



	Release 8_5_2	Release 9.0	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	04c9a28	2863e7e							
Commit Date	2023-06-15	2023-08-08							
IPV6-MLD-1.1	RFC 2710 s3	RFC 2710 s3 p2 Message Format							
MUST	All MLD messages described sent with a link-local IPv6 Source Address, an IPv6 Hop Limit of 1, and an IPv6 Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header. (Tests that MLD General Query Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.2	NEGATIVE R	FC 2710 s3 p2	Message Form	mat					
MUST	link-local : Options head (Tests that	sages descrik IPv6 Source A der. MLD General or link-local	Address, Query Messag	in a Hop-by- ge conforms t	Нор				
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.3	NEGATIVE R	FC 2710 s3 p2	Message Forr	mat					
SHOULD	an IPv6 Hop (Tests that statement fo	NEGATIVE RFC 2710 s3 p2 Message Format All MLD messages described in this document are sent with an IPv6 Hop Limit of 1, Options header. (Tests that MLD General Query Message conforms to above statement for IPv6 Hop Limit)							
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





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IPV6-MLD-1.4	NEGATIVE R	FC 2710 s3 p2	Message For	mat		•			
MUST	option [RTR- (Tests that	sages descrik -ALERT] in a MLD General or Router Ale	Hop-by-Hop (Query Messag	Options heade ge conforms t	er. to above				
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.5	NEGATIVE R	FC 2710 s3 p2	Message For	mat RFC 2460	s4 p6 IPv6 Ex	tension Heade	rs		
MUST	All MLD messages are sent with Hop-by-Hop Options header. (IPv6 Specification) The Hop-by-Hop Options header, when present, must immediately follow the IPv6 header (Tests that MLD General Query Message conforms to above statement for ordering of Hop-by-Hop Options header)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.6	RFC 2710 s3	p2 Message F	ormat						
MUST	Source Addression [RTR-	sages descrik ess, an IPv6 -ALERT] in a MLD Multicas above stater	Hop Limit of Hop-by-Hop (st-Address-Sp	f 1, and an 1 Options heade	Pv6 Router <i>P</i> er.				
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





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IPV6-MLD-1.7	NEGATIVE R	FC 2710 s3 p2	Message For	mat					
MUST	All MLD messages described in this document are sent with a link-local IPv6 Source Address, in a Hop-by-Hop Options header. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement for link-local IPv6 Source Address)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.8	NEGATIVE R	EGATIVE RFC 2710 s3 p2 Message Format							
SHOULD	an IPv6 Hop (Tests that	sages describ Limit of 1, MLD Multicas above stater Free BSD 10.3	Options st-Address-Sp	header. pecific Query					
	Ubuntu 18.04:	Ubuntu 20.04:							
	pass Free BSD 12.0 untested	pass Free BSD 12.0 untested							
IPV6-MLD-1.9	NEGATIVE R	FC 2710 s3 p2	Message For	mat					
MUST	NEGATIVE RFC 2710 s3 p2 Message Format All MLD messages described sent with IPv6 Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement for Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





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IPV6-MLD-1.10	NEGATIVE R	FC 2710 s3 p2	Message For	mat RFC 2460	s4 p6 IPv6 Ex	tension Heade	rs			
MUST	(IPv6 Special present, must (Tests that for ordering	fication) The st immediate MLD M-A-S Qu g of Hop-by-H	e Hop-by-Hop Ly follow the Lery Message	Hop-by-Hop Op Options head e IPv6 header conforms to header)	der, when					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-1.11	RFC 2710 s3	RFC 2710 s3 p2 Message Format								
MUST	All MLD messages described in this document are sent with a link-local IPv6 Source Address, an IPv6 Hop Limit of 1, and an IPv6 Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header. (Tests that MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-1.12	NEGATIVE R	FC 2710 s3 p2	Message For	mat						
MUST	All MLD messages described in this document are sent with a link-local IPv6 Source Address, in a Hop-by-Hop Options header. (Tests that MLD Report Message conforms to above statement for link-local IPv6 Source Address)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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IPV6-MLD-1.13	NEGATIVE R	FC 2710 s3 p2	: Message For	mat						
SHOULD	All MLD messages described in this document are sent with an IPv6 Hop Limit of 1, Options header. (Tests that MLD Report Message conforms to above statement for IPv6 Hop Limit)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-1.14	NEGATIVE R	FC 2710 s3 p2	Message For	mat						
MUST	option [RTR- (Tests that	sages describ -ALERT] in a MLD Report N t option [RTE Free BSD 10.3	Hop-by-Hop (Message confo	Options heade orms to above	er. e statement f	for				
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-1.15	NEGATIVE R	FC 2710 s3 p2	Message For	mat RFC 2460	s4 p6 IPv6 Ex	tension Heade	rs			
MUST	All MLD messages sent with Hop-by-Hop Options header. (IPv6 Specification) The Hop-by-Hop Options header, when present, must immediately follow the IPv6 header (Tests that MLD Report Message conforms to above statement for ordering of Hop-by-Hop Options header)									
	Free BSD 10.3	Free BSD 10.3	lop operons i	leader /						
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-1.16	RFC 2710 s3	p2 Message F	ormat							
MUST	a link-loca and an IPv6 Options head	sages descrik l IPv6 Source Router Alert der. MLD Done Mes	e Address, and option [RTF	n IPv6 Hop Li R-ALERT] in a	mit of 1, a Hop-by-Hop					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release	Release	Release	Release	Release	Release	Release	Release	
	8_5_2	9.0	X.X.X	X.X.X	X.X.X	X.X.X	X.X.X	X.X.X	
IPV6-MLD-1.17	NEGATIVE R	FC 2710 s3 n2	Message For	I mat					
SHOULD	All MLD messages described in this document are sent with a link-local IPv6 Source Address, in a Hop-by-Hop Options header. (Tests that MLD Done Message conforms to above statement for link-local IPv6 Source Address)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.18	NEGATIVE R	FC 2710 s3 p2	Message For	mat					
SHOULD	All MLD messages described in this document are sent with an IPv6 Hop Limit of 1, Options header. (Tests that MLD Done Message conforms to above statement for IPv6 Hop Limit) Free BSD 10.3 Free BSD 10.3 untested untested								
	Ubuntu 18.04:	Ubuntu 20.04:							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.19	NEGATIVE R	FC 2710 s3 p2	Message For	mat			•		
MUST	All MLD messages described sent with IPv6 Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header. (Tests that MLD Done Message conforms to above statement for Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header)								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-1.20	NEGATIVE R	FC 2710 s3 p2	Message For	mat RFC 2460	s4 p6 IPv6 Ex	tension Heade	rs		
MUST	(IPv6 Specif present,must (Tests that	fication) The	e Hop-by-Hop follow the ssage confort	ms to above s	ler, when	er.			
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





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IPV6-MLD-2.1	RFC 2710 s3	.2 p3 Code									
MUST	All MLD Messages' Code Field Initialized to zero by the sender; (Tests that MLD General Query Message conforms to above statement)										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-2.2	RFC 2710 s3.	.2 p3 Code									
MUST	(Tests that	sages' Code I MLD Multicas above stater	st-Address-S		-	der;					
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-2.3	(Tests that MI	LD Report Mes	sage conforms	s to above state	ement) RFC 27	710 s3.2 p3 Co	de				
MUST	All MLD Messages' Code Field Initialized to zero by the sender;										
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-2.4	RFC 2710 s3	.2 p3 Code									
MUST	All MLD Mes	sages' Code E MLD Done Mes			_	der;					
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





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IPV6-MLD-2.5	RFC 2710 s3.	.2 p3 Code				•		•		
MUST		sages' Code E General Quer		_		nt)				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-2.6	RFC 2710 s3.	.2 p3 Code								
MUST	(Tests that	All MLD Messages' Code Field ignored by receivers. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-2.7	RFC 2710 s3.	.2 p3 Code								
MUST	All MLD Messages' Code Field ignored by receivers. (Tests when MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-2.8	RFC 2710 s3.	.2 p3 Code								
MUST		sages' Code E MLD Done Mes		_						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-3.1	RFC 2710 s3.	.4 p3 Maximum	Response De	elay						
MUST	The Maximum Response Delay field is meaningful only in Query messages In all other messages, it is set to zero by the sender (Tests when MLD Report Message conforms to above statement) Free BSD 10.3 Free BSD 10.3									
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-3.2	RFC 2710 s3.	.4 p3 Maximum	n Response De	elay						
MUST	messages by the sende	The Maximum Response Delay field is meaningful only in Query messages In all other messages, it is set to zero by the sender (Tests MLD Done Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-3.3	RFC 2710 s3.4 p3 Maximum Response Delay									
MUST	The Maximum Response Delay field is meaningful only in Query messages In all other messages ignored by receivers. (Tests when MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-3.4	RFC 2710 s3.	.4 p3 Maximum	Response De	elay						
MUST	messages		er messages	ignored b	only in Query by receivers. statement)					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-4.1	RFC 2710 s3.	.5 p4 Reserved	i							
MUST	_	Reserved Fie			_					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.2	RFC 2710 s3.	.5 p4 Reserved	İ							
MUST	(Tests that	Reserved Fie MLD Multicas above stater	st-Address-S _l		_	nder;				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.3	(Tests that MI	LD Report Mes	sage conforms	s to above state	ement) RFC 27	710 s3.5 p4 Re	served			
MUST	MLD Message Reserved Field is Initialized to zero by the sender;									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.4	RFC 2710 s3.	.5 p4 Reserved	i							
MUST	_	Reserved Fie			_	nder;				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								



FRROUTING RFC Compliance Test Report MLDV1 Results



	Release	Release	Release	Release	Release	Release	Release	Release		
	8_5_2	9.0	x.x.x	x.x.x	x.x.x	x.x.x	x.x.x	x.x.x		
IPV6-MLD-4.5	RFC 2710 s3.	.5 p4 Reserved								
MUST	MLD Message Reserved Field is ignored by receivers. (Tests when MLD General Query Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
IDV6 MLD 4.6	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.6	RFC 2710 s3.5 p4 Reserved									
MUST	(Tests that	MLD Message Reserved Field is ignored by receivers. Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.7	RFC 2710 s3.	.5 p4 Reserved								
MUST		Reserved Fie		_						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-4.8	RFC 2710 s3.	.5 p4 Reserved								
MUST	(Tests that	Reserved Fie								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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IPV6-MLD-5.1	RFC 2710 s3.	6 p4 Multicast	Address RFC	2710 s5 p8 No	de State Trans	sition Diagram				
MUST	In a Query message, the Multicast Address field is set to zero when sending a General Query (Tests that MLD General Query Message conforms to abovestatement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-5.2	RFC 2710 s3.6 p4 Multicast Address RFC 2710 s5 p8 Node State Transition Diagram									
MUST	and set to a when sending (Tests that	In a Query message, and set to a specific IPv6 multicast address when sending a Multicast-Address-Specific Query. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-5.3	RFC 2710 s3.	6 p4 Multicast	Address							
MUST	_	76 multicast		Address field which the mes						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-5.4	RFC 2710 s3.	6 p4 Multicast	Address							
MUST	IPv6 multica		o which the	dress field h message send						
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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	8_5_2	9.0	X.X.X	x.x.x	x.x.x	X.X.X	x.x.x	x.x.x		
IPV6-MLD-6.1	RFC 2710 s3.	.7 p4 Other fiel	ds							
MUST	An implementation of the version of MLD specified in this document MUST NOT send an MLD message longer than 24 octets. (Tests that MLD General Query Message conforms to abovestatement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.2	RFC 2710 s3.	.7 p4 Other fiel	ds							
MUST	document MUS	tation of the ST NOT send a MLD Multicas above stater	an MLD messag st-Address-Sp	ge longer tha	an 24 octets.			ı		
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.3	RFC 2710 s3.	.7 p4 Other fiel	ds							
MUST	An implementation of the version of MLD specified in this document MUST NOT send an MLD message longer than 24 octets. (Tests that MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.4	RFC 2710 s3.	.7 p4 Other fiel	ds							
MUST	document MUS	tation of the ST NOT send a MLD Done Mes	an MLD messag	ge longer tha	an 24 octets.					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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IPV6-MLD-6.5	RFC 2710 s3.	7 p4 Other fiel	ds				•	•		
MUST	An implementation of the version of MLD specified and MUST ignore anything past the first 24 octets of a received MLD message. (Tests that General Query Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.6	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	and MUST ign 24 octets on (Tests that	nore anything f a received	g past the f: MLD message st-Address-Sp							
	Ubuntu 18.04:	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.7	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	An implementation of the version of MLD specified and MUST ignore anything past the first 24 octets of a received MLD message. (Tests that MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.8	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	and MUST ign	nore anything	g past the f	MLD specified irst 24 octet ms to above s	s of a recei	lved				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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IPV6-MLD-6.9	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	In all cases, the MLD checksum MUST be computed over the entire MLD message, not just the first 24 octets. (Tests that MLD General Query Message conforms to above statement) Free BSD 10.3 Free BSD 10.3									
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.10	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	MLD message (Tests that conforms to	, not just the MLD Multicas above stater	ne first 24 o st-Address-Sp	be computed octets. pecific Query		ire				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.11	RFC 2710 s3.7 p4 Other fields									
MUST	In all cases, the MLD checksum MUST be computed over the entire MLD message, not just the first 24 octets. (Tests when MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-6.12	RFC 2710 s3.	7 p4 Other fiel	ds							
MUST	MLD message	, not just th	ne first 24 d	be computed octets. ms to above s		ire				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-7.1	RFC 2710 s4	p4 Protocol De	escription							
MUST	For each attached link, a router selects one of its link-local unicast addresses on that link to be used as the IPv6 Source Address in all MLD packets it transmits on that link. (Tests that MLD General Query Message conforms to above									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.2	RFC 2710 s4	p4 Protocol De	escription							
MUST	unicast add Address in a (Tests that	tached link, resses on the all MLD packe MLD Multicas above staten	at link to be ets it transm st-Address-Sp	e used as the nits on that	e IPv6 Source link.		Г			
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.3	RFC 2710 s4	p4 Protocol De	escription							
MUST	For each attached link, a router selects one of its link-local unicast addresses on that link to be used as the IPv6 Source Address in all MLD packets it transmits on that link. (Tests that MLD Report Message conforms to above statement)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.4	RFC 2710 s4	p4 Protocol De	escription							
MUST	unicast addı Address in a	tached link, resses on tha all MLD packe MLD Done Mes	at link to be ets it transm	e used as the nits on that	e IPv6 Source link.					
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release	Release	Release	Release	Release	Release	Release	Release		
	8_5_2	9.0	X.X.X	X.X.X	X.X.X	X.X.X	X.X.X	X.X.X		
IPV6-MLD-7.5	RFC 2710 s4	p5 Protocol De	escription				•			
MUST	For each the router must configure that interface to listen to all link-layer multicast address that can be generated by IPv6 multicasts.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.6	RFC 2710 s4	p5 Protocol De	escription							
MUST	Address is address for	hears a Quer numerically I that link, i on that link	less than its It MUST becom	s own selecte		l	I			
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.7	NEGATIVE R	FC 2710 s4 p5	Protocol Desc	cription						
MUST	If a router hears a Query message whose IPv6 Source Address is numerically less than its own selected address for that link, it MUST become a Non-Querier on that link.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.8	RFC 2710 s4	p5 Protocol De	escription							
MUST	from a part:	uerier Preser icular attach less than its that link.	ned link, an	y Queries fro	om a router v	• •				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-7.9	RFC 2710 s4	p5 Protocol De	escription							
SHOULD	Queries space multicas	a router SHO ced closely to st listeners router sends ether [Startu	cogether [Sta on those lin MLD Startum	artup Query I nks. p General Que	Interval] on	ral				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
IDVO MI D 7 10	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.10	RFC 2710 s4	FC 2710 s4 p5 Protocol Description								
SHOULD	On startup, a router SHOULD send [Startup Query Count] General Queries spaced closely together [Startup Query Interval] on multicast listeners on those links. (Tests that router sends [Startup Query Count] MLD Startup General Queries									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.11	RFC 2710 s4	p5 Protocol De	escription RFC	2710 s5 p10 N	lode State Tra	nsition Diagran	n			
MUST	each multica	receives a (ast address t rom which it all-nodes add	to which it is received the	is listening	on the	for				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	
IPV6-MLD-7.12	RFC 2710 s4	p5 Protocol De	escription						
MUST	When a node receives a General Query Each timer is set to a different random value, using the highest clock granularity available on the node, selected from the range [0, Maximum Response Delay] with Maximum Response Delay as specified in the Query packet.								
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-7.13	RFC 2710 s4	p5 Protocol De	escription						
MUST	address is a only if the	receives a (already runni requested Ma alue of the n Free BSD 10.3 untested	ing, it is re aximum Respon	eset to the r nse Delay is	new random va				
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-7.14	RFC 2710 s4	p5 Protocol De	escription						
MUST	When a node receives a General Query If the Query packet specifies a Maximum Response Delay of zero, each timer is effectively set to zero, and the action specified below for timer expiration is performed immediately. Free BSD 10.3 Free BSD 10.3								
	untested	untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							
IPV6-MLD-7.15	RFC 2710 s4	p6 Protocol De	escription						
MUST	is listening from which that address	receives a M g to the quenthe Query was s to a randor Response Del	ried Multicas s received, : n value selec	st Address or it sets a del cted from the	n the interfa ay timer for	ice			
	Free BSD 10.3 untested	Free BSD 10.3 untested							
	Ubuntu 18.04: pass	Ubuntu 20.04: pass							
	Free BSD 12.0 untested	Free BSD 12.0 untested							





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x				
IPV6-MLD-7.16	RFC 2710 s4	p6 Protocol De	escription			•	•	•				
MUST	When a node receives a Multicast-Address-Specific Query if a timer for the address is already running, it is reset to the new random value only if the requested Maximum Response Delay is less than the remaining value of the running timer.											
	Free BSD 10.3 untested	Free BSD 10.3 untested										
	Ubuntu 18.04: pass	Ubuntu 20.04: pass										
	Free BSD 12.0 untested	Free BSD 12.0 untested										
IPV6-MLD-7.17	RFC 2710 s4	RFC 2710 s4 p6 Protocol Description										
MUST	the Query pa	receives a Macket specififectively setion is performance. Free BSD 10.3	ies a Maximum t to zero, am	m Response Dend the action	elay of zero	, the						
	Ubuntu 18.04:	Ubuntu 20.04:										
	Free BSD 12.0	Free BSD 12.0 untested										
IPV6-MLD-7.18	RFC 2710 s4	p6					1	l				
MUST	If a node's timer for a particular multicast address on the address being reported is carried in both the IPv6 Destination Address field and the MLD Multicast Address field of the Report packet.											
	Free BSD 10.3 untested	Free BSD 10.3 untested										
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass										
	Free BSD 12.0 untested	Free BSD 12.0 untested										
IPV6-MLD-7.19	RFC 2710 s4	p6 Protocol De	escription		l							
MUST	for a multion same address	eceives anoth cast address s on that int rt for that a the link.	while it has terface, it s	s a timer rur stops its tir	nning for tha							
	Free BSD 10.3 untested	Free BSD 10.3 untested										
	Ubuntu 18.04: pass	Ubuntu 20.04: pass										
	Free BSD 12.0 untested	Free BSD 12.0 untested										





	Release	Release	Release	Release	Release	Release	Release	Release		
	8_5_2	9.0	X.X.X	x.x.x	x.x.x	X.X.X	X.X.X	X.X.X		
IPV6-MLD-7.20	RFC 2710 s4	p6 Protocol De	escription							
MUST	When a router receives a Report from a link, if the reported address is not already present in the router's list of multicast address its timer is set to [Multicast Listener Interval], and its appearance is made known to the router's multicast routing component.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.21	RFC 2710 s4 p6 Protocol Description									
MUST	present in t	If a Report is received for a multicast address that is already present in the router's list, the timer for that address is reset to [Multicast Listener Interval].								
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.22	RFC 2710 s4	p6 Protocol De	escription							
MUST	longer any i	listeners for	that addres	s assumed that ss present or sappearance i	the link, s	so it				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.23	RFC 2710 s4	p6 Protocol De	escription							
миѕт	When a node starts listening to a Multicast Address on an interface, it should immediately transmit an unsolicited Report for that address on that interface, in case it is the first listener on the link									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								



FRROUTING RFC Compliance Test Report MLDV1 Results



	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-7.24	RFC 2710 s4	p6								
MUST	To cover the possibility of the initial Report being lost or damaged, it is recommended that it be repeated once or twice after short delays [Unsolicited Report Interval].									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.25	RFC 2710 s4	p7 Protocol De	escription							
SHOULD	interface, a	ceases to li it SHOULD ser all-routers m icast Address listen. Free BSD 10.3	nd a single I nulticast add	Done message dress (FF02:	to the 2), carrying	a a	Ι			
	untested	untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.26	RFC 2710 s4	p7 Protocol De	escription							
MUST	If the node's most recent Report message was suppressed by hearing another Report message, it MAY send nothing, highly likely that there is another listener for that address still present on the same link. If this optimization is implemented, it MUST be able to be turned off but SHOULD default to on.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-7.27	RFC 2710 s4	p7 Protocol De	scription RFC	2710 s6 p14 F	Router State Tr	ansition Diagra	am			
MUST	When a route Querier send Specific Que that multica	er in Querier ds [Last List eries, one ev ast address. Querier seno	state rece tener Query (very [Last L	ives a Done n Count] Multio istener Query	nessage t cast-Address / Interval] t	the - to				
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release	Release	Release	Release	Release	Release	Release	Release		
	8_5_2	9.0	X.X.X	x.x.x	x.x.x	x.x.x	x.x.x	x.x.x		
IPV6-MLD-7.28	RFC 2710 s4	p7 Protocol De	escription							
MUST	the Querier Specific Que that multica	er in Querier sends [Last eries, one ev ast address. Querier send Free BSD 10.3 untested	Listener Que very [Last Li	ery Count] Mu istener Query	ulticast-Addr / Interval] t	0				
	Ubuntu 18.04: pass Free BSD 12.0 untested	Ubuntu 20.04: pass Free BSD 12.0 untested								
IDV6 MLD 7 20			· DEO	0740 5 401		··· B·				
MUST	These Multic Response De:	hese Multicast-Address-Specific Queries have their Maximum esponse Delay set to [Last Listener Query Interval]. Free BSD 10.3 Free BSD 10.3								
	Ubuntu 18.04: FAIL Free BSD 12.0 untested	Ubuntu 20.04: pass Free BSD 12.0 untested								
IPV6-MLD-7.30	RFC 2710 s4	n7 Protocol De	escription							
MUST	If no Report the response on the link there; the a	ts for the ace delay of the assume that address is the ce is made known the second control of the second contr	ddress are re ne last query the address nerefore dele	y has passed, no longer ha eted from the	the routers as any lister e list and it	ers ers				
	Ubuntu 18.04: pass Free BSD 12.0	Ubuntu 20.04: pass Free BSD 12.0								
	untested	untested								
IPV6-MLD-7.31	RFC 2710 s4	p7 Protocol De	scription RFC	2710 s6 p14 F	Router State Tr	ansition Diagra	am			
MUST	This process is continued to its resolution (i.e. until a Report is received or the last MLD Multicast-Address-Specific Query Message is sent with no response) despite any transition from Querier to Non-Querier on this link.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: FAIL								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





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	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x			
IPV6-MLD-7.32							1				
MUST	Free BSD 10.3	Non-Querier s	state MUST 19	gnore Done me	essages.			<u> </u>			
	untested	untested									
	Ubuntu 18.04:	Ubuntu 20.04:									
	pass	pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-8.1	RFC 2710 s5 p8 Node State Transition Diagram RFC 2710 s6 p11 Router State Transition Diagram										
MUST	Source Addre	, the Query ress, be at lend. MLD General	east 24 octet	s long, and	have a corre						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-8.2		RFC 2710 s5 p8 Node State transition Diagram RFC 2710 s6 p11 Router State Transition Diagram RFC 2710 s6 p13 Router State Transition Diagram									
MUST	Source Addre MLD checksum (Tests that	, the Query ress, be at le n. MLD Multicas above stater	east 24 octet st-Address-Sp	s long, and	have a corre						
	Free BSD 10.3 untested	Free BSD 10.3 untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									
IPV6-MLD-8.3	RFC 2710 s5	p8 Node State	transition Diag	gram RFC 271	0 s6 p13 Route	er State Transi	tion Diagram				
MUST	Source Addre	, the Report ess, be at le m. MLD Report N	east 24 octet	have a corre							
	Free BSD 10.3	Free BSD 10.3									
	untested	untested									
	Ubuntu 18.04: pass	Ubuntu 20.04: pass									
	Free BSD 12.0 untested	Free BSD 12.0 untested									





	Dalagas	Dologoo	Dologoo	Dologoo	Dologoo	Dologoo	Dalagas	Dologoo		
	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-8.4	RFC 2710 s5 p8 Node State Transition Diagram									
MUST	Queries are ignored for addresses in the Non-Listener state.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-8.5	RFC 2710 s5 p10 Node State Transition Diagram									
MUST	MLD messages are never sent for multicast addresses whose scope is 0 (reserved)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-8.6	RFC 2710 s5 p10 Node State Transition Diagram									
MUST	MLD messages are never sent for multicast addresses whose scope is 1 (node-local)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-8.7	RFC 2710 s5	p10 Node Stat	e Transition D	agram						
MUST	MLD messages ARE sent for multicast addresses whose scope is 2 (link-local),including Solicited-Node multicast addresses [ADDR-ARCH], except for the link-scope, all-nodes address (FF02::1). (Tests that MLD messages are sent for Solicited-Node multicast addresses)									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								





	Release 8_5_2	Release 9.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x		
IPV6-MLD-9.1	RFC 2710 s6 p13 Router State Transition Diagram									
MUST	To be valid, the Done message MUST come from a link-local IPv6 Source Address, be at least 24 octets long, and have a correct MLD checksum.									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: FAIL	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-9.2	RFC 2710 s6 p13 Router State Transition Diagram RFC 2710 s4 p7 Protocol Description									
MUST	start timer* the Maximum Response Delay in the Query message * [Last Listener Query Count] if this router is a non-Querier. When a router in Non-Querier state receives a Multicast-Address- Specific Query, address is greater than [Last Listener Query Count] times the Maximum Response Delay that latter value. Free BSD 10.3 Free BSD 10.3									
	untested	untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								
IPV6-MLD-9.3	RFC 2710 s6	p15 Router Sta	ate Transition [Diagram						
MUST	Initial State : Checking Listener Event : rexmt timer expired Action : Send Multicast Address Specific Queries Final State : Checking Listener									
	Free BSD 10.3 untested	Free BSD 10.3 untested								
	Ubuntu 18.04: pass	Ubuntu 20.04: pass								
	Free BSD 12.0 untested	Free BSD 12.0 untested								