12.8k			iSAC WB
	Speex WB	MS RT Audio	Opus Silk NB	NetEQ4
	16.8k	NB	(FEC)	
	10.0K	MS RT Audio WB		iSAC SWB
	Speex WB		Opus Silk	NetEQ4
	20.6k	(FEC)	MB	AMD ND
			Onus Cille MD	AMR-NB
	Speex WB		Opus Silk MB	(VBR)
	23.8k		(FEC)	AMR-WB
			Opus Silk	(VBR)
	Speex WB		WB	
	27.8k			
			Opus Silk WB	
			(FEC)	
			- /	

	Opus Hybrid SWB	
	Opus Hybrid SWB (FEC)	
	Opus Hybrid FB	
	Opus Hybrid FB (FEC)	

VOS devices have been tested with and support the following video conferencing applications:

- GTalk
- · Microsoft Teams
- RingCentral Phones
- Skype for Business
- Webex (for Releases 21.2.1 and later)
- · Zoom (for Releases 21.2.1 and later)

## **Enable RTM**

To enable RTM on a VOS device, you configure an SD-WAN traffic steering forwarding profile, which you include in an SD-WAN traffic steering policy. You select the Evaluate Continuously field on the General tab, to have a real-time application change to a better path if one becomes available. You also enable MOS score monitoring.

For more information, see Configure SD-WAN Traffic Steering and Configure MOS Score Monitoring.

## Supported Software Information

Releases 20.2 and later support all content described in this article, except:

Releases 21.2.1 and later support the Webex and Zoom video conferencing applications.

## Additional Information

Configure Application Performance Monitoring
Configure MOS Score Monitoring
Configure SD-WAN Traffic Steering

https://docs.versa-networks.com/Secure\_SD-WAN/01\_Configuration\_from\_Director/SD-WAN\_Configuration/Advanced\_SD-W... Updated: Wed, 23 Oct 2024 08:11:04 GMT Copyright © 2024, Versa Networks, Inc.

