



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
Туре	FRR	FRR	FRR	FRR	FRR	FRR		
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7c0c85a		
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-01-17		
ANVL-RIPNG-1.1	1 ANVL, setup verification							
MUST	Setup verific DUT sends un	cation tests solicited RIPr	ng response.					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-1.2	ANVL, setup verific	ation	•					
MUST	Setup verific RIPng process		Unicast Reque	st Message at UI	OP Port 521.			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-1.3	ANVL, setup verific	cation						
MUST	Setup verification tests Once the entry has been validated, update the metric by adding the cost of the network on which the message arrived.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-1.4	ANVL, setup verific	ation						
MUST	Setup verific DUT forwards		ccording to ro	outing table entr	ſγ.			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-1.6	ANVL, setup verific	cation						
MUST		oer of RTEs do	o not fit in c s multiple IPv	ne RIPng Unsolic 6 fragments	cited Update			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-RIPNG-2.1	NEGATIVE RFC 2080 s2 p4 Pi RFC 2080 s2.1 p7	rotocol Specification Message Format					
	inclusive, sp	cric of a netw pecifying the 16 (infinity)	current metri	eger between 1 a c for the destir ates that the de	nation;		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-2.2	RFC 2080 s2.1 p5	Message Format					
MUST	RIPng Message Format Each router that uses RIPng has a routing process that sends datagrams on UDP port number 521, the RIPng port. Unsolicited routing update messages have both the source and destination port equal to the RIPng port.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-2.3	RFC 2080 s2.1 p5	Message Format			-		
MUST	RIPng Message Format Each router that uses RIPng has a routing process that receives datagrams on UDP port number 521, the RIPng port.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-2.4	RFC 2080 s2.1 p5	Message Format					
MUST	RIPng Message Those sent in which the red	n response to	a request are	sent to the por	rt from		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	





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ANVL-RIPNG-3.1	RFC 2080 s2.1.1 p	7 Next Hop						
миѕт	RIPng Next Ho The route tag to zero on se	and prefix l	ength in the	next hop RTE mus	st be set			
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		
ANVL-RIPNG-3.2	NEGATIVE RFC 2080 s2.1.1 p	7 Next Hop						
MUST	(Note : Prefi	g in the next ix Length is s		be ignored on re t route tag set				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-3.3	NEGATIVE RFC 2080 s2.1.1 p7 Next Hop							
MUST	RIPng Next Hop The prefix length in the next hop RTE must be ignored on receiption. (Note: Prefix Length is set to non-zero but route tag set to zero so DUT must ignore this non-zero value)							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIPNG-3.4	RFC 2080 s2.1.1 p	8 Next Hop						
SHOULD	RIPng Next Hop Specifying a value of 0:0:0:0:0:0:0 in the prefix field of a next hop RTE indicates that the next hop address should be the originator of the RIPng advertisement.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-RIPNG-3.5	RFC 2080 s2.1.1 p	8 Next Hop						
MUST	An address sp If the receiv	RIPng Next Hop An address specified as a next hop must be a link-local address. If the received next hop address is not a link-local address, it should be treated as 0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-4.1	RFC 2080 s2.2 p8	Addressing Conside	rations					
SHOULD	RIPng Addressing Considerations In general, the system administrator will be provided with a way to specify which routers should create and advertise default route entries.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-5.1	RFC 2080 s2.3 p9	Timers						
MUST	RIPng Timers  Every 30 seconds, the RIPng process is awakened to send an unsolicited Response message.  - The 30-second timer is offset by a small random time (+/- 0 to 15 seconds) each time it is set. The offset is derived from: 0.5 * the update period (i.e. 30).							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-5.2	RFC 2080 s2.3 p9	Timers						
MUST				e the timeout wa have expired.	ıs			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-RIPNG-5.3	RFC 2080 s2.3 p9	Timers					
MUST	- the timeout	expires. eceived RIPng update that w		ons: UT can be a trig metric field for			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-5.5	RFC 2080 s2.3 p10	) Timers					
MUST	RIPng Timers Until the garbage-collection timer expires, the route is included in all updates sent by this router.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-5.6	RFC 2080 s2.3 p10	) Timers					
миѕт	RIPng Timers When the gark from the rout		on timer expir	es, the route is	is deleted		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-6.1	RFC 2080 s2.4.1 p	10 Request Messag	es				
SHOULD	RIPng Request Messages Normally, Requests are sent as multicasts, from the RIPng port, by routers which have just come up and are seeking to fill in their routing tables as quickly as possible.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-RIPNG-6.4	RFC 2080 s2.4.1 p10 Request Messages RFC 2080 s2.5.2 p15 Generating Response Messages							
MUST	the router rewith a global	re may be situ esponds direct Lly valid sour	ly to the req	such a Request uestor"s address nce the requesto	and port			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-6.5	RFC 2080 s2.4.1 p	11 Request Messag	es					
MUST	RIPng Request If there are		o response is	given.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-6.7	RFC 2080 s2.4.1 p	11 Request Messag	es					
MUST	RIPng Request Messages If there is no explicit route to the specified destination, put infinity in the metric field.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-6.8	RFC 2080 s2.4.1 p	11 Request Messag	es					
MUST	RIPng Request Messages If the request is for specific entries, they are looked up in the routing table and the information is returned as is; no Split Horizon processing is done.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-7.1	RFC 2080 s2.4.2 p	11 Response Messa	iges					
MUST	RIPng Response		ed if it is n	ot from the RIPr	ng port.			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-RIPNG-7.2	RFC 2080 s2.4.2 p	11 Response Messa	iges					
MUST		must be ignor we are testing		ot from the RIPr e will be accept				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-7.3		11 Response Messa 15 Generating Resp						
MUST	whether the o	s IPv6 source	om a valid ne	ld be checked to ighbor; the sour				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-7.4	NEGATIVE RFC 2080 s2.4.2 p11 Response Messages RFC 2080 s2.5.2 p15 Generating Response Messages							
	RIPng Response Messages The datagram"s IPv6 source address should be checked to see whether the datagram is from a valid neighbor; the source of the datagram must be a link-local address.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-7.5	NEGATIVE RFC 2080 s2.4.2 p	11 Response Messa	iges					
MUST	one of the ro	orth checking outer"s own ad processes its	ldresses.	r the response i new input, conf red.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		





	Release	Release	Release	Release	Release	Master	
440 # BIBNO 7 0	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-RIPNG-7.6  MUST	RIPng Respons As an addition hop counts so the RIPng pos	onal check, pe et to 255, and	eriodic advert l inbound, mul odic advertise	isements must ha ticast packets s ment) must be ex	ent from		
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-RIPNG-7.8	NEGATIVE RFC 2080 s2.4.2 p	12 Response Messa	iges				
MUST	RIPng Respons As an addition hop counts se	onal check, pe	eriodic advert	isements must ha	ve their		
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-RIPNG-7.9	RFC 2080 s2.4.2 p12 Response Messages						
MUST	RIPng Response Messages Queries and their responses may still cross intermediate nodes and therefore do not require the hop count test to be done.						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-RIPNG-7.10	NEGATIVE RFC 2080 s2.4.2 p12 Response Messages						
SHOULD	RIPng Response Messages The basic validation tests of a RTE are: - is the destination prefix valid (e.g., not a multicast prefix and not a link-local address) A link-local address should never be present in an RTE.						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-RIPNG-7.11	RFC 2080 s2.4.2 p	12 Response Messa	nges				
MUST	RIPng Respons If any check	_	that entry a	nd proceed to th	ne next.		
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-RIPNG-7.12	RFC 2080 s2.4.2 p	12 Response Messa	iges				
MUST	the cost of the result is great	ry has been va the network on eater than inf		te the metric by ssage arrived. finity. That is	If the		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-7.13	RFC 2080 s2.4.2 p	12 Response Messa	iges				
MUST	RIPng Response Messages If there is no such route, add this route to the routing table, unless the metric is infinity (there is no point in adding a route which unusable).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-7.14	NEGATIVE RFC 2080 s2.4.2 p12 Response Messages						
MUST	RIPng Response Messages If there is no such route, add this route to the routing table, unless the metric is infinity (there is no point in adding a route which unusable).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	
ANVL-RIPNG-7.15	RFC 2080 s2.4.2 p	13 Response Messa	iges				
MUST		te to the rout	ing table con ss to trigger				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	





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ANVL-RIPNG-7.16	RFC 2080 s2.4.2 p	13 Response Messa	iges						
MUST	If there is a the address of datagram is the statement of	RIPng Response Messages If there is an existing route, compare the next hop address to the address of the router from which the datagram came. If this datagram is from the same router as the existing route, reinitialize the timeout.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.17	RFC 2080 s2.4.2 p	13 Response Messa	iges						
MUST	If the datagrand the new r	RIPng Response Messages If the datagram is from the same router as the existing route, and the new metric is different than the old one; - Adopt the route from the datagram. That is, put the new metric in.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.18	RFC 2080 s2.4.2 p	13 Response Messa	iges						
MUST	and the new renew metric is - Adopt the metric in.	ram is from the metric is diff s lower than to coute from the	erent than the che old one; de datagram. T	as the existing e old one; or, i o the following hat is, put the	f the actions: new				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.19	RFC 2080 s2.4.2 p	13 Response Messa	iges						
MUST	and the new r	ram is from th	erent than the datagram. T	as the existing e old one; hat is, adjust t					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16
ANVL-RIPNG-7.20	RFC 2080 s2.4.2 p	13 Response Messa	iges			
MUST	and the new renew metric is - Adopt the renew hop address	ram is from the metric is diff s lower than to coute from the (if necessary)	erent than the he old one; datagram. T	as the existing e old one; or, i hat is, adjust t two different r	f the he next	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass
ANVL-RIPNG-7.22	RFC 2080 s2.4.2 p	13 Response Messa	ages			
SHOULD	the timeout for the expiration the expiration that the expiration is the expiration of the expiration	f the new metr for the existi ation point, s				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass
ANVL-RIPNG-7.23	RFC 2080 s2.4.2 p	13 Response Messa	iges			
SHOULD	RIPng Response Messages Therefore, if the new metric is the same as the old one, examine the timeout for the existing route. If it is at least halfway to the expiration point, switch to the new route.  (Note: Here we test updates from two different routers)					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass
ANVL-RIPNG-8.2	RFC 2080 s2.5.1 p	14 Triggered Update	es			
MUST	RIPng Triggered Updates After a triggered update is sent, a timer should be set for a random interval between 1 and 5 seconds. If other changes that would trigger updates occur before the timer expires, a single update is triggered when the timer expires. (Note: In this test we check that the time difference between two successive RIPng triggered updates is within the range of 1 - 5 seconds)					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass





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	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-RIPNG-9.1	RFC 2080 s2.5.2 p	16 Generating Resp	onse Messages					
MUST	The version o	IPng Response described in t be zero" to	his document	is version 1 and	l the bytes			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-9.2	NEGATIVE RFC 2080 s2.5.2 p	16 Generating Resp	onse Messages					
MUST		IPng Response described in t	Messages his document	is version 1.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-9.3	RFC 2080 s2.5.2 p	RFC 2080 s2.5.2 p16 Generating Response Messages						
MUST	Generating RIPng Response Messages Routes to link-local addresses must never be included in an RTE.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-9.4	RFC 2080 s2.5.2 p	16 Generating Resp	onse Messages					
MUST	Generating RIPng Response Messages Routes must be included in the datagram even if their metrics are infinite.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		
ANVL-RIPNG-10.1	RFC 2080 s2.6 p16	Split Horizon						
MUST		lit horizon al	gorithm omits ent to that ne	routes learned ighbor.	from			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass		





	Release	Release	Release	Release	Release	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-RIPNG-10.2	RFC 2080 s2.6 p16 Split Horizon					
MUST	Split Horizon Split Horizon with Poisoned Reverse (more simply, Poison Reverse) does include such routes in updates, but sets their metrics to infinity.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:
	pass	pass	pass	pass	pass	pass