



	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR			
Commit ID	3e71b5d	3d7746c	f731a65	f92f83b	c47b10c	fb13970	511684d	5cf0c43	2d67d5a			
Commit Date	2017-04-02	2017-04-25	2017-05-24	2017-07-01	2017-08-09	2017-08-16	2017-08-24	2017-09-08	2017-09-14			
ANVL-RIPNG-1.1	ANVL, setup verification	•	•		•	•			•			
MUST	Setup verification tests DUT sends unsolicited RIPng 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-1.2	ANVL, setup verification		•		•		•	•				
MUST	Setup verification tests RIPng process responds to Unicast Request Message at UDP 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-1.3	ANVL, setup verification				•	•	•					
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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-1.4	ANVL, setup verification	•	-		-	-		-				
MUST	Setup verification tests DUT forwards the packet according to routing table entry.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-1.6	ANVL, setup verification											
MUST	Setup verification tests When the number of RTEs do not fit in one RIPng Unsolicited Update then split the RTEs across multiple IPv6 fragments											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-RIPNG-2.1	NEGATIVE RFC 2080 s2 p4 Protocol Specification RFC 2080 s2.1 p7 Message Format											
	inclusive, specifying	t a network is an integing the current metric finity), which indica	for the destination;									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 1 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2				
ANVL-RIPNG-2.2	RFC 2080 s2.1 p5 Message F	- Format											
MUST	Each router that use datagrams on UDP por Unsolicited routing	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-2.3	RFC 2080 s2.1 p5 Message F												
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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-2.4	RFC 2080 s2.1 p5 Message F	- Format				•							
MUST	RIPng Message Format Those sent in response to a request are sent to the port from which the request came.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-3.1	RFC 2080 s2.1.1 p7 Next Hop)											
MUST	RIPng Next Hop The route tag and prefix length in the next hop RTE must be set to zero on sending.												
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	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	FreeBSD 10.3: untested	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL				
ANVL-RIPNG-3.2	NEGATIVE RFC 2080 s2.1.1 p7 Next Hop												
MOST	RIPng Next Hop The route tag in the next hop RTE must be ignored on reception. (Note: Prefix Length is set to zero but route tag set to non-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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-3.3	NEGATIVE RFC 2080 s2.1.1 p7 Next Hop	NEGATIVE RFC 2080 s2.1.1 p7 Next Hop											
MIOS I	(Note : Prefix Lengt	n the next hop RTE mus th is set to non-zero 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				

Test Report created at 2017-09-22 23:29:09 UTC Page 2 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
ANVL-RIPNG-3.4	RFC 2080 s2.1.1 p8 Next Ho	p										
SHOULD		of 0:0:0:0:0:0:0:0 in tes that the next hop IPng 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-3.5	RFC 2080 s2.1.1 p8 Next Hop	p				•						
MUST	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											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-4.1	RFC 2080 s2.2 p8 Addressing	g Considerations				•						
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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: 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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-5.2	RFC 2080 s2.3 p9 Timers											
MUST	RIPng Timers If 180 seconds elapse from the last time the timeout was initialized, the route is considered to have expired.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-5.3	RFC 2080 s2.3 p9 Timers											
MUST	- the timeout expire (Note: The received	RIPng Update from DUT that will have the me	T can be a triggered	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	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 3 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-5.6	RFC 2080 s2.3 p10 Timers	•										
MUST	RIPng Timers When the garbage-collection timer expires, the route is deleted from the routing table.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-6.1	RFC 2080 s2.4.1 p10 Reques	t Messages										
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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-RIPNG-6.4	RFC 2080 s2.4.1 p10 Request Messages RFC 2080 s2.5.2 p15 Generating Response Messages											
MUST	RIPng Request Messages However, there may be situations If such a Request is received, the router responds directly to the requestor saddress and port with a globally valid source address since the requestor may not reside on the directly attached network.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-6.5	RFC 2080 s2.4.1 p11 Reques	t Messages										
MUST	RIPng Request Messages If there are no entries, no response is given.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-6.7	RFC 2080 s2.4.1 p11 Reques	t Messages										
MUST	RIPng Request Messag If there is no expli infinity in the met	icit route to the spec	cified destination, p	ut								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 4 of 9





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	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2				
ANVL-RIPNG-6.8	RFC 2080 s2.4.1 p11 Reques	st Messages		•	•	-		•					
MUST	If the request is for routing table and to	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-7.1	RFC 2080 s2.4.2 p11 Respon	nse Messages											
MUST	RIPng Response Mess The Response must b	ages e ignored if it is not	t from the RIPng port										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-7.2	RFC 2080 s2.4.2 p11 Response Messages												
MUST	RIPng Response Messages The Response must be ignored if it is not from the RIPng port. (Note: Here we are testing that response will be accepted if it is from RIPng Port)												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-7.3	RFC 2080 s2.4.2 p11 Response Messages RFC 2080 s2.5.2 p15 Generating Response Messages												
MUST	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-7.4 MUST	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-RIPNG-7.5	NEGATIVE RFC 2080 s2.4.2 p11 Respor	NEGATIVE RFC 2080 s2.4.2 p11 Response Messages											
MUST	one of the router"s If a router process	ecking to see whether	new input, confusion										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				

Test Report created at 2017-09-22 23:29:09 UTC Page 5 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
ANVL-RIPNG-7.6	RFC 2080 s2.4.2 p12 Respon	nse Messages						•				
MUST	RIPng Response Messages As an additional check, periodic advertisements must have their hop counts set to 255, and inbound, multicast packets sent from the RIPng port (i.e. periodic advertisement) must be examined to ensure that the hop count is 255.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.8	NEGATIVE RFC 2080 s2.4.2 p12 Respor	nse Messages										
MUST	RIPng Response Messages As an additional check, periodic advertisements must have their hop counts set to 255.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.9	RFC 2080 s2.4.2 p12 Respon	nse 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	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	FreeBSD 10.3: untested	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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.11	RFC 2080 s2.4.2 p12 Respon	nse Messages						•				
MUST	RIPng Response Messages If any check fails, ignore that entry and proceed to the 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.12	RFC 2080 s2.4.2 p12 Respon	nse Messages										
MUST	the cost of the net	been validated, update work on which the mess han infinity, use infi	sage arrived. If the									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 6 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
ANVL-RIPNG-7.13	RFC 2080 s2.4.2 p12 Respon	nse 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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.14	NEGATIVE RFC 2080 s2.4.2 p12 Respon	nse 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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.15	RFC 2080 s2.4.2 p13 Respon	nse Messages		•		•		•				
MUST	RIPng Response Messages Adding a route to the routing table consists of: - Signal the output process to trigger an 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.16	RFC 2080 s2.4.2 p13 Respon	nse Messages		•	•	•		•				
MUST	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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.17	RFC 2080 s2.4.2 p13 Respon	nse Messages										
MUST	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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.18	RFC 2080 s2.4.2 p13 Respon	nse Messages										
MUST	If the datagram is and the new metric new metric is lower - Adopt the route f metric in.	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; or, if the new metric is lower than the old one; do the following actions: - Adopt the route from the datagram. That is, put the new metric in. (Note: Here we send RIPng 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	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 7 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
ANVL-RIPNG-7.19	RFC 2080 s2.4.2 p13 Respor	nse Messages				•						
MUST	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, adjust the next hop address (if necessary).											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.20	RFC 2080 s2.4.2 p13 Respon	nse Messages			•	•						
MUST	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; or, if the new metric is lower than the old one; - Adopt the route from the datagram. That is, adjust the next hop address (if necessary). (Note: Here we send RIPng 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.22	RFC 2080 s2.4.2 p13 Respor	nse Messages										
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 the same router)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-7.23	RFC 2080 s2.4.2 p13 Respon	nse Messages			•	•						
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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-8.2	RFC 2080 s2.5.1 p14 Trigger	ed Updates										
MUST	After a triggered up random interval between would trigger update update is triggered (Note: In this test	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: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	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: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 8 of 9





	Release 2.0	3.0-dev 2017-04-25	3.0-dev 2017-05-24	3.0-dev 2017-06-30	Release 3.0-rc1	Master 2017-08-16	Master 2017-08-24	Master 2017-09-08	Release 3.0-rc2			
ANVL-RIPNG-9.1	RFC 2080 s2.5.2 p16 Genera	ting Response Messages				•		•				
MUST	Generating RIPng Response Messages The version described in this document is version 1 and the bytes labeled "must be zero" to zero.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-9.2	NEGATIVE RFC 2080 s2.5.2 p16 Genera	ting Response Messages										
MUST	Generating RIPng Response Messages The version described in this document is version 1.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-9.3	RFC 2080 s2.5.2 p16 Genera	ting Response Messages				•						
MUST	Generating RIPng Response Messages Routes to link-local addresses must never be included 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	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-9.4	RFC 2080 s2.5.2 p16 Genera	ting Response Messages										
MUST	Generating RIPng Response Messages Routes must be included in the datagram even if their metrics are infinite.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-10.1	RFC 2080 s2.6 p16 Split Horiz	zon				•						
MUST	Split Horizon The basic split horizon algorithm omits routes learned from one neighbor in updates sent to that neighbor.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-RIPNG-10.2	RFC 2080 s2.6 p16 Split Hori.	zon				•						
MUST		Poisoned Reverse (more										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	FreeBSD 10.3: untested	FreeBSD 10.3: pass	FreeBSD 10.3: pass			

Test Report created at 2017-09-22 23:29:09 UTC Page 9 of 9