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SUPPORT-SERVICES-ONE

GENBAND SBC/RSM on VM Platform

GENBAND SBC/RSM VM VERSION (Support-Services-One)

Q2-VM SBC

Support-Services-One in partnership with Ribbon products is able to provide GENBAND SBC solution on VM platform (Currently Supported with VMWare Hypervisor)

Following Versions of SW are supported on VM Platform:

- 8.1.x.x
- 8.3.x.x
- 9.1.x.x
- 9.3.x.x – Latest Builds

The VM model is highly scalable, reliable, flexible and cost effective i.e. there is no need to go for a Bare Metal SBC that costs between 60-70K USD depending on the model. Also, if the customers are having an EoL HW, it can be migrated to VM SBC.

How It Works:

OpenRTP Solution

Signaling-path: INGRESS <--> SBC <--> EGRESS

Media-Stream: INGRESS <--> EGRESS

With OpenRTP, media goes direct between the Endpoints and there is no need to pass it through SBCs (media card)

OpenRTP Solutions WITH PROXY IN MIDDLE

INGRESS ↔ GENBAND SBC ↔ MediaServer (RTP + Transcoding) ↔ GENBAND SBC ↔ EGRESS

With this option, middle proxy will act as a media server and will stay in the call flow.

Here is the list of transcoding functions that can be performed with MediaServer being in the call flow:

	g723	uLaw	aLaw	gsm	g726	g726aal2	adpcm	slin8	slin12	slin16	slin24	slin32	slin44	slin48	slin96	slin192	lpc10	g729	ilbc	g722	testLaw	
g723	-	15000	15000	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
uLaw	15000	-	9150	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
aLaw	15000	9150	-	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
gsm	15000	15000	15000	-	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
g726	15000	15000	15000	15000	-	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
g726aal2	15000	15000	15000	15000	15000	-	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
adpcm	15000	15000	15000	15000	15000	15000	-	9000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	15000	17250	15000
slin8	6000	6000	6000	6000	6000	6000	6000	-	8000	8000	8000	8000	8000	8000	8000	8000	8000	6000	6000	6000	8250	6000
slin12	14500	14500	14500	14500	14500	14500	14500	8500	-	8000	8000	8000	8000	8000	8000	8000	8000	14500	14500	14500	14000	14500
slin16	14500	14500	14500	14500	14500	14500	14500	8500	8500	-	8000	8000	8000	8000	8000	8000	8000	14500	14500	14500	6000	14500
slin24	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	-	8000	8000	8000	8000	8000	8000	14500	14500	14500	14500	14500
slin32	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	8500	-	8000	8000	8000	8000	8000	14500	14500	14500	14500	14500
slin44	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	8500	8500	-	8000	8000	8000	8000	14500	14500	14500	14500	14500
slin48	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	8500	8500	8500	-	8000	8000	8000	14500	14500	14500	14500	14500
slin96	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	8500	8500	8500	8500	-	8000	14500	14500	14500	14500	14500	14500
slin192	14500	14500	14500	14500	14500	14500	14500	8500	8500	8500	8500	8500	8500	8500	8500	-	14500	14500	14500	14500	14500	14500
lpc10	15000	15000	15000	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	17000	-	15000	15000	17250	15000
g729	15000	15000	15000	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	17000	15000	-	15000	17250	15000
ilbc	15000	15000	15000	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	-	17250	15000
g722	15600	15600	15600	15600	15600	15600	15600	9600	17500	9000	17000	17000	17000	17000	17000	17000	17000	15600	15600	15600	-	15600
testLaw	15000	15000	15000	15000	15000	15000	15000	9000	17000	17000	17000	17000	17000	17000	17000	17000	17000	15000	15000	15000	17250	-

If customers require more MediaServers for RTP or Transcoding, we can always add more VMs to work back-to-back with the SBC

VM Specifications:

Since, SBC VM will be handling only Signaling for the call flow, VM can run on following specs.

SBC Cluster VM-Q20: 2 x VM Server for SBC to run as Active/Standby peer

OS: GENBAND customized, provided by Support-Services-One
RAM: 8-16-32 GB depending on small-medium-large deployments
vCPU: 4-8-16 depending on small-medium-large deployments
HDD: 300 GB Depending
Interfaces (Per Server): eth0 (Management Interface)
eth1 (For HA)
eth2 (Signaling)
eth3 (Signaling)

Signaling IPs: You can decide how many signaling IPs you will need as they will be used with REALMs. Please note that Signaling IPs are Public IPs so that your customers can send traffic

Media Server (RTP + Transcoding): 2 x VMs servers so that you can have two media servers to have redundancy

OS: Centos-7.0
RAM: 8-16 GB depending on small-large deployments
vCPU: 4-8-16 depending on small-medium-large deployments
HDD: 150
Interfaces: eth0 (For management), eth1 (For RTP and Transcoding)

RSM Server: 1 x VM Server

OS: Redhat 7.0

RAM: 8 GB

HDD: 200 GB

vCPU: 4

Interfaces: enp1 (One interface for management and connection to SBCs)

If OpenRTP model is selected, then there is no need to add a MediaServer. Also, if the customers decide to add MediaServer later on, we can still support that and can include the media server to pass RTP packets and media topology hiding.

Supported Features on Q20-VM:

Q20-VM supports all the features of SBC as we have on the Bare Metal server model except passing media via HK card/interfaces, making it to work with “Never Route Media” functionality.

For the details regarding the features and operations, please check attached “Feature Description” document.