



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
Type	FRR	FRR	FRR	FRR	FRR	FRR	FRR
Commit ID	99477bc	62ac43d	86a5e5a	933b834	7a2b85a	61ba3a4	852b11e
Commit Date	2022-11-03	2023-01-10	2023-03-13	2023-03-16	2023-04-23	2023-06-14	2023-11-22
ANVL-IPV6-MLD-1.1 MUST	RFC 2710 s3 p2 Message Format						
	<p>Message Format Tests</p> <p>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)</p>						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-1.2 MUST	NEGATIVE RFC 2710 s3 p2 Message Format						
	<p>Message Format Tests</p> <p>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 General Query Message conforms to above statement for link-local IPv6 Source Address)</p>						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-1.6 MUST	RFC 2710 s3 p2 Message Format						
	<p>Message Format Tests</p> <p>All MLD messages described ... 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 Multicast-Address-Specific Query Message conforms to above statement)</p>						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-1.12 MUST	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-1.13 SHOULD	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-1.14 MUST	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests All MLD messages described ... sent with ... IPv6 Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header. (Tests that MLD Report Message conforms to above statement for Router Alert option [RTR-ALERT] in a Hop-by-Hop Options header)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-1.15 MUST	NEGATIVE RFC 2710 s3 p2 Message Format RFC 2460 s4 p6 IPv6 Extension Headers						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-1.16 MUST	RFC 2710 s3 p2 Message Format						
	Message Format Tests 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 Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass	
ANVL-IPV6-MLD-1.17 SHOULD	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	
ANVL-IPV6-MLD-1.18 SHOULD	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	
ANVL-IPV6-MLD-1.19 MUST	NEGATIVE RFC 2710 s3 p2 Message Format						
	Message Format Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass	



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-1.20 MUST	NEGATIVE RFC 2710 s3 p2 Message Format RFC 2460 s4 p6 IPv6 Extension Headers						
	Message Format Tests 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 Done Message conforms to above statement for ordering of Hop-by-Hop Options header)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-2.1 MUST	RFC 2710 s3.2 p3 Code						
	Code Field All MLD Messages" Code Field Initialized to zero by the sender; (Tests that MLD General Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-2.2 MUST	RFC 2710 s3.2 p3 Code						
	Code Field All MLD Messages" Code Field Initialized to zero by the sender; (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-2.7 MUST	RFC 2710 s3.2 p3 Code						
	Code Field All MLD Messages" Code Field ignored by receivers. (Tests when MLD Report Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-2.8 MUST	RFC 2710 s3.2 p3 Code						
	Code Field All MLD Messages" Code Field ignored by receivers. (Tests when MLD Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-3.3 MUST	RFC 2710 s3.4 p3 Maximum Response Delay						
	Maximum Response Delay 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-3.4 MUST	RFC 2710 s3.4 p3 Maximum Response Delay						
	Maximum Response Delay The Maximum Response Delay field is meaningful only in Query messages ... In all other messages ... ignored by receivers. (Tests that MLD Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-4.1 MUST	RFC 2710 s3.5 p4 Reserved						
	Reserved Field MLD Message Reserved Field is Initialized to zero by the sender; (Tests that MLD General Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-4.2 MUST	RFC 2710 s3.5 p4 Reserved						
	Reserved Field MLD Message Reserved Field is Initialized to zero by the sender; (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-4.7 MUST	RFC 2710 s3.5 p4 Reserved						
	Reserved Field MLD Message Reserved Field is ignored by receivers. (Tests that MLD Report Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-4.8 MUST	RFC 2710 s3.5 p4 Reserved						
	Reserved Field MLD Message Reserved Field is ignored by receivers. (Tests that MLD Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-5.1 MUST	RFC 2710 s3.6 p4 Multicast Address RFC 2710 s5 p8 Node State Transition Diagram						
	Multicast Address Tests 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 above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-5.2 MUST	RFC 2710 s3.6 p4 Multicast Address RFC 2710 s5 p8 Node State Transition Diagram						
	Multicast Address Tests 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-6.1 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields 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 above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-6.2 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields An implementation of the version of MLD specified in this document MUST NOT send an MLD message longer than 24 octets. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-6.7 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-6.8 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields 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 Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-6.11 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-6.12 MUST	RFC 2710 s3.7 p4 Other fields						
	Other Fields In all cases, the MLD checksum MUST be computed over the entire MLD message, not just the first 24 octets. (Tests when MLD Done Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.1 MUST	RFC 2710 s4 p4 Protocol Description						
	Protocol Description 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 statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-7.2 MUST	RFC 2710 s4 p4 Protocol Description						
	Protocol Description 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 Multicast-Address-Specific Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.5 MUST	RFC 2710 s4 p5 Protocol Description						
	Protocol Description For each ... the router must configure that interface to listen to all link-layer multicast address that can be generated by IPv6 multicasts.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.6 MUST	RFC 2710 s4 p5 Protocol Description						
	Protocol Description 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.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.7 MUST	NEGATIVE RFC 2710 s4 p5 Protocol Description						
	Protocol Description 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.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-7.8 MUST	RFC 2710 s4 p5 Protocol Description						
	Protocol Description If [Other Querier Present Interval] passes without receiving, from a particular attached link, any Queries from a router with an address less than its own, a router resumes the role of Querier on that link.						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-7.9 SHOULD	RFC 2710 s4 p5 Protocol Description						
	Protocol Description 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 MLD Startup General Queries spaced closely together [Startup Query Interval])						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.10 SHOULD	RFC 2710 s4 p5 Protocol Description						
	Protocol Description 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.11 MUST	RFC 2710 s4 p5 Protocol Description RFC 2710 s5 p10 Node State Transition Diagram						
	Protocol Description When a node receives a General Query, it sets a delay timer for each multicast address to which it is listening on the interface from which it received the Query, EXCLUDING the link-scope all-nodes address						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-7.20 MUST	RFC 2710 s4 p6 Protocol Description						
	Protocol Description 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.						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-7.21 MUST	RFC 2710 s4 p6 Protocol Description						
	Protocol Description 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].						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-7.28 MUST	RFC 2710 s4 p7 Protocol Description						
	Protocol Description When a router in Querier state receives a Done message ... the Querier sends [Last Listener Query Count] Multicast-Address-Specific Queries, one every [Last Listener Query Interval] to that multicast address. (Tests that Querier sends [Last Listener Query Count] Messages)						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-7.29 MUST	RFC 2710 s4 p7 Protocol Description						
	RFC 2710 s5 p13 Node State Transition Diagram						
	Protocol Description These Multicast-Address-Specific Queries have their Maximum Response Delay set to [Last Listener Query Interval].						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-7.30 MUST	RFC 2710 s4 p7 Protocol Description						
	Protocol Description If no Reports for the address are received from the link after the response delay of the last query has passed, the routers on the link assume that the address no longer has any listeners there; the address is therefore deleted from the list and its disappearance is made known to the multicast routing component.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-7.31 MUST	RFC 2710 s4 p7 Protocol Description RFC 2710 s6 p14 Router State Transition Diagram						
	Protocol Description 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.						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IPV6-MLD-7.32 MUST	RFC 2710 s4 p7 Protocol Description						
	Protocol Description Routers in Non-Querier state MUST ignore Done messages.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-8.1 MUST	RFC 2710 s5 p8 Node State Transition Diagram RFC 2710 s6 p11 Router State Transition Diagram						
	Node State Transitions To be valid, the Query message MUST come from a link-local IPv6 Source Address, be at least 24 octets long, and have a correct MLD checksum. (Tests that MLD General Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21
ANVL-IPV6-MLD-8.2 MUST	RFC 2710 s5 p8 Node State transition Diagram RFC 2710 s6 p11 Router State Transition Diagram RFC 2710 s6 p13 Router State Transition Diagram						
	Node State Transitions To be valid, the Query message MUST come from a link-local IPv6 Source Address, be at least 24 octets long, and have a correct MLD checksum. (Tests that MLD Multicast-Address-Specific Query Message conforms to above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-8.7 MUST	RFC 2710 s5 p10 Node State Transition Diagram						
	Node State Transitions 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-9.2 MUST	RFC 2710 s6 p13 Router State Transition Diagram RFC 2710 s4 p7 Protocol Description						
	Router State Transitions 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.						
	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: pass	Debian 12: pass
ANVL-IPV6-MLD-9.3 MUST	RFC 2710 s6 p15 Router State Transition Diagram						
	Router State Transitions Initial State : Checking Listener Event : rexmt timer expired Action : Send Multicast Address Specific Queries Final State : Checking Listener						
	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: FAIL	Debian 12: FAIL	Debian 12: FAIL