RFC Compliance Test Report

IGMPv2 Results

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
Type	FRR	FRR	FRR	FRR				
Commit ID	ge1b0c9399	a87315e	gff905c6c3	9931db7				
Commit Date	2020-02-06	2020-06-14	2021-05-27	2021-07-29				
IGMP-1.1 **MUST**	DUT supporting IGMP host							
	`Quick test to verify that DUT supports an IGMP host behavior i.e. it sends IGMP reports in response to an IGMP general query`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-1.2 **MUST**	DUT supporting IGMP router							
	`Quick test to verify that DUT supports an IGMP router behavior i.e. it sends an IGMP general query at startup`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.1 **SHOULD**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`Upon starting the router should multicast a general query`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.10 **MUST**	RFC 2236, IGMP Version 2, s3 p4 and p5 Protocol Description							
	`If a host receives another host's report while its delay timer is running it stops its timer and does not multicast a report`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-2.11 **MUST**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`If a delay timer is already running, it is reset only if the specified MAX_RESPONSE_TIME is less the remaining value of the running timer.`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.2 **SHOULD**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`On startup, a router SHOULD Multicast [Startup Query Count] General Queries spaced closely together [Startup Query Interval] (This test is for number of startup General Queries)`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.3 **SHOULD**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`On startup, a router SHOULD Multicast [Startup Query Count] General Queries spaced closely together [Startup Query Interval] (This test is for the interval between startup General Queries)`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.4 **MUST**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`Routers periodically [QUERY_INTERVAL] multicast a general query on each attached network for which this router is the querier`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-2.5	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
MUST	`If a multicast router hears a query message from a router with lower IP address, it MUST become a non-querier for that network`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.6	NEGATIVE: RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
MUST	`If a multicast router hears a query message from a router with lower IP address, it MUST become a non-querier for that network`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.7	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
MUST	`After multicasting Startup Query Count general queries, a router multicasts a general query after QUERY_INTERVAL`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-2.8	RFC 2236, IGMP Version 2, s3 p4 Protocol Description RFC 2236, IGMP Version 2, s2 p2 Introduction							
MUST	`A general query is addressed to ALL-SYSTEMS, has a Group Address field of 0 and a Max Response Time of [Query Response Interval].`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-2.9 **MUST**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`When a host receives a g.q, it sets delay timers for each group of which it is a member on the interface from which it received the query`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.1 **MUST**	RFC 2236, IGMP Version 2, s3 p4 Protocol Description							
	`If the host receives another host's report while a delay timer is running, it does not multicast a report only for that group`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.10 **MUST**	RFC 2236, IGMP Version 2, s3 p6 Protocol Description							
	`Any querier to non-querier transition is ignored during the period of Last Member Query Interval * Last Member Query Count`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.11 **SHOULD**	RFC 2236, IGMP Version 2, s3 p6 Protocol Description							
	`Queriers SHOULD ignore Leave Group messages for which there are no group members on the reception interface`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-3.2 **MUST**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`When a router receives a report, it adds the group being reported to the list of multicast group memberships on the network.`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.3 **MUST**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`The router stops forwarding remotely-originated multicasts for a group after GROUP_MEMBERSHIP_INTERVAL`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.4 **SHOULD**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`When a host joins a multicast group it should transmit an an unsolicited version 2 membership report for that group, in case it is the first member of that group on the network.`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.5 **SHOULD**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`When a host joins more then 1 multicast group it should transmit an unsolicited version 2 membership report for each group`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-3.6 **MUST**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`A simple way to cover the possibility of initial report being lost or damaged it is recommended that it be repeated after short delays [Unsolicited Report Interval]. A simple way to accomplish this is to send the initial Version 2 Membership Report and then act as if a group specific query was received`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.7 **MUST**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`When a host leaves a multicast group, if it was the last host to send a report for that group, it sends a Leave message`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.8 **SHOULD**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`Routers SHOULD accept a leave group message being addressed to the group being left`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-3.9 **MUST**	RFC 2236, IGMP Version 2, s3 p5 Protocol Description							
	`A querier multicasts [Last Member Query Count] Group-Specific Queries every [LAST_MEMBER_QUERY_INTERVAL] upon receiving a Leave message`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-4.1 **MUST**	RFC 2236, IGMP Version 2, s4 p6 Compatibility with IGMPv1 routers							
	`An IGMP v1 router will multicast General Queries with Max Response Time set to 0. This MUST be interpreted as a value of 100 (10 seconds)`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-4.2 **MUST**	RFC 2236, IGMP Version 2, s4 p5 Compatibility with IGMPv1 routers							
	`When in IGMP v1 mode, routers MUST multicast periodic queries with a Max Response Time of 0`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-4.3 **MUST**	RFC 2236, IGMP Version 2, s4 p6 Compatibility with IGMPv1 routers							
	`When in IGMP v1 mode, routers MUST ignore Leave Group messages`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-4.4 **MUST**	RFC 2236, IGMP Version 2, s5 p7 Compatibility with IGMPv1 hosts							
	`The host MUST allow its Membership Report to be suppressed by either a Version 1 Membership Report or a Version 2 Membership Report`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-4.5 **MUST**	RFC 2236, IGMP Version 2, s5 p7 Compatibility with IGMPv1 hosts							
	`If an IGMP v2 router hears a v1 report it must set up a timer equal to GROUP_MEMBERSHIP_INTERVAL`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.1 **SHOULD**	RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`Only 1 process on 1 interface on a host should send a report`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.10 **SHOULD**	NEGATIVE: RFC 2236, IGMP Version 2, s6 p9 Host State Diagram							
	`The Leave message is sent to ALL-ROUTERS`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.11 **MUST**	RFC 2236, IGMP Version 2, s6 p9 Host State Diagram							
	`If the flag saying we were the last host to report is cleared, the send leave action is skipped`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-5.2 **MUST**	RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`Leave Group does not occur when the DUT is not a member of any group`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.3 **MUST**	RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`To be valid the query message MUST have the right checksum and must be 8 octets long`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.4 **MUST**	NEGATIVE: RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`To be valid the query message MUST have the right checksum and must be 8 octets long`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.5 **MUST**	RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`A general query applies to all memberships on the interface from which the query is received`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-5.6 **MUST**	NEGATIVE: RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`To be valid a report must have a valid checksum and any greater than 8 octets long must be accepted for future compatability`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.7 **MUST**	NEGATIVE: RFC 2236, IGMP Version 2, s6 p8 Host State Diagram							
	`A bad IGMP report is discarded and the receiving host does not suppress its own report`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.8 **SHOULD**	RFC 2236, IGMP Version 2, s6 p9 Host State Diagram							
	`If the querier is running IGMP v1, 'send leave' SHOULD be skipped`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-5.9 **MUST**	RFC 2236, IGMP Version 2, s6 p9 Host State Diagram							
	`The Leave message is sent to ALL-ROUTERS`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-6.1 **MUST**	NEGATIVE: RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`To be valid, a leave message must have correct IGMP checksum and must be 8 octets long`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.2 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`To be valid, a leave message must have correct IGMP checksum and must be 8 octets long`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.3 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`The DUT retransmits the Group-Specific query when the retransmit timer expires. Its value is LAST_MEMBER_QUERY_INTERVAL`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.4 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`The Group-Specific query has a Max Response Time of [Last Member Query Interval]`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-6.5 **MUST**	RFC 2236, IGMP Version 2, s3 page 5 Protocol Description							
	`There is no querier-non-querier transition when a group-specific query has been sent out`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.6 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`10 IGMP v2 hosts join and leave 2 groups on 2 different interfaces DUT is an IGMP v2 router (Tests an IGMP router behavior according to router state machine on its multiple interfaces)`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.7 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							
	`10 IGMP v2 hosts join and leave a group, DUT is an IGMP v2 router (Tests an IGMP router behavior according to router state machine on its one interface)`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				
IGMP-6.8 **MUST**	RFC 2236, IGMP Version 2, s6 page 9 Host State Diagram							
	`10 IGMP v2 hosts join and leave a group, DUT is an IGMP v2 host (Tests an IGMP host behavior according to host state machine`							
	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				

	Release 7.2.1	Release 7.3	Release 7.5.1	Release 8.0	Release x.x.x	Release x.x.x	Release x.x.x	Release x.x.x
IGMP-6.9 **MUST**	RFC 2236, IGMP Version 2, s7 page 13 Router State Diagram							

	`10 IGMP v2 hosts join and leave a group, DUT is an IGMP v2 router.`
	`10 remotely originated multicast packets are sent to the DUT`
	`(Tests an IGMP router behavior including its multicast packet forwarding capability according to router state machine`							

	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested	Free BSD 10.3 untested				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested	Free BSD 12.0 untested				