



	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	
Туре	FRR	FRR	FRR	FRR	FRR				
Commit ID	Released	Released							
Commit Date	2022-11-03	2023-01-11							
IGMPV3-1.1	RFC 3376, IG	MP Version 3							
MUST	Quick test to verify that DUT acts as an IGMPv3 Router								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-4.1	RFC 3376, IG	iMP Version 3,	s4 p7 Messag	e Formats					
MUST	IP protocol (Tests that	IGMP messages are encapsulated in IPv4 datagrams, with an IP protocol number of 2 (Tests that IGMPv3 Membership Query Message conforms to above statement)							
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-4.4	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4 p7 Message	Formats			•	
MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4 p7 Message Formats IGMP messages are encapsulated in IPv4 datagrams, with an IP protocol number of 2 (Tests that IGMPv3 Membership Report Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-4.5	RFC 3376, IG	MP Version 3,	s4 p7 Messag	e Formats					
MUST	with an IP	message descr Fime-to-Live IGMPv3 Member ment)	of 1						
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-4.8	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4 p7 Message	Formats					
SHOULD	Every IGMP message described in this document is sent with an IP Time-to-Live of 1 (Tests that IGMPv3 Membership Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-4.9	RFC 3376, IG	MP Version 3,	s4 p7 Messag	e Formats						
MUST	IP Precedent 0xc0) (Tests that above stater	· ·	etwork Contro	ol (e.g., Tyr	oe of Service					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-4.13	RFC 3376, IG	MP Version 3,	s4 p7 Messag	e Formats						
MUST	Router Alert	message descr t option [RF0 IGMPv3 Membe ment)	C-2113] in it	s IP header						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-4.16	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4 p7 Message	Formats					
SHOULD	Router Alert	message descr t option [RF(IGMPv3 Membe ment)	C-2113] in it	s IP header						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release	Release	Release	Release	Release	Release	Release	Release		
	8.4	8.4.2	X.X.X	x.x.x	X.X.X	x.x.x	X.X.X	x.x.x		
IGMPV3-4.17	RFC 3376, IG	MP Version 3,	s4 p8 Messag	e Formats						
MUST	An implementation of IGMPv3 MUST also support the following message type, for interoperation with previous versions of IGMP: 0x12 Version 1 Membership Report [RFC-1112]									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-4.18	RFC 3376, IG	MP Version 3,	s4 p8 Messag	e Formats						
MUST	_									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-4.19	RFC 3376, IG	MP Version 3,	s4 p8 Messag	e Formats						
MUST	_	e, for interd		so support that the support th						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.4	RFC 3376, IG	MP Version 3,	s4.1.2 p10 Ch	ecksum						
MUST				mplement of t ssage (the er						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-5.6	RFC 3376, IG	MP Version 3,	s4.1.3 p10 Gr	oup Address						
миѕт	The Group Address field is set to zero when sending a General Query									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.7	RFC 3376, IGMP Version 3, s4.1.3 p10 Group Address									
миѕт	1	ddress field ed when send								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.8	RFC 3376, IG	MP Version 3,	s4.1.3 p10 Gr	oup Address						
MUST		ddress field ed when send								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.9	RFC 3376, IG	MP Version 3,	s4.1.4 p10 Re	sv (Reserved)						
MUST	The Resv fie	eld is set to	zero on tra	ansmission						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								



FRROUTING RFC Compliance Test Report IGMPV3 Results



	Release	Release	Release	Release	Release	Release	Release	Release
	8.4	8.4.2	X.X.X	X.X.X	x.x.x	x.x.x	X.X.X	x.x.x
IGMPV3-5.11	RFC 3376, IG s6.6.1. p33 Ti		s4.1.5 p10 S F	Flag (Suppress	Router-Side F	Processing) RF	C 3376, IGMP	Version 3,
MUST	multicast ro timer update While receiv S-Flag is no	outers that t es they perfo ved Q(G) Grou	they are to a orm upon head up Timer is I	es to any rec suppress the ring a Query lowered to LM	normal			
	Free BSD 10.3 untested	Free BSD 10.3 untested						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass						
	Free BSD 12.0 untested	Free BSD 12.0 untested						
IGMPV3-5.12		RFC 3376, IGM ersion 3, s6.6.			ag (Suppress F	Router-Side Pro	ocessing) NEG	ATIVE: RFC
	multicast ro timer update While receiv S-Flag is no	outers that t es they perfo wed Q(G) Grou	they are to a prm upon head up Timer is I	es to any rec suppress the ring a Query lowered to LN	normal			
	Free BSD 10.3 untested	Free BSD 10.3 untested						
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL						
	Free BSD 12.0 untested	Free BSD 12.0 untested						
IGMPV3-5.13	RFC 3376, IG	MP Version 3,	s4.1.5 p10 S F	Flag (Suppress	Router-Side F	Processing)		
MUST		Flag is set t e querier ele		oes not, howe	ever,			
	Free BSD 10.3 untested	Free BSD 10.3 untested						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass						
	Free BSD 12.0 untested	Free BSD 12.0 untested						
IGMPV3-5.14	RFC 3376, IG	MP Version 3,	s4.1.7 p10 Q0	QIC (Querier's	Query Interval	Code)		
MUST	[Query Inter	rval] used by Querier's Que	the queries	ield specifier. The actual (QQI), is re	al interval,			
	Free BSD 10.3 untested	Free BSD 10.3 untested						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass						
	Free BSD 12.0 untested	Free BSD 12.0 untested						



FRROUTING RFC Compliance Test Report IGMPV3 Results



	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-5.15	RFC 3376, IG	MP Version 3,	s4.1.8 p11 Nu	mber of Sourc	es (N)			•		
MUST	The Number of Sources (N) field specifies how many source addresses are present in the Query. This number is zero in a General Query									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.16	RFC 3376, IG	MP Version 3,	s4.1.8 p11 Nu	ımber of Sourc	es (N)					
MUST		of Sources (Ne present in cific Query	-		-					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.17	RFC 3376, IG	MP Version 3,	s4.1.8 p11 Nu	ımber of Sourc	es (N)					
MUST	The Number of Sources (N) field specifies how many source addresses are present in the Query. This number is non-zero in a Group-and-Source-Specific Query									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.18	RFC 3376, IG	MP Version 3,	s4.1.9 p11 So	urce Address [ï]					
MUST	unicast add: of Sources	IGMPv3 Gener	e n is the va	alue in the D	Number					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	
IGMPV3-5.19	RFC 3376, IG	MP Version 3,	s4.1.9 p11 So	urce Address [[i]	•	•	•	
MUST	unicast add of Sources (Tests that	Address [i] fresses, where (N) field IGMPv3 Group e statement) Free BSD 10.3 untested	e n is the va	alue in the N	Number				
	Ubuntu 18.04: pass Free BSD 12.0 untested	Ubuntu 18.04: pass Free BSD 12.0 untested							
IGMPV3-5.20	RFC 3376, IG	MP Version 3,	s4.1.9 p11 So	urce Address [i]				
MUST	RFC 3376, IGMP Version 3, s4.1.9 p11 Source Address [i] The Source Address [i] fields are a vector of n IP unicast addresses, where n is the value in the Number of Sources (N) field (Tests that IGMPv3 Group-and-Source-Specific Query Message conforms to the above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-5.21	RFC 3376, IG	MP Version 3,	s4.1.10 p11 A	dditional Data					
MUST	When sending a Query, an IGMPv3 implementation MUST NOT include additional octets beyond the fields described here (Tests that IGMPv3 General Query Message conforms to the above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-5.22	RFC 3376, IG	MP Version 3,	s4.1.10 p11 A	dditional Data					
MUST	include add: (Tests that the above st	,	s beyond the	e fields desc	cribed here				
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-5.23	RFC 3376, IG	MP Version 3,	s4.1.10 p11 A	dditional Data							
MUST	When sending a Query, an IGMPv3 implementation MUST NOT include additional octets beyond the fields described here (Tests that IGMPv3 Group-and-Source-Specific Query Message conforms to the above statement)										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-5.26	RFC 3376, IGMP Version 3, s4.1.10 p12 Query Variants										
MUST	the multicas	_	interest,	Address fie and the Numbe							
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-5.27	RFC 3376, IG	MP Version 3,	s4.1.10 p12 C	uery Variants							
MUST	In a Group-and-Source-Specific Query, Source Address [i] fields contain the source address(es) of interest										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-5.28	RFC 3376, IG	MP Version 3,	s4.1.12 p12 IF	Destination A	ddresses for C	Queries					
MUST				with an IP o							
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-5.29	RFC 3376, IG	GMP Version 3,	s4.1.12 p12 IF	Destination A	ddresses for C	Queries				
MUST	Group-Specific Queries are sent with an IP destination address equal to the multicast address of interest									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-5.30	RFC 3376, IG	MP Version 3,	s4.1.12 p12 IF	Destination A	ddresses for C)ueries				
MUST	_	ource Specifi address equa								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-6.2	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.1 p14 Rese	erved					
MUST	In Version 3 Membership Report Message, the Reserved fields are ignored on reception									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-6.4	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.2 p14 Che	cksum					
MUST		ing Version 3 ST be verifie	_							
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-6.10	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.10 p15 Aux	kiliary Data						
MUST	Implementations of IGMPv3 MUST ignore any auxiliary data present in any received Group Record in a Version 3 Membership Report										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-6.12	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.11 p15 Additional Data										
MUST	Report indic present, beg implementat: to verify the	ne received 1	nere are add: Group Record Clude those	itional octe rd, IGMPv3 octets in the		1					
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-6.13	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.11 p15 Additional Data										
MUST	If the Packet Length field in the IP header additional octets of data present, beyond the last Group Record, the received IGMP Checksum but MUST otherwise ignore those additional octets										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-6.24	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.13 p17 IP	Source Addres	ses for Reports	S				
MUST	Routers MUS	T accept a re	eport with a	source addre	ess of						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-6.26	RFC 3376, IG	MP Version 3,	s4.2.14 p18 IF	Destination A	ddresses for R	eports	•			
MUST		eports are se to which all				:				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-6.29	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports									
MUST	or version : contains *an assigned to	, a system MI 2 Report whos ny* of the ac the interfac IGMPv1 compat	se IP Destina ddresses (un: ce on which t	ation Address icast or mult the Report an	s field cicast) crives		I			
	untested	untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-6.30	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.14 p18 IP [Destination Add	dresses for Re	ports			
MUST	In addition, a system MUST accept and process any version 1 or version 2 Report whose IP Destination Address field contains *any* of the addresses (unicast or multicast) assigned to the interface on which the Report arrives (Tests for IGMPv1 compatibility mode and unicast address)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-6.31	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.14 p18 IP [Destination Add	dresses for Re	ports			
MUST	or version : contains *an assigned to	, a system MT 2 Report whos ny* of the ac the interfac IGMPv2 compat	se IP Destina ddresses (un: ce on which t	ation Address icast or mult the Report ar	s field cicast) crives					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	
IGMPV3-6.32	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	4.2.14 p18 IP I	Destination Add	dresses for Re	ports		
MUST	In addition, a system MUST accept and process any version 1 or version 2 Report whose IP Destination Address field contains *any* of the addresses (unicast or multicast) assigned to the interface on which the Report arrives (Tests for IGMPv2 compatibility mode and unicast address)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-7.2	RFC 3376, IG	MP Version 3,	s4.2.15 p18 N	otation for Gro	up Records				
MUST	It is sent be that the interpretation of the specified materials.	- Type MOI by a system i terface has a ulticast addr	in response t a filter mode	to a Query. I	It indicates				
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-7.4	RFC 3376, IG	MP Version 3,	s4.2.15 p18 N	otation for Gro	up Records				
MUST	It is sent be IPMulticastbe that the interest of the second control of the second contro	- Type CHA by a system v Listen causes terface has c ulticast addr	whenever a loss a change of changed to EX	ocal invocat: f filter mode	ion of e. It indicat	ces			
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IGMPV3-7.6	RFC 3376, IG	MP Version 3,	s4.2.15 p18 N	otation for Gro	up Records				
MUST	BLOCK (x) - Type BLOCK_OLD_SOURCES, source addresses x It is sent by a system whenever a local invocation of IPMulticastListen causes a change of source list. It indicates that the Source Address [i] fields in this Group Record contain a list of the sources the system no longer wishes to hear from								
	Free BSD 10.3 untested	Free BSD 10.3 untested	-						
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





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	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-8.1	RFC 3376, IG	MP Version 3,	s5 p19 Descri	ption of the Pro	otocol for Grou	p Members					
MUST	Note that a multicast router that is also a group member performs both parts of IGMPv3, receiving and responding to its own IGMP message transmissions as well as those of its neighbors										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.1	RFC 3376, IG	MP Version 3,	s6 p25 Descri	ption of the Pro	otocol for Multi	cast Routers					
MUST	the router M	erface over w MUST enable m from all sou	reception of		-						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.2	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries RFC 3376, IGMP Version 3, s8.2 p40 Query Interval										
MUST	Multicast routers send General Queries periodically to request group membership information from an attached network The Query Interval is the interval between General Queries sent by the Querier										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.3	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries										
MUST	from a partirouter must group (or so	e membership icular source query for ot ource) and pr group deletion	e is no longe ther members runing its th	er desired, a before o	a multicast	2					
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





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	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-9.4	RFC 3376, IG	MP Version 3,	s6.1 p25 Cond	ditions for IGMI	P Queries						
MUST	When a group membership is terminated at a system or traffic from a particular source is no longer desired, a multicast router must query for other members before deleting the group (or source) and pruning its traffic (Tests for source deletion by IGMPv3 router)										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.5	RFC 3376, IG	MP Version 3,	s6.1 p25 Cond	ditions for IGMI	P Queries						
MUST		fic Queries a									
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.8	RFC 3376, IG	MP Version 3,	s6.2.1 p27 De	finition of Rout	er Filter-Mode						
MUST	As a rule, once a group record with a filter-mode of EXCLUDE is received, the router filter-mode for that group will be EXCLUDE										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.10	RFC 3376, IG	iMP Version 3,	s6.4.1 p30 Re	ception of Curi	rent-State Reco	ords Filter-Mod	le				
MUST	Records IS_1	er in state I EX (B), it up nd source tir	odates the Ro	outer State t	O EXCLUDE						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release	Release	Release	Release	Release	Release	Release	Release			
	8.4	8.4.2	X.X.X	X.X.X	x.x.x	X.X.X	X.X.X	X.X.X			
IGMPV3-9.11	RFC 3376, IG	MP Version 3,	s6.4.2 p31 Re	ception of Filte	r- Mode-Chan	ge and Source	-List-Change F	Records			
MUST	When a router in state INCLUDE (A), receiving BLOCK (B), it updates the Router State to INCLUDE (A) and sends Q(G,A*B) [Last Member Query Count] times, in order to maintain protocol robustness										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.12	RFC 3376, IG	iMP Version 3,	s6.4.2 p31 Re	ception of Filte	r- Mode-Chan	ge and Source	-List-Change F	Records			
MUST	it updates (Q(G,A*B) at	er in state I the Router St [Last Member maintain pro	tate to INC	LUDE (A) and val] interval	sends						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.13	RFC 3376, IG	MP Version 3,	s6.6.2 p34 Qu	erier Election							
MUST	When a router receives a query with a lower IP address, it sets the Other-Querier-Present timer to Other Querier Present Interval and ceases to send queries on the network if it was the previously elected querier										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.14	RFC 3376, IG	MP Version 3,	s6.6.2 p34 Qւ	erier Election							
MUST	After its O	er receives a ther-Querier ng General Qu	Present time								
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-10.1	RFC 3376, IG	MP Version 3,	s7.1 p35 Quei	ry Version Disti	nctions					
MUST	The IGMP version of a Membership Query message is determined as follows: IGMPvl Query: length = 8 octets AND Max Resp Code field is zero									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-10.3	RFC 3376, IG	MP Version 3,	s7.1 p35 Que	y Version Disti	nctions	•	•	•		
миѕт	determined a	rsion of a Me as follows: y: length >		-	.s					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-10.17	RFC 3376, IG	MP Version 3,	s7.3.1 p37 ln	the Presence c	f Older Versio	n Queriers				
MUST	When in IGMPv1 mode, routers MUST send Periodic Queries with a Max Resp Code of 0									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-10.18	RFC 3376, IG	MP Version 3,	s7.3.1 p37 ln	the Presence c	f Older Version	n Queriers				
MUST		Pv1 mode, rou	aters MUST ig	nore Leave (Group message	es I	Τ	Г		
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-10.22	RFC 3376, IG	MP Version 3,	s7.3.2 p38 ln	the Presence o	of Older Version	n Group Memb	ers				
MUST	When Group Compatibility Mode is IGMPv2, a router internally translates the IGMPv2 Report messages for that group to their IGMPv3 equivalents as IS_EX({})										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-10.23	RFC 3376, IG	MP Version 3,	s7.3.2 p38 ln	the Presence c	of Older Version	n Group Memb	ers				
MUST	internally t	ranslates th	ne IGMPv2 Lea	MPv2, a route ave messages valents as TO							
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-10.24	RFC 3376, IG	MP Version 3,	s7.3.2 p38 ln	the Presence c	of Older Version	n Group Memb	ers				
MUST	When Group Compatibility Mode is IGMPv1, a router internally translates the IGMPv1 Report messages for that group to their IGMPv3 equivalents as IS_EX({})										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-10.25	RFC 3376, IG	MP Version 3,	s7.3.2 p38 ln	the Presence c	of Older Version	n Group Memb	ers				
MUST	_			MPv1, IGMPv2 s are also ig							
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IGMPV3-12.6	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 ,and MLDv2 Reports									
MUST	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-12.7	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for S	SSM, s3.1p7 IC	MPv3 ,and MI	LDv2 Reports				
MUST	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-12.8	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for S	SSM, s3.7p8 IC	SMPv2,Leave	and MLDv1 Do	ne			
SHOULD	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IGMPV3-12.9	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for S	SSM, s3.7p8 IC	GMPv2,Leave	and MLDv1 Do	ne			
SHOULD	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: inconclusive	Ubuntu 18.04: inconclusive								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-12.10	RFC 4604, Us	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s2.2.2p4 IGMPv3 ,and MLDv2 Reports									
MAY	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.11	RFC 4604, Us	sing IGMPv3 a	nd MLDv2 for S	SSM, s3.5p8 IG	GMPv1/v2,and	MLDv1 Report	s				
SHOULD	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.13	RFC 4604, Us	sing IGMPv3 a	nd MLDv2 for S	SSM, s3.5p8 IC	SMPv1/v2,and	MLDv1 Report	s				
SHOULD	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.15	RFC 4604, Us	sing IGMPv3 a	nd MLDv2 for S	SSM, s3.5p8 IG	MPv3 and ML	.Dv2 Group-an	d-Source-Spec	ific Queries			
MUST	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-7.1	RFC 3376, IG	MP Version 3,	s4.2.15 p18 N	otation for Gro	up Records						
MUST	IS_IN (x) - Type MODE_IS_INCLUDE, source addresses x. It is sent by a system in response to a Query. It indicates that the interface has a filter mode of INCLUDE for the specified multicast addresses										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-7.3	RFC 3376, IG	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records									
MUST	It is sent by IPMulticastly that the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest of the interest	- Type CHA by a system w Listen causes terface has c ulticast addi Free BSD 10.3	whenever a lo s a change of changed to IN	ocal invocati f filter mode	on of e. It indicat	es					
	untested	untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-7.5	RFC 3376, IG	MP Version 3,	s4.2.15 p18 N	otation for Gro	up Records						
MUST	ALLOW (x) - Type ALLOW_NEW_SOURCES, source addresses x It is sent by a system whenever a local invocation of IPMulticastListen causes a change of source list. It indicates that the Source Address [i] fields in this Group Record contain a list of the additional sources that the system wishes to hear from Free BSD 10.3 Free BSD 10.3										
	untested	untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.6	RFC 3376, IG	MP Version 3,	s6.1 p26 Cond	ditions for IGMI	Queries						
MUST	particular g be forwarded only sent in	Group-and-Source Specific Queries list sources for a particular group which have been requested to no longer be forwarded Group-and-Source Specific Queries are only sent in response to State-Change Records									
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-9.7	NEGATIVE: F	RFC 3376, IGM	P Version 3, s	6.1 p26 Condit	ions for IGMP	Queries					
MUST	Group-and-Source Specific Queries list sources for a particular group which have been requested to no longer be forwarded Group-and-Source Specific Queries are never sent in response to Current-State Records Free BSD 10.3 Free BSD 10.3										
	untested	untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-9.9	RFC 3376, IG	MP Version 3,	s6.4.1 p30 Re	eception of Cur	rent-State Rec	ords					
MUST	Records IS_	er in state I IN (B), it up ource timer	odates the R	_							
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-10.2	RFC 3376, IG	MP Version 3,	s7.1 p35 Que	ry Version Dist	inctions						
MUST	The IGMP version of a Membership Query message is determined as follows: IGMPv2 Query: length = 8 octets AND Max Resp Code field is non-zero										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-10.19	RFC 3376, IG	MP Version 3,	s7.3.1 p37 ln	the Presence o	of Older Version	n Queriers					
MUST		Pv2 mode, rout the Group <i>P</i>									
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Release 8.4	Release 8.4.2	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IGMPV3-12.4	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 ,and MLDv2 Reports										
MAY	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.5	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for	SSM, s3.1p7 IC	MPv3 ,and M	LDv2 Reports					
MAY	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.12	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for	SSM, s3.5p8 IC	SMPv1/v2,and	MLDv1 Report	s				
SHOULD	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IGMPV3-12.14	RFC 4604, Us	sing IGMPv3 ar	nd MLDv2 for	SSM, s3.5p8 IC	SMPv1/v2,and	MLDv1 Report	S				
MUST	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									