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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-IGMPV3-1.1 MUST	RFC 3376, IGMP Version 3						
	IGMPv3 DUT Setup Verification Tests Quick test to verify that DUT acts as an IGMPv3 Router						
	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-IGMPV3-4.1 MUST	RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	Message Formats IGMP messages are encapsulated in IPv4 datagrams, with an IP protocol number of 2 (Tests that IGMPv3 Membership 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-IGMPV3-4.4 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	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)						
	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-IGMPV3-4.5 MUST	RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	Message Formats Every IGMP message described in this document is sent with an IP Time-to-Live of 1 (Tests that IGMPv3 Membership 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	



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ANVL-IGMPV3-4.8 SHOULD	NEGATIVE: RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	<p>Message Formats</p> <p>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)</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
ANVL-IGMPV3-4.9 MUST	RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	<p>Message Formats</p> <p>Every IGMP message described in this document is sent with IP Precedence of Internetwork Control (e.g., Type of Service 0xc0) (Tests that IGMPv3 Membership 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
ANVL-IGMPV3-4.13 MUST	RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	<p>Message Formats</p> <p>Every IGMP message described in this document carries an IP Router Alert option [RFC-2113] in its IP header (Tests that IGMPv3 Membership 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
ANVL-IGMPV3-4.16 SHOULD	NEGATIVE: RFC 3376, IGMP Version 3, s4 p7 Message Formats						
	<p>Message Formats</p> <p>Every IGMP message described in this document carries an IP Router Alert option [RFC-2113] in its IP header (Tests that IGMPv3 Membership Report Message conforms to above statement)</p>						
	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



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ANVL-IGMPV3-4.17 MUST	RFC 3376, IGMP Version 3, s4 p8 Message Formats						
	Message Formats 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]						
	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-IGMPV3-4.18 MUST	RFC 3376, IGMP Version 3, s4 p8 Message Formats						
	Message Formats An implementation of IGMPv3 MUST also support the following message type, for interoperation with previous versions of IGMP: 0x16 Version 2 Membership Report [RFC-2236]						
	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-IGMPV3-4.19 MUST	RFC 3376, IGMP Version 3, s4 p8 Message Formats						
	Message Formats An implementation of IGMPv3 MUST also support the following message type, for interoperation with previous versions of IGMP: 0x17 Version 2 Leave Group [RFC-2236]						
	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-IGMPV3-5.4 MUST	RFC 3376, IGMP Version 3, s4.1.2 p10 Checksum						
	Membership Query Message The Checksum is the 16-bit one's complement of the one's complement sum of the whole IGMP message (the entire IP payload).						
	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	



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ANVL-IGMPV3-5.6 MUST	RFC 3376, IGMP Version 3, s4.1.3 p10 Group Address						
	Membership Query Message The Group Address field is set to zero when sending a General Query						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.7 MUST	RFC 3376, IGMP Version 3, s4.1.3 p10 Group Address						
	Membership Query Message The Group Address field is set to the IP multicast address being queried when sending a Group-Specific Query						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.8 MUST	RFC 3376, IGMP Version 3, s4.1.3 p10 Group Address						
	Membership Query Message The Group Address field is set to the IP multicast address being queried when sending a Group-and-Source-Specific Query						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.9 MUST	RFC 3376, IGMP Version 3, s4.1.4 p10 Resv (Reserved)						
	Membership Query Message The Resv field is set to zero on transmission						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.11 MUST	RFC 3376, IGMP Version 3, s4.1.5 p10 S Flag (Suppress Router-Side Processing) RFC 3376, IGMP Version 3, s6.6.1. p33 Timer Updates						
	Membership Query Message When set to one, the S Flag indicates to any receiving multicast routers that they are to suppress the normal timer updates they perform upon hearing a Query While received Q(G) Group Timer is lowered to LMQT if S-Flag is not set (Tests for S Flag set to 1)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-5.12 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.1.5 p10 S Flag (Suppress Router-Side Processing) NEGATIVE: RFC 3376, IGMP Version 3, s6.6.1. p33 Timer Updates						
	Membership Query Message When set to one, the S Flag indicates to any receiving multicast routers that they are to suppress the normal timer updates they perform upon hearing a Query While received Q(G) Group Timer is lowered to LMQT if S-Flag is not set (Tests for S Flag set to 0)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.13 MUST	RFC 3376, IGMP Version 3, s4.1.5 p10 S Flag (Suppress Router-Side Processing)						
	Membership Query Message When the S Flag is set to one, it does not, however, suppress the querier election						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.14 MUST	RFC 3376, IGMP Version 3, s4.1.7 p10 QVIC (Querier's Query Interval Code)						
	Membership Query Message The Querier's Query Interval Code field specifies the [Query Interval] used by the querier. The actual interval, called the Querier's Query Interval (QQI), is represented in units of seconds						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.15 MUST	RFC 3376, IGMP Version 3, s4.1.8 p11 Number of Sources (N)						
	Membership Query Message The Number of Sources (N) field specifies how many source addresses are present in the Query. This number is zero in a General Query						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-5.16 MUST	RFC 3376, IGMP Version 3, s4.1.8 p11 Number of Sources (N)						
	Membership Query Message The Number of Sources (N) field specifies how many source addresses are present in the Query. This number is zero in a Group Specific Query						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.17 MUST	RFC 3376, IGMP Version 3, s4.1.8 p11 Number of Sources (N)						
	Membership Query Message 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.18 MUST	RFC 3376, IGMP Version 3, s4.1.9 p11 Source Address [i]						
	Membership Query Message 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 General Query Message conforms to the above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.19 MUST	RFC 3376, IGMP Version 3, s4.1.9 p11 Source Address [i]						
	Membership Query Message 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-Specific Query Message conforms to the above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-5.20 MUST	RFC 3376, IGMP Version 3, s4.1.9 p11 Source Address [i]						
	Membership Query Message 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.21 MUST	RFC 3376, IGMP Version 3, s4.1.10 p11 Additional Data						
	Membership Query Message 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.22 MUST	RFC 3376, IGMP Version 3, s4.1.10 p11 Additional Data						
	Membership Query Message When sending a Query, an IGMPv3 implementation MUST NOT include additional octets beyond the fields described here (Tests that IGMPv3 Group-Specific Query Message conforms to the above statement)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.23 MUST	RFC 3376, IGMP Version 3, s4.1.10 p11 Additional Data						
	Membership Query Message 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-5.26 MUST	RFC 3376, IGMP Version 3, s4.1.10 p12 Query Variants						
	Membership Query Message In a Group-Specific Query, the Group Address field contains the multicast address of interest, and the Number of Sources (N) field contains zero						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.27 MUST	RFC 3376, IGMP Version 3, s4.1.10 p12 Query Variants						
	Membership Query Message In a Group-and-Source-Specific Query, Source Address [i] fields contain the source address(es) of interest						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.28 MUST	RFC 3376, IGMP Version 3, s4.1.12 p12 IP Destination Addresses for Queries						
	Membership Query Message In IGMPv3, General Queries are sent with an IP destination address of 224.0.0.1, the all-systems multicast address						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.29 MUST	RFC 3376, IGMP Version 3, s4.1.12 p12 IP Destination Addresses for Queries						
	Membership Query Message Group-Specific Queries are sent with an IP destination address equal to the multicast address of interest						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-5.30 MUST	RFC 3376, IGMP Version 3, s4.1.12 p12 IP Destination Addresses for Queries						
	Membership Query Message Group-and-Source Specific Queries are sent with an IP destination address equal to the multicast address of interest						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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

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ANVL-IGMPV3-6.2 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.1 p14 Reserved						
	Version 3 Membership Report Message In Version 3 Membership Report Message, the Reserved fields are ignored on reception						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.4 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.2 p14 Checksum						
	Version 3 Membership Report Message When receiving Version 3 Membership Report packets, the checksum MUST be verified before processing a message						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.10 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.10 p15 Auxiliary Data						
	Version 3 Membership Report Message Implementations of IGMPv3 MUST ignore any auxiliary data present in any received Group Record in a Version 3 Membership Report						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.12 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.11 p15 Additional Data						
	Version 3 Membership Report Message If the Packet Length field in the IP header of a received Report indicates that there are additional octets of data present, beyond the last Group Record, IGMPv3 implementations MUST include those octets in the computation to verify the received IGMP Checksum						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-6.13 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.11 p15 Additional Data						
	Version 3 Membership Report Message 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.24 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.13 p17 IP Source Addresses for Reports						
	Version 3 Membership Report Message Routers MUST accept a report with a source address of 0.0.0.0						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.26 MUST	RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports						
	Version 3 Membership Report Message Version 3 Reports are sent with an IP destination address of 224.0.0.22, to which all IGMPv3-capable multicast routers listen						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.29 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports						
	Version 3 Membership Report Message 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 multicast address)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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



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ANVL-IGMPV3-6.30 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports						
	Version 3 Membership Report Message In addition, a system MUST accept and process any version 1 or version 2 Report whose IP Destination Address field contains <i>*any*</i> of the addresses (unicast or multicast) assigned to the interface on which the Report arrives (Tests for IGMPv1 compatibility mode and unicast address)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IGMPV3-6.31 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports						
	Version 3 Membership Report Message In addition, a system MUST accept and process any version 1 or version 2 Report whose IP Destination Address field contains <i>*any*</i> of the addresses (unicast or multicast) assigned to the interface on which the Report arrives (Tests for IGMPv2 compatibility mode and multicast address)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-6.32 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s4.2.14 p18 IP Destination Addresses for Reports						
	Version 3 Membership Report Message In addition, a system MUST accept and process any version 1 or version 2 Report whose IP Destination Address field contains <i>*any*</i> of the addresses (unicast or multicast) assigned to the interface on which the Report arrives (Tests for IGMPv2 compatibility mode and unicast address)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-7.1 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other



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ANVL-IGMPV3-7.2 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message IS_EX (x) - Type MODE_IS_EXCLUDE, source addresses x It is sent by a system in response to a Query. It indicates that the interface has a filter mode of EXCLUDE for the specified multicast addresses						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-7.3 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message TO_IN (x) - Type CHANGE_TO_INCLUDE_MODE, source addresses x It is sent by a system whenever a local invocation of IPMulticastListen causes a change of filter mode. It indicates that the interface has changed to INCLUDE filter mode for the specified multicast address						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-7.4 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message TO_EX (x) - Type CHANGE_TO_EXCLUDE_MODE, source addresses x It is sent by a system whenever a local invocation of IPMulticastListen causes a change of filter mode. It indicates that the interface has changed to EXCLUDE filter mode for the specified multicast address						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-7.5 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other



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ANVL-IGMPV3-7.6 MUST	RFC 3376, IGMP Version 3, s4.2.15 p18 Notation for Group Records						
	Version 3 Membership Report Message 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-8.1 MUST	RFC 3376, IGMP Version 3, s5 p19 Description of the Protocol for Group Members						
	Description of the Protocol for Group Members 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.1 MUST	RFC 3376, IGMP Version 3, s6 p25 Description of the Protocol for Multicast Routers						
	Description of the Protocol for Multicast Routers On each interface over which this protocol is being run, the router MUST enable reception of multicast address 224.0.0.22, from all sources						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.2 MUST	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries RFC 3376, IGMP Version 3, s8.2 p40 Query Interval						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.3 MUST	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries						
	Description of the Protocol for Multicast Routers 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 group deletion by IGMPv3 router)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.4 MUST	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries						
	Description of the Protocol for Multicast Routers 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)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.5 MUST	RFC 3376, IGMP Version 3, s6.1 p25 Conditions for IGMP Queries						
	Description of the Protocol for Multicast Routers Group-Specific Queries are sent when a router receives a State-Change record indicating a system is leaving a group						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.6 MUST	RFC 3376, IGMP Version 3, s6.1 p26 Conditions for IGMP Queries						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other



	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-IGMPV3-9.7 MUST	NEGATIVE: RFC 3376, IGMP Version 3, s6.1 p26 Conditions for IGMP Queries						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.8 MUST	RFC 3376, IGMP Version 3, s6.2.1 p27 Definition of Router Filter-Mode						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.9 MUST	RFC 3376, IGMP Version 3, s6.4.1 p30 Reception of Current-State Records						
	Description of the Protocol for Multicast Routers When a router in state INCLUDE (A), receiving Current-State Records IS_IN (B), it updates the Router State to INCLUDE (A+B) and source timer (B)=GMI.						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.10 MUST	RFC 3376, IGMP Version 3, s6.4.1 p30 Reception of Current-State Records Filter-Mode						
	Description of the Protocol for Multicast Routers When a router in state INCLUDE (A), receiving Current-State Records IS_EX (B), it updates the Router State to EXCLUDE (A*B,B-A) and source timer (B-A)=0, Delete (A-B).						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other

	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-IGMPV3-9.11 MUST	RFC 3376, IGMP Version 3, s6.4.2 p31 Reception of Filter-Mode-Change and Source-List-Change Records						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.12 MUST	RFC 3376, IGMP Version 3, s6.4.2 p31 Reception of Filter-Mode-Change and Source-List-Change Records						
	Description of the Protocol for Multicast Routers When a router in state INCLUDE (A), receiving BLOCK (B), it updates the Router State to INCLUDE (A) and sends Q(G,A*B) at [Last Member Query Interval] interval, in order to maintain protocol robustness						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-9.13 MUST	RFC 3376, IGMP Version 3, s6.6.2 p34 Querier Election						
	Description of the Protocol for Multicast Routers 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-9.14 MUST	RFC 3376, IGMP Version 3, s6.6.2 p34 Querier Election						
	Description of the Protocol for Multicast Routers When a router receives a query with a lower IP address ... After its Other-Querier Present timer expires, it should begin sending General Queries						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.1 MUST	RFC 3376, IGMP Version 3, s7.1 p35 Query Version Distinctions						
	Interoperation With Older Versions of IGMP The IGMP version of a Membership Query message is determined as follows: IGMPv1 Query: length = 8 octets AND Max Resp Code field is zero						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-10.2 MUST	RFC 3376, IGMP Version 3, s7.1 p35 Query Version Distinctions						
	Interoperation With Older Versions of IGMP 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						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.3 MUST	RFC 3376, IGMP Version 3, s7.1 p35 Query Version Distinctions						
	Interoperation With Older Versions of IGMP The IGMP version of a Membership Query message is determined as follows: IGMPv3 Query: length >= 12 octets						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.17 MUST	RFC 3376, IGMP Version 3, s7.3.1 p37 In the Presence of Older Version Queriers						
	Interoperation With Older Versions of IGMP When in IGMPv1 mode, routers MUST send Periodic Queries with a Max Resp Code of 0						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other



	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-IGMPV3-10.18 MUST	RFC 3376, IGMP Version 3, s7.3.1 p37 In the Presence of Older Version Queriers						
	Interoperation With Older Versions of IGMP When in IGMPv1 mode, routers MUST ignore Leave Group messages						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-10.19 MUST	RFC 3376, IGMP Version 3, s7.3.1 p37 In the Presence of Older Version Queriers						
	Interoperation With Older Versions of IGMP When in IGMPv2 mode, routers MUST send Periodic Queries truncated at the Group Address field (i.e., 8 bytes long)						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.22 MUST	RFC 3376, IGMP Version 3, s7.3.2 p38 In the Presence of Older Version Group Members						
	Interoperation With Older Versions of IGMP When Group Compatibility Mode is IGMPv2, a router internally translates the IGMPv2 Report messages for that group to their IGMPv3 equivalents as IS_EX({ })						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.23 MUST	RFC 3376, IGMP Version 3, s7.3.2 p38 In the Presence of Older Version Group Members						
	Interoperation With Older Versions of IGMP When Group Compatibility Mode is IGMPv2, a router internally translates the IGMPv2 Leave messages for that group to their IGMPv3 equivalents as TO_IN({ })						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.24 MUST	RFC 3376, IGMP Version 3, s7.3.2 p38 In the Presence of Older Version Group Members						
	Interoperation With Older Versions of IGMP When Group Compatibility Mode is IGMPv1, a router internally translates the IGMPv1 Report messages for that group to their IGMPv3 equivalents as IS_EX({ })						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-10.25 MUST	RFC 3376, IGMP Version 3, s7.3.2 p38 In the Presence of Older Version Group Members						
	Interoperation With Older Versions of IGMP When Group Compatibility Mode is IGMPv1, IGMPv2 Leave messages and IGMPv3 TO_IN() messages are also ignored						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.4 MAY	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 and MLDv2 Reports						
	RFC 4604 A router SHOULD ignore a group record of either of the following types if it refers to an SSM destination address: - MODE_IS_EXCLUDE Current-State Record - CHANGE_TO_EXCLUDE_MODE Filter-Mode-Change Record A router MAY choose to log an error in either case. Note - Here we check if error is logged for MODE_IS_EXCLUDE for SSM Address						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.5 MAY	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 and MLDv2 Reports						
	RFC 4604 A router SHOULD ignore a group record of either of the following types if it refers to an SSM destination address: - MODE_IS_EXCLUDE Current-State Record - CHANGE_TO_EXCLUDE_MODE Filter-Mode-Change Record A router MAY choose to log an error in either case. Note - Here we check if error is logged for CHANGE_TO_EXCLUDE_MODE for SSM Address						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.6 MUST	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 and MLDv2 Reports						
	RFC 4604 A router SHOULD ignore a group record of either of the following types if it refers to an SSM destination address: - MODE_IS_EXCLUDE Current-State Record - CHANGE_TO_EXCLUDE_MODE Filter-Mode-Change Record A router MAY choose to log an error in either case. It MUST process any other group records within the same report. Note - Here we check if CHANGE_TO_EXCLUDE_MODE record is ignored and other record is processed						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IGMPV3-12.7 MUST	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.1p7 IGMPv3 and MLDv2 Reports						
	RFC 4604 A router SHOULD ignore a group record of either of the following types if it refers to an SSM destination address: - MODE_IS_EXCLUDE Current-State Record - CHANGE_TO_EXCLUDE_MODE Filter-Mode-Change Record A router MAY choose to log an error in either case. It MUST process any other group records within the same report. Note - Here we check if MODE_IS_EXCLUDE record is ignored and other record is processed						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: FAIL	Debian 12: FAIL	Debian 12: FAIL
ANVL-IGMPV3-12.8 SHOULD	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.7p8 IGMPv2 Leave and MLDv1 Done						
	RFC 4604 An IGMPv2 Leave or MLDv1 Done message may be sent by a non-SSM-aware host. A router SHOULD ignore all such messages in the source-specific address range and MAY log an error Note - Here we check if IGMPv2 Leave message is ignored by the router						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other

	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-IGMPV3-12.9 SHOULD	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.7p8 IGMPv2 Leave and MLDv1 Done						
	RFC 4604 An IGMPv2 Leave or MLDv1 Done message may be sent by a non-SSM-aware host. A router SHOULD ignore all such messages in the source-specific address range and MAY log an error Note - Here we check if an error is logged on receiving IGMPv2 Leave message						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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: other	Debian 12: other	Debian 12: other
ANVL-IGMPV3-12.10 MAY	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s2.2.2p4 IGMPv3 and MLDv2 Reports						
	RFC 4604 A report may include both SSM destination addresses and non-source-specific, i.e., Any-Source Multicast (ASM) destination addresses, in the same message.						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.11 SHOULD	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.5p8 IGMPv1/v2 and MLDv1 Reports						
	RFC 4604 An IGMPv1/v2 or MLDv1 report for an address in the source-specific range could be sent by a non-SSM-aware host. A router SHOULD ignore all such reports and specifically SHOULD NOT use them to establish IP forwarding state. Note: Here we check the router should not forward the packet for IGMPv1						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.12 SHOULD	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.5p8 IGMPv1/v2 and MLDv1 Reports						
	RFC 4604 An IGMPv1/v2 or MLDv1 report for an address in the source-specific range could be sent by a non-SSM-aware host. A router SHOULD ignore all such reports and specifically SHOULD NOT use them to establish IP forwarding state. Note: Here we check the router should log an error IGMPv1						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.13 SHOULD	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.5p8 IGMPv1/v2 and MLDv1 Reports						
	RFC 4604 An IGMPv1/v2 or MLDv1 report for an address in the source-specific range could be sent by a non-SSM-aware host. A router SHOULD ignore all such reports and specifically SHOULD NOT use them to establish IP forwarding state. Note: Here we check the router should not forward the packet for IGMPv2						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.14 MUST	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.5p8 IGMPv1/v2 and MLDv1 Reports						
	RFC 4604 An IGMPv1/v2 or MLDv1 report for an address in the source-specific range could be sent by a non-SSM-aware host. A router SHOULD ignore all such reports and specifically SHOULD NOT use them to establish IP forwarding state. Note: Here we check the router should log an error IGMPv2						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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-IGMPV3-12.15 MUST	RFC 4604, Using IGMPv3 and MLDv2 for SSM, s3.5p8 IGMPv3 and MLDv2 Group-and-Source-Specific Queries						
	RFC 4604 SFGMP Group-and-Source-Specific Queries are used when a receiver has indicated that it is no longer interested in receiving traffic from a particular (S,G) pair to determine if there are any remaining directly-attached hosts with interest in that (S,G) pair. Group-and-Source-Specific Queries are used within the source-specific address range when a router receives a BLOCK_OLD_SOURCES Record for one or more source-specific groups. These queries are sent normally as per [IGMPv3, MLDv2].						
	Ubuntu 18.04: untested	Ubuntu 18.04: other	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	