

	Master 2017-01-16 Ubuntu 16.04	Master 2017-01-16 FreeBSD 10.3	Stable 2.0-rc1 FreeBSD 10.3	Stable 2.0-rc1 Ubuntu 16.04	Stable 2.0-rc2 Ubuntu 16.04	Stable 2.0-rc2 FreeBSD 10.3	Master 2017-02-24 Ubuntu 16.04	Master 2017-02-24 FreeBSD 10.3	Master 2017-03-07 FreeBSD 10.3	Master 2017-03-07 Ubuntu 16.04	Release 2.0 Ubuntu 16.04	Release 2.0 FreeBSD 10.3		
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR		
Commit ID	ab0c954	ab0c954	16e3267	16e3267	5753eb9	5753eb9	821cf0d	821cf0d	1a664f5	1a664f5	3e71b5d	3e71b5d		
Commit Date	2017-01-16	2017-01-16	2017-01-19	2017-01-19	2017-02-23	2017-02-23	2017-02-24	2017-02-24	2017-03-07	2017-03-07	2017-04-02	2017-04-02		
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
RIP-1.1	RFC 2453 s3.6	p20 Message Fo	ormat	-						-	-			
MUST	Each route	e and Packe r that uses on UDP port	RIP has a		rocess tha	at sends								
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	NEGATIVE: RFC 2453 s3.6 p21 Message Format RFC 2453 s3.10.2 p30 Generating Response Messages													
		Formats be between t there is												



	Master 2017-01-16	Master 2017-01-16	Stable 2.0-rc1	Stable 2.0-rc1 	Stable 2.0-rc2	Stable 2.0-rc2	Master 2017-02-24	Master 2017-02-24	Master 2017-03-07	Master 2017-03-07	Release 2.0	Release 2.0		
	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	 Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	 Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3		
ANVL- RIP-2.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST		31 Protocol Exter p20-21 Message												
	RIP Packet The RIP Me	Formats ssage Forma	t is:											
		1 5 6 7 8 9 0	1 2 3 4 5		1 2 3 4 5	6 7 8 9 0								
	+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-													
ANVL- RIP-2.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	NEGATIVE: RFC 2453 s3.1	p21 Message Fo	rmat											
	RIP Packet The comman	Formats ds implemen	ted in ver	sion 1 and	2 are req	quest and 1	response							
ANVL- RIP-2.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	NEGATIVE RFC 2453 s3.6	p21 Message Fo	rmat											
	RIP Packet For RIP-1,	Formats only AF_IN	ET (2) is	generally	supported.									



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3		
ANVL- RIP-2.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	NEGATIVE: RFC 2453 p21	Message Format												
	which spec	Formats field containing the cities the cities the cities the cities the cities the cities and cities the cities and cities are cities and cities and cities are cities and cities and cities are cities are cities and cities are cities are cities are cities and cities are citi	urrent met	ric for th	e destinat	cion; or	•							
ANVL- RIP-2.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	RFC 2453 s3.6 p20 Message Format RFC 2453 s4 p31 Protocol Extensions RIP Packet Formats													
	RFC 2453 s4 p31 Protocol Extensions													
	+	·	RIP E	ntry (20)	+		+ ~ +							
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
RIP-3.1		p22 Addressing		'	puos	page	pass	Pace	Page	Page	pass	- pass		
MUST	RIP Addres If host ro	sing Consie utes are no eceived in	rations t supporte	d, they ar	e to be di	copped wher	n							



	Master 2017-01-16 Ubuntu 16.04	Master 2017-01-16 FreeBSD 10.3	Stable 2.0-rc1 FreeBSD 10.3	Stable 2.0-rc1 Ubuntu 16.04	Stable 2.0-rc2 Ubuntu 16.04	Stable 2.0-rc2 FreeBSD 10.3	Master 2017-02-24 Ubuntu 16.04	Master 2017-02-24 FreeBSD 10.3	Master 2017-03-07 FreeBSD 10.3	Master 2017-03-07 Ubuntu 16.04	Release 2.0 Ubuntu 16.04	Release 2.0 FreeBSD 10.3	
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
RIP-3.2	NEGATIVE: RFC 2453 s3.7	p22-23 Addressi	ng consideratio	ns									
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.)													
ANVL- RIP-3.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
	RFC 2453 s3.7	p22 Addressing	Considerations				-						
MUST RFC 2453 s3.7 p22 Addressing Considerations RIP Addressing Consierations RIP-1 routes to a subnet must not be sent outside the network of which the subnet is a part.													
ANVL- RIP-3.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
	RFC 2453 s3.7	p23 Addressing	Considerations										
SHOULD	RFC 2453 s3.7 p23 Addressing Considerations 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												
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
RIP-4.3	RFC 2453 s3.8	p24 Timers											
SHOULD		ration time: ld be 120 se		e 180 seco	onds and ga	arbage coll	lection						



	Master 2017-01-16 Ubuntu	Master 2017-01-16 FreeBSD	Stable 2.0-rc1 FreeBSD	Stable 2.0-rc1 Ubuntu	Stable 2.0-rc2 Ubuntu	Stable 2.0-rc2 FreeBSD	Master 2017-02-24 Ubuntu	Master 2017-02-24 FreeBSD	Master 2017-03-07 FreeBSD	Master 2017-03-07 Ubuntu	Release 2.0 Ubuntu	Release 2.0 FreeBSD	
	16.04	10.3	10.3	16.04	16.04	10.3	16.04	10.3	10.3	16.04	16.04	10.3	
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
RIP-4.4	RFC 2453 s3.8	p23-24 Timers											
MUST		e-collection e to an unr			n the rece	eption of							
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
RIP-5.1	RFC 2453 s5 p	34 Compatability				•							
MUST	Input Proc RIP messag	essing es of versi	on 0 are t	o be disca	rded.								
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
RIP-5.2	RFC 2453 s5 p	34 Compatability											
MUST		essing es of versi d is non-ze		o be disca	rded if ar	ny Must Be	Zero						
ANVL- RIP-5.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
	RFC 2453 s5 p	34 Compatability											
SHOULD		essing es of any v ause an MBZ											
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	
	RFC 2453 s3.9	.1 p25 Request N	Messages										
MUSI	RIP-6.1 RFC 2453 s3.9.1 p25 Request Messages RIP Requests Normally, Requests are sent as broadcasts, from the RIP port, by routers which have just come up and are seeking to fill in their routing tables as quickly as possible. However, there may be situations (e.g., router monitoring) where the routing table of only a single router is needed. In this case, the Request should be sent directly to that router from a UDP port other than the RIP port. If such a Request is received, the router responds directly to the requestor"s address and port.												



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-6.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	NEGATIVE: RFC 2453 s3.9	.1 p25 Request M	lessages									
	family ide	ts s exactly on ntifier of : request to :	zero and a	metric of	infinity	(i.e., 16)						
ANVL- RIP-6.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s3.9	.1 p25 Request M	lessages									
MUST	RIP Reques Validate R	ts IP Response	Message i	n reply to	Request N	Message.						
ANVL- RIP-7.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s3.9	.2 p26 Response	Messages									
IVIUST	RIP Respon The Respon (UDP Port	se must be :	ignored if	it is not	from the	RIP port.						
ANVL- RIP-7.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	NEGATIVE: RFC 2453 s3.9	.2 p26 Response	Messages									
	_	ses am"s IPv4 so am is from a			be checke	ed to see v	whether					



	Master 2017-01-16	Master 2017-01-16	Stable 2.0-rc1	Stable 2.0-rc1	Stable 2.0-rc2	Stable 2.0-rc2	Master 2017-02-24	Master 2017-02-24	Master 2017-03-07	Master 2017-03-07	Release 2.0	Release 2.0			
	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3			
ANVL- RIP-7.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass			
MUST	NEGATIVE: RFC 2453 s3.9	.2 p26 Response	Messages												
	the router receive co	ses worth check "s own addropies of the rocesses it tagrams mus	esses. In ir own bro s own outp	terfaces o adcasts/mu ut as new	n broadcas lticasts i	st networks Immediately	s may y. If								
ANVL- RIP-14.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass			
MUST	RFC 2453 s4.4	FC 2453 s4.4 p33 Next hop													
MUST	An address	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.													
ANVL- RIP-14.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass			
	RFC 2453 s4.4	p33 Next hop	-				-			-					
MUST	routed thr	e of the Ne: ough extra l eived Next l	hops in th	e system.	It is par	rticularly	useful	ı							
ANVL- RIP-15.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass			
	RFC 2453 s4.5	p33 Multicasting													
MUST	listening periodic b In order t multicast	asting o reduce un to RIP-2 me roadcasts. o maintain i address wil e we are te	ssages, an The IP mu backwards l be confi	IP multic lticast ad compatibil gurable	ast addres dress is 2 ity, the u	ss will be 224.0.0.9. use of the									



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-15.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s4.5	p33 Multicasting										
MUST	listening periodic b In order t multicast	asting o reduce un to RIP-2 me roadcasts. o maintain address wil e we are te	ssages, an The IP mu backwards l be confi	IP multic lticast ac compatibil gurable	east addresderesderesderes is 2 sity, the unity,	ss will be 224.0.0.9. use of the	used for					
ANVL- RIP-16.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s5.1	p34 Compatibility	y switch				-					
	The switch sent; RIP-RIP-2, in disables t	n Compatibi has four s 1 compatibi which RIP-2 he sending RIP-1 mess	ettings: R lity, in w messages of RIP mes	hich RIP-2 are multic sages.	messages	are broad	cast;					
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RIP-16.2	RFC 2453 s5.1	p34 Compatibility	y switch									
MUST	The switch sent; RIP-RIP-2, in disables t	n Compatibi has four s 1 compatibi which RIP-2 he sending 2 messages	ettings: R lity, in w messages of RIP mes	hich RIP-2 are multic sages.	messages	are broad	cast;					
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RIP-17.1	RFC 2453 s3.1	0 p29 Output Pro	cessing									
MAY	It may be	ter Setting necessary to d send a da	o specify			eighboring						



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3		
ANVL- RIP-1.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	RFC 2453 s3.6	p20 Message Fo	ormat											
MOST	Unsolicite	e and Packe d routing u to the RIP	pdate mess			ce and dest	tination							
ANVL- RIP-1.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
	RFC 2453 s3.6 p20 Message Format													
MUST	RIP Message and Packet Formats Update messages sent in response to a request are sent to the port from which the request came.													
ANVL- RIP-7.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
MUST	NEGATIVE: RFC 2453 s3.10.2 p30 Generating Response Messages RFC 2453 s5 p34 Compatibility													
	to zero. RIP messag	ses mmand to Re es of versi d is non-ze	on 1 are t	_										
ANVL-	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass		
	RFC 2453 s3.4	1.2 p27 Response	e Messages											
MUSI	RFC 2453 s3.4.2 p27 Response Messages 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)													



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-7.12	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s3.9	.2 p27 Response	Messages									
MUST		s no such r metric is										
ANVL- RIP-7.13	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s3.9	.2 p28 Response	Messages									
MUST	RIP Respon If the new	ses metric is	infinity,	start the	deletion p	process						
ANVL- RIP-7.14	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s3.9	.2 p27 Response	Messages									
MOST	RIP Respon Any entry the curren	that fails	these test	s is ignor	ed, as it	is no bett	ter than					
ANVL- RIP-8.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s3.1	0 p28 Output Pro	cessing									
MUST		cessing ssing may b d (this Res					Request					
ANVL- RIP-8.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s3.1	0 p28 Output Pro	cessing									
IVIUST		cessing ssing may b /multicast				ces						



ANVL-	Master 2017-01-16 Ubuntu 16.04	Master 2017-01-16 FreeBSD 10.3	Stable 2.0-rc1 FreeBSD 10.3	Stable 2.0-rc1 Ubuntu 16.04	Stable 2.0-rc2 Ubuntu 16.04	Stable 2.0-rc2 FreeBSD 10.3	Master 2017-02-24 Ubuntu 16.04	Master 2017-02-24 FreeBSD 10.3	Master 2017-03-07 FreeBSD 10.3	Master 2017-03-07 Ubuntu 16.04	Release 2.0 Ubuntu 16.04	Release 2.0 FreeBSD 10.3	
SHOULD	RFC 2453 s3.1 Output Pro After a tr interval b updates oc when the t	0.1 p29 Triggered cessing iggered upd etween 1 and cur before imer expire	d Updates ate is sen d 5 second the timer s. The ti	t, a timer s. If oth expires, a	should beer changes	e set for a s that woul	a random ld trigger riggered	pass	pass	pass	pass	pass	
ANVL- RIP-8.17 MUST	.17 RFC 2453 s3.4.3 p15-16 Split horizon												
ANVL- RIP-9.1 MUST	RIP must use split horizon pass pass pass pass pass pass pass pas												



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	 Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	 Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-9.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s4 p	31 Protocol Exter	nsions									
MOST	The format RIP-2 is: 0	n 2 Packet 1 for the 20	1 2 3 4 5 -+-+-+ tifier (2) IP Ado	2 6 7 8 9 0 -+-+-+-+ -+ dress (4) t Mask (4)	1 2 3 4 5	5 6 7 8 9 ((2)	+ + + 					
	+			. ,			+					
ANVL- RIP-10.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s4.1	p31 Authentication	on									
MUST	If the Add entry in t	n 2 Authent ress Family he message he authenti	Identifie: is 0xFFFF,									
ANVL- RIP-10.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	NEGATIVE: RFC 2453 s4.1	p31 Authentication	on									
	If authent	n 2 Authent ication is a dress Famil	not in use			the messa	age should					



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-10.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	NEGATIVE: RFC 2453 s4.1 p32 Authentication											
	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).											
ANVL- RIP-16.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 2453 s5.1 p34 Compatibility switch											
	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											
ANVL- RIP-16.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	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: No RIP messages are sent											
ANVL- RIP-16.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	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.											



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	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3	Ubuntu 16.04	FreeBSD 10.3	FreeBSD 10.3	Ubuntu 16.04	Ubuntu 16.04	FreeBSD 10.3
ANVL- RIP-16.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	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											
ANVL- RIP-16.7 SHOULD	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 2453 s5.1 p34 Compatibility Switch											
	RIP Version Compatibility For completeness, routers should also implement a receive control switch which would determine whether to accept both											
ANVL-	pass	pass	pass	pass	unpredict	pass	pass	pass	pass	pass	pass	pass
RIP-16.8	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 none.											