

CORE CONFORMANCE TEST REPORT

DEVICE UNDER TEST AND TESTPLAN INFORMATION

DEVICE A	
Vendor Name	Canonical Inc.
Product Name	Ubuntu
Software Version	24.04.1
Product Category	Router
Test Selection Table Version	Core_v1.4_C
Test Specification	IPv6 Ready Core Protocols Test Specification, Revision 5.1.4
Tool Used	Self_Test_5-0-9
CNLABS Product ID	250101

TEST RESULTS

CORE CONFORMANCE TEST RESULTS		
Reference	Test Number	Result
RFC 8200	v6LC.1.1.1 Version Field	Pass
RFC 8200	v6LC.1.1.2 Traffic Class Non-Zero - End Node	Pass
RFC 8200	v6LC.1.1.3 Traffic Class Non-Zero - Intermediate Node	Pass
RFC 8200	v6LC.1.1.4 Flow Label Non-Zero (A)	Pass
RFC 8200	v6LC.1.1.4 Flow Label Non-Zero (B)	Pass
RFC 8200	v6LC.1.1.5 Payload Length (A)(B)(C)	Pass
RFC 8200	v6LC.1.1.6 No Next Header After IPv6 Header (A)(B)	Pass
RFC 8200	v6LC.1.1.8 Hop Limit Zero - End Node	Pass
RFC 8200	v6LC.1.1.9 Hop Limit Decrement - Intermediate Node	Pass
RFC 7608	v6LC.1.1.11 IP Forwarding – Routing prefixes greater than 64 bits (A)(B)(C)	Pass
RFC 8200	v6LC.1.2.2 No Next Header after Extension Header (A)	Pass
RFC 8200	v6LC.1.2.2 No Next Header after Extension Header (B)	Pass
RFC 8200	v6LC.1.2.4 Extension Header Processing Order (A)(B)(C)(D)	Pass
RFC 8200	v6LC.1.2.5 Option Processing Order (A)(B)(C)	Pass
RFC 8200	v6LC.1.2.8 Options Processing, Destination Options Header (A)(B)(C)(D)(E)(F)(G)(H)	Pass
RFC 8200	v6LC.1.2.9: Unrecognized Routing Type - End Node (A)(B)	Pass
RFC 8200	v6LC.1.2.10: Unrecognized Routing Type - Intermediate Node (A)(B)	Pass
RFC 8200	v6LC.1.3.1 Fragment Reassembly (A)(B)(C)(D)(E)(F) Note: Time Exceeded Message Generation is not Required.	Pass
RFC 8200	v6LC.1.3.2 Reassembly Time Exceeded (A)(B)(C)(D)(E) Note: Time Exceeded Message Generation is not Required.	Pass
RFC 8200	v6LC.1.3.4 Atomic Fragments (A)(B)	Pass
RFC 8200	V6LC.1.3.5 Overlapping Fragments (A)(B)(D)(E)(F)(H)	Pass
RFC 8200	V6LC.1.3.6 First Fragment Doesn't Contain All Headers (A)(B)(C)(D) Note: Parameter Problem Message Generation is not Required.	Pass
RFC 4861	v6LC.2.1.1 On-Link Determination (A)(B)(C)	Pass
RFC 4861	v6LC.2.1.2 Resolution Wait Queue (A)(B)	Pass
RFC 4861	v6LC.2.1.5 Neighbor Solicitation Origination, Address Resolution (A)(B)	Pass

RFC 4861	v6LC.2.1.6 Neighbor Solicitation Origination, Reachability Confirmation (A)(B)(C)(D)	Pass
RFC 4861	v6LC.2.1.7 Invalid Neighbor Solicitation Handling (A)(B)(C)(D)(E)(F)(G)(H)	Pass
RFC 4861	v6LC.2.1.8 Neighbor Solicitation Processing, No NCE (A)(B)(C)	Pass
RFC 4861	v6LC.2.1.9 Neighbor Solicitation Processing, NCE State INCOMPLETE (A)(B)(C)	Pass
RFC 4861	v6LC.2.1.10 Neighbor Solicitation Processing, NCE State REACHABLE (A)(B)(C)(D)	Pass
RFC 4861	v6LC.2.1.11 Neighbor Solicitation Processing, NCE State STALE (A)(B)(C)(D)	Pass
RFC 4861	v6LC.2.1.12 Neighbor Solicitation Processing, NCE State PROBE (A)(B)(C)(D)	Pass
RFC 4861	v6LC.2.1.15 Invalid Neighbor Advertisement Handling (A)(B)(C)(D)(E)(F)(G)	Pass
RFC 4861	v6LC.2.1.16 Neighbor Advertisement Processing, No NCE (A)(B)(C)(D)(E)(F)(G)(H)	Pass
RFC 4861	v6LC.2.1.17 Neighbor Advertisement Processing, NCE State INCOMPLETE (A)(B)(C)(D)(E)	Pass
RFC 4861	v6LC.2.1.18 Neighbor Advertisement Processing, NCE State REACHABLE (A)(B)(C)(D)(E)(F)(G)(H)(I)(J)(K)(L)(M)(N)(O)(P)(Q)(R)	Pass
RFC 4861	v6LC.2.1.19 Neighbor Advertisement Processing, NCE State STALE (A)(B)(C)(D)(E)(F)(G)(H)(I)(J)(K)(L)(M)(N)(O)(P)(Q)(R)	Pass
RFC 4861	v6LC.2.1.20 Neighbor Advertisement Processing, NCE State PROBE (A)(B)(C)(D)(E)(F)(G)(H)(I)(J)(K)(L)(M)(N)(O)(P)(Q)(R)	Pass
RFC 6980	V6LC.2.1.22 Atomic Fragments in Neighbor Solicitations and Neighbor Advertisements (A)(B)	Pass
RFC 6980	V6LC.2.1.23 Fragment Header in Neighbor Solicitations and Neighbor Advertisements (A)(B)	Pass
RFC 4861	v6LC.2.2.4 Router Ignores Invalid Router Solicitations (A)(B)(C)(D)(E)(F)	Pass
RFC 4861	v6LC.2.2.5 Router Sends Valid Router Advertisement	Pass
RFC 4861	v6LC.2.2.6 Router Does Not Send Router Advertisements on Non-advertising Interface (A)(B)	Pass
RFC 4861	v6LC.2.2.7 Sending Unsolicited Router Advertisements (C)(D)(E)(F)	Pass
RFC 4861	v6LC.2.2.8 Ceasing to Be An Advertising Interface	Pass
RFC 4861	v6LC.2.2.9 Processing Router Solicitations (A)(B)	Pass
RFC 4861	v6LC.2.2.10 Router Solicitation Processing, Neighbor Cache (A)(B)(C)(D)(E)(F)(G)(H)(I)	Pass
RFC 4861	v6LC.2.2.13 Router Advertisement Processing, Cur Hop Limit (A)	Pass
RFC 4861	v6LC.2.2.15 Router Advertisement Processing, Reachable Time (B)	Pass
RFC 4191	v6LC.2.2.20 Sending Router Advertisement with Route Preference (A)(B)(C)	Pass
RFC 4191	v6LC.2.2.21 Transmitting Route Information Option (A)(B)(C)(D)(E)	Pass
RFC 6980	v6LC.2.2.26: Atomic Fragments in Router Solicitations and Router Advertisement (B)	Pass
RFC 6980	v6LC.2.2.27: Fragments in Router Solicitation and Router Advertisements (B)	Pass
RFC 4861	v6LC.2.3.16 Redirect – Transmit (A)(B)(C)(D)	Pass
RFC 4861	v6LC.2.3.17 Redirect - Receive	Pass
RFC 4862	v6LC.3.1.1 Address Autoconfiguration and Duplicate Address Detection	Pass
RFC 4862	v6LC.3.1.2 Receiving DAD Neighbor Solicitations and Advertisements (A)(B)(C)(D)	Pass
RFC 4862	v6LC.3.1.3 Validation of DAD Neighbor Solicitations (A)(B)(C)(D)(E)(F)(G)(H)(I)(J)	Pass

RFC 4862	v6LC.3.1.4 Validation of DAD Neighbor Advertisements (A)(B)(C)(D)(E)(F)(G)(H)(I)	Pass
RFC 4862	v6LC.3.1.5 Receiving Neighbor Solicitations for Address Resolution (A)(B)	Pass
RFC 8201	v6LC.4.1.1 Confirm Plug (A)(B)(C)	Pass
RFC 8201	v6LC.4.1.3 Non-zero ICMPv6 Code	Pass
RFC 8201	v6LC.4.1.4 Reduce PMTU On-link (A)(B)	Pass
RFC 8201	v6LC.4.1.5 Reduce PMTU Off-link	Pass
RFC 8201	v6LC.4.1.6 Receiving MTU Below IPv6 MTU (A)(B)	Pass
RFC 8201	v6LC.4.1.7 Increase Estimate (A)(B)	Pass
RFC 8201	v6LC.4.1.9 Checking for Increase in PMTU	Pass
RFC 4443	v6LC.5.1.2 Replying to Echo Requests (A)(B)	Pass
RFC 4443	v6LC.5.1.4 Packet Too Big Message Generation (A)(B)	Part A-Pass; Part B-Fail
RFC 4443	v6LC.5.1.5 Hop Limit Exceeded (Time Exceeded Generation) (A)(B)	Pass
RFC 4443	v6LC.5.1.6 Erroneous Header Field (Parameter Problem Generation)	Pass
RFC 4443	v6LC.5.1.7 Unrecognized Next Header (Parameter Problem Generation)	Pass
RFC 4443	v6LC.5.1.8 Unknown Informational Message Type	Pass
RFC 4443	v6LC.5.1.9 Error Condition With ICMPv6 Error Message (A)(B)(C)(D)(E)(F)	Pass
RFC 4443	v6LC.5.1.10 Error Condition With Multicast Destination (A)(B)	Pass
RFC 4443	v6LC.5.1.11 Error Condition With Non-Unique Source - Unspecified (A)(B)(C)(D)	Pass
RFC 4443	v6LC.5.1.12 Error Condition With Non-Unique Source - Multicast (A)(B)(C)(D)	Pass
RFC 4443	v6LC.5.1.13 Error Condition with Non-Unique Source - Anycast (A)(B)(C)(D)	Pass

NOTE:

DUT does not support to configure Multicast routing. So, Core Conformance Test v6LC.5.1.4 Part B is Failed.