



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7a377a1	7acf817	ed02df4	
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-03-12	2018-06-04	2018-06-08	
ANVL-RIP-1.1	RFC 2453 s3.6 p20	RFC 2453 s3.6 p20 Message Format							
MUST	Each router t	nd Packet Form hat uses RIP h UDP port numbe	as a routing p	rocess that se	nds				
	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: pass	FreeBSD 10.3: pass	
ANVL-RIP-2.1	NEGATIVE: RFC 2453 s3.6 p21 RFC 2453 s3.10.2 p	Message Format b30 Generating Respo	onse Messages						
	RIP Packet Formats There may be between 1 and 25 (inclusive) RIP entries. Recall that there is a limit of 25 RTEs to a 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	
	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: pass	FreeBSD 10.3: pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-2.2	NEGATIVE: RFC 2453 s4 p31 Protocol Extensions RFC 2453 s3.6 p20-21 Message Format										
	RIP Packet Fo The RIP Messa										
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1										
	RIP Entry (20)										
	There may be between 1 and 25 (inclusive) RIP entries. (NOTE: Here we are testing that only valid RIP packets may be accepted.)										
	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									
ANVL-RIP-2.3	NEGATIVE: RFC 2453 s3.1 p21	Message Format									
MUST	RIP Packet Formats The commands implemented in version 1 and 2 are request and 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			
	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: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-2.4	NEGATIVE RFC 2453 s3.6 p21 Message Format									
MUST	RIP Packet Formats For RIP-1, only AF_INET (2) is generally supported.									
	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: pass	FreeBSD 10.3: pass		
ANVL-RIP-2.5	NEGATIVE: RFC 2453 p21 Mes	sage Format								
MUST	RIP Packet Formats The metric field contains a value between 1 and 15 (inclusive) which specifies the current metric for the destination; or the value 16, which indicates that the destination is not reachable.									
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-2.8	RFC 2453 s3.6 p20 RFC 2453 s4 p31 P					•					
MUST	RIP Packet Formats The RIP Response Message Format is:										
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1										
	There may be	between 1 and	25 (inclusive)	RIP 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			
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-3.1	RFC 2453 s3.7 p22	Addressing Consider	ations								
MUST	If host route	g Consieration s are not supp ived in respon	orted, they ar	e to be droppe	d when						
	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: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-3.2	NEGATIVE: RFC 2453 s3.7 p22-23 Addressing considerations										
MUST	RIP Addressing Consierations The destinations appearing in request and response messages can be networks, hosts, or a special code used to indicate a default address. Normally hosts only know the subnet masks for directly-connected networks. (NOTE: Here we are testing the DUT does not accept bad values in address fields.)										
	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									
ANVL-RIP-3.3	RFC 2453 s3.7 p22	Addressing Consider	ations		•	•					
MUST	RIP Addressing Consierations RIP-1 routes to a subnet must not be sent outside the network of which the subnet is a part.										
	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									
ANVL-RIP-3.5	RFC 2453 s3.7 p23	Addressing Consider	ations								
SHOULD	RIP Addressing Consierations These routers should create RIP entries for the address 0.0.0.0, just as if it were a network to which they are connected. The decision as to how routers create entries for 0.0.0.0 is left to the implementor. Most commonly, the system administrator will be provided with a way to specify which routers should create entries for 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			
	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: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-4.3	RFC 2453 s3.8 p24	Timers								
SHOULD	RIP Timers Route expiration timer should be 180 seconds and garbage collection timer should be 120 seconds.									
	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								
ANVL-RIP-4.4	RFC 2453 s3.8 p23-24 Timers									
MUST	RIP Timers The garbage-collection timer is reset upon the reception of a new route to an unreachable 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		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass								
ANVL-RIP-5.1	RFC 2453 s5 p34 Compatability									
MUST	Input Processing RIP messages of version 0 are to be discarded.									
	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								
ANVL-RIP-5.2	RFC 2453 s5 p34 C	ompatability								
MUST	Input Process RIP messages (MBZ) field i	of version 1 a	re to be disca	rded if any Mu	st Be 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		
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-5.3	RFC 2453 s5 p34 Compatability										
SHOULD	Input Processing RIP messages of any version greater than 1 should not be discarded simply because an MBZ field contains a value other than 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			
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-6.1	RFC 2453 s3.9.1 p2	FC 2453 s3.9.1 p25 Request Messages									
MUST	routers which routing table situations (e only a single be sent direct RIP port. If	uests are sent have just com s as quickly a .g., router mo router is nee tly to that ro such a Reques he requestor"s	e up and are s s possible. H nitoring) wher ded. In this uter from a UD t is received,	eeking to fill owever, there e the routing case, the Requer the router to the router re	in their may be table of est should han 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			
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-6.5	NEGATIVE: RFC 2453 s3.9.1 p2	25 Request Messages	;								
MUST	RIP Requests If there is exactly one entry in the request, and it has an address family identifier of zero and a metric of infinity (i.e., 16), then this is a request to send the entire 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			
	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: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-6.6	RFC 2453 s3.9.1 p25 Request Messages										
MUST	RIP Requests Validate RIP Response Message in reply to Request Message.										
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-7.1	RFC 2453 s3.9.2 p2	26 Response Messag	es								
MUST	RIP Responses The Response (UDP Port 520	must be ignore	d if it is not	from the RIP	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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass									
ANVL-RIP-7.2	NEGATIVE: RFC 2453 s3.9.2 p26 Response Messages										
MUST	RIP Responses The datagram"s IPv4 source address should be checked to see whether the datagram is from a valid 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			
	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	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-7.3	NEGATIVE: RFC 2453 s3.9.2 p26 Response Messages									
MUST	RIP Responses It is also worth checking to see whether the response is from one of the router"s own addresses. Interfaces on broadcast networks may receive copies of their own broadcasts/multicasts immediately. If a router processes its own output as new input, confusion is likely so such datagrams must be ignored.									
	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								
ANVL-RIP-14.1	RFC 2453 s4.4 p33	Next hop								
MUST	RIP Next Hop An address specified as a next hop must, per force, be directly reachable on the logical subnet over which the advertisement is made.									
	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								
ANVL-RIP-14.2	RFC 2453 s4.4 p33	Next hop								
MUST	RIP Next Hop The purpose of the Next Hop field is to eliminate packets being routed through extra hops in the system. It is particularly useful If the received Next Hop is not directly reachable, it should be treated as 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		
	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	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-15.1	RFC 2453 s4.5 p33	Multicasting		-							
MUST	RIP Multicasting In order to reduce unnecessary load on those hosts which are not listening to RIP-2 messages, an IP multicast address will be used for periodic broadcasts. The IP multicast address is 224.0.0.9. In order to maintain backwards compatibility, the use of the multicast address will be configurable (NOTE: Here we are testing DUT sends multicast RIP-2 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			
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-15.2	RFC 2453 s4.5 p33	RFC 2453 s4.5 p33 Multicasting									
MUST	RIP Multicasting In order to reduce unnecessary load on those hosts which are not listening to RIP-2 messages, an IP multicast address will be used for periodic broadcasts. The IP multicast address is 224.0.0.9. In order to maintain backwards compatibility, the use of the multicast address will be configurable (NOTE: Here we are testing DUT accepts multicast RIP-2 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			
	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-16.1	RFC 2453 s5.1 p34	Compatibility switch									
MUST	RIP Version Compatibility The switch has four settings: RIP-1, in which only RIP-1 messages are sent; RIP-1 compatibility, in which RIP-2 messages are broadcast; RIP-2, in which RIP-2 messages are multicast; and "none", which disables the sending of RIP messages. CASE: Only RIP-1 messages are sent										
	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: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-16.2	RFC 2453 s5.1 p34	Compatibility switch								
MUST	RIP Version Compatibility The switch has four settings: RIP-1, in which only RIP-1 messages are sent; RIP-1 compatibility, in which RIP-2 messages are broadcast; RIP-2, in which RIP-2 messages are multicast; and "none", which disables the sending of RIP messages. CASE: RIP-2 messages are broadcast									
	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: pass	FreeBSD 10.3: pass		
ANVL-RIP-17.1	RFC 2453 s3.10 p2	RFC 2453 s3.10 p29 Output Processing								
MAY	RIP Parameter Setting It may be necessary to specify an actual list of neighboring routers and send a datagram to each one explicitly									
	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: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-RIP-1.2	RFC 2453 s3.6 p20	Message Format								
MUST	RIP Message and Packet Formats Unsolicited routing update messages have both source and destination port equal to the RIP port (UDP port number 520).									
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-1.3	RFC 2453 s3.6 p20 Message Format									
MUST	Update messag	nd Packet Form es sent in res e request came	ponse to a req	uest are sent	to the 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		
	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: pass	FreeBSD 10.3: pass		
ANVL-RIP-7.9	NEGATIVE: RFC 2453 s3.10.2 p RFC 2453 s5 p34 C	p30 Generating Resp ompatibility	onse Messages							
	to zero.	of version 1 a	. Set the byt							
	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: pass	FreeBSD 10.3: pass		
ANVL-RIP-7.10	RFC 2453 s3.4.2 p2	27 Response Messag	jes							
MUST	RIP Responses Once the entry has been validated, update the metric by adding the cost of the network on which the message arrived. If the result is greater than infinity, use infinity. That is, metric = MIN (metric + cost, infinity)									
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-7.12	RFC 2453 s3.9.2 p27 Response Messages RIP Responses 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 is unusable).									
MUST										
	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								
ANVL-RIP-7.13	RFC 2453 s3.9.2 p2	28 Response Messag	es							
MUST	RIP Responses If the new metric is infinity, start the deletion process									
	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								
ANVL-RIP-7.14	RFC 2453 s3.9.2 p2	27 Response Messag	es							
MUST	RIP Responses Any entry that fails these tests is ignored, as it is no better than the current route.									
	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								





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-8.1	RFC 2453 s3.10 p2	8 Output Processing								
MUST	Output Processing This processing may be triggered by input processing, when a Request is received (this Response is unicast to the requestor)									
	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								
ANVL-RIP-8.3	RFC 2453 s3.10 p2	8 Output Processing								
MUST	Output Processing This processing may be triggered by triggered updates (broadcast/multicast when a route changes)									
	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								
ANVL-RIP-8.5	RFC 2453 s3.10.1 p	29 Triggered Updates	5							
SHOULD	Output Processing 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. The timer is then reset to another random value between 1 and 5 seconds.									
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-RIP-8.17	RFC 2453 s3.4.3 p15-16 Split horizon									
MUST	Output Processing The "simple split horizon" scheme omits routes learned from one neighbor in updates sent to that neighbor. Thus implementors may at their option implement simple split horizon rather than split horizon with poisoned reverse The router requirements RFC [11] specifies that all implementation of RIP must use split horizon									
	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: pass	FreeBSD 10.3: pass		
ANVL-RIP-9.1	RFC 2453 s3.6 p20	Message format								
MUST	RIP Version 2 The RIP Heade	Packet Format r format is:	s							
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 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		
	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: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-9.2	RFC 2453 s4 p31 P	RFC 2453 s4 p31 Protocol Extensions									
MUST		Packet Format r the 20-octet	s route entry (RTE) for							
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1										
		I	P Address (4)								
		S	ubnet Mask (4)								
		N	ext Hop (4)								
		M	etric (4)		<u> </u>						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	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: pass	FreeBSD 10.3: pass			
ANVL-RIP-10.1	RFC 2453 s4.1 p31	Authentication									
MUST	RIP Version 2 Authentication If the Address Family Identifier of the first (and only the first) entry in the message is 0xFFFF, then the remainder of the entry contains the authentication.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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: 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	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-RIP-10.2	NEGATIVE: RFC 2453 s4.1 p31 Authentication										
MUST	RIP Version 2 Authentication If authentication is not in use, then no entries in the message should have an Address Family Identifier of 0xFFFF.										
	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									
ANVL-RIP-10.3	NEGATIVE: RFC 2453 s4.1 p32	Authentication									
MUST	RIP Version 2 Authentication Currently, the only Authentication Type is simple password and it is type 2. The remaining 16 octets contain the plain text password. If the password is under 16 octets, it must be left-justified and padded to the right with nulls (0x00).										
	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									
ANVL-RIP-16.3	RFC 2453 s5.1 p34	Compatibility switch			•						
MUST	RIP Version Compatibility The switch has four settings: RIP-1, in which only RIP-1 messages are sent; RIP-1 compatibility, in which RIP-2 messages are broadcast; RIP-2, in which RIP-2 messages are multicast; and "none", which disables the sending of RIP messages. CASE: RIP-2 messages are multicast										
	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									





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
ANVL-RIP-16.4	RFC 2453 s5.1 p34	Compatibility switch							
MUST	sent; RIP-1 c RIP-2, in whi disables the		in which RIP-2 ges are multic messages.	messages are					
	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: pass	FreeBSD 10.3: pass	
ANVL-RIP-16.5	RFC 2453 s5.1 p34	Compatibility Switch							
SHOULD	RIP Version Compatibility For completeness, routers should also implement a receive control switch which would determine whether to accept RIP-1 only.								
	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: pass	FreeBSD 10.3: pass	
ANVL-RIP-16.6	RFC 2453 s5.1 p34	Compatibility Switch							
SHOULD	RIP Version Compatibility For completeness, routers should also implement a receive control switch which would determine whether to accept RIP-2 only								
	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: pass	FreeBSD 10.3: pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
ANVL-RIP-16.7	RFC 2453 s5.1 p34 Compatibility Switch								
SHOULD	RIP Version Compatibility For completeness, routers should also implement a receive control switch which would determine whether to accept both								
	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: pass	FreeBSD 10.3: pass	
ANVL-RIP-16.8	RFC 2453 s5.1 p34	Compatibility Switch							
SHOULD		ompatibility ess, routers s would determin			ve control				
	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: pass	FreeBSD 10.3: pass	