National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CRITERION NETWORK LABS, CRITERION NETWORKS INDIA PRIVATE LIMITED, UNIT#3 GROUND FLOOR, EXPLORER BUILDING, WHITEFIELD, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS- IT EQUIPMENT	Mobile Handset or IPv6 Host	Test v6LC.1.1.1Test v6LC 1.1.2 Test v6LC 1.1.4 Test v6LC 1.1.5 Part-A,B Test v6LC 1.1.6 Part-A Test v6LC 1.1.7 Part-A,B Test v6LC 1.1.8 Test v6LC 1.2.1 Test v6LC 1.2.2 Part-A Test v6LC 1.2.3 Part- A,BTest v6LC.1.2.4 Part-A,B,C,D Test v6LC.1.2.5 Part- A,B,C Test v6LC.1.2.6 Part-A, B, C, D, E, F, G, H Test v6LC.1.2.8 Part-A, B, C, D, E, F, G, H Test v6LC.1.2.9 Part-A, B Test v6LC.1.2.10 Part-A, B	RFC 2460/8200: IPv6 Ready Core Protocols Test Specification Revision 5.0.0
2	ELECTRONICS- IT EQUIPMENT	Switch	Spanning Tree Protocol Tests (Root Bridge election and Port Blocking)	Annexure P11 in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
3	ELECTRONICS- IT EQUIPMENT	IPV6 core protocols	Test V6LC 5.1.2 Part -A,B,C,D,G Test V6LC 5.1.8 Test V6LC 5.1.10 Part- A,B Test v6LC5.1.11 Part A,B,C,D Test v6LC5.1.12 Part A,B,C,D Test v6LC5.1.13 Part A,B,C,D	ICMPv6 (RFC 4443), IPV6 - Revision 4.0.7
4	ELECTRONICS- IT EQUIPMENT	IPv6 core protocols	V6LC.2.1.7 Part -D Test V6LC.2.1.15 Part B Test V6LC.2.2.4 Part -A Test V6LC.2.2.5 Test V6LC.2.2.6 Part -A, B ,Self_Test_5.0.1 Test V6LC2.1.1- 2.3.17 (Part A - Part R)	IPV6 -Revision 4.0.7, IPV6 (RFC 4861)
5	ELECTRONICS- IT EQUIPMENT	Switch	Technical Requirements Clause 2.3.1 – Mac learning & Packet forwarding	Test No. 2, Annexure-I of TEC/ER/IT/LSW-001/01/AUG 2018,Test No 2-4 of Annexure-I of TEC/LR/IT/LSW-001/01/AUG2018
6	ELECTRONICS- IT EQUIPMENT	All products with 100 Gigabit Optical Ethernet Interface	Average Launch power for 100 GE Opt interface	IEEE 802.3ba Cl. 86 88
7	ELECTRONICS- IT EQUIPMENT	All products with 100 Gigabit Optical Ethernet Interface	Receiver Sensitivity for 100 GE Opt interface	IEEE 802.3ba Cl. 86 88
8	ELECTRONICS- IT EQUIPMENT	All products with 100 Gigabit Optical Ethernet Interface	Wavelength for 100 GE Opt interface	IEEE 802.3ba Cl. 86 88

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9	ELECTRONICS- IT EQUIPMENT	All products with 40 Gigabit Optical Ethernet Interface	Average Launch power for 40 GE Opt interface	IEEE 802.3ba Cl. 86 87
10	ELECTRONICS- IT EQUIPMENT	All products with 40 Gigabit Optical Ethernet Interface	Receiver Sensitivity for 40 GE Opt Interface	IEEE 802.3ba Cl. 86 87
11	ELECTRONICS- IT EQUIPMENT	All products with 40 Gigabit Optical Ethernet Interface	Wavelength for 40 GE Opt interface	IEEE 802.3ba Cl. 86 87
12	ELECTRONICS- IT EQUIPMENT	Electronic Products with IPv4 support	IPV4 Parameters SET-A, SET-B and SET-C	RFC 791
13	ELECTRONICS- IT EQUIPMENT	Electronic Products with TCP support	Header Format and Sequence Numbers	RFC 793
14	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	IDS Functional Tests - Test No.23 and 24	Annexure P11 as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
15	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	IPS Functional Tests - Test No. 25 and 26	Annexure P11 as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
16	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	IPSec Functional Test	Annexure P11 as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
17	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	NAT Functional Tests - Test No. 20 and 21	Annexure P11 as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
18	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	Policy Functional Test	Annexure P11as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
19	ELECTRONICS- IT EQUIPMENT	IP Security Equipment	UTM URL, Content & Anti-Virus Filtering Functional Tests - Test No. 27, 28 and 29	Annexure P11 as per TEC Essential Requirements ER No.: TEC34731911 for IP Security Equipment
20	ELECTRONICS- IT EQUIPMENT	IPv6 core protocols	Test V6LC.1.2.4 Part A,B,C,D Test V6LC.1.2.5 Part A,B,C Test V6LC.1.2.6 Part D,E,F,G,H Test V6LC.1.2.7 Part D,E,F,G,H Test V6LC.1.2.8 Part D,E,F,G,H Test V6LC.1.2.9 Part -A,B ,Self_Test_5.0.1 Test V6LC1.1.1 -1.3.4 (Part A - Part K)	IPV6 Specification (RFC2460)

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21	ELECTRONICS- IT EQUIPMENT	IPv6 Core protocols	Test V6LC 3.1.2 Part -B,D Test V6LC 3.1.3 Part -B,C,G,I Test V6LC 3.1.4 Part -B ,Self_Test_5.0.1 Test V6LC3.1.1- 3.2.1 (Part A - Part J)	IPv6-Revision 4.0.7 IPv6 ,(RFC 4862)
22	ELECTRONICS- IT EQUIPMENT	IPv6 Core Protocols (Ready test specification core protocols-)	Test V6LC 4.1.6 Part -A, B	IPV6Revision 4.0.7 Path, IPV6 (RFC 1981) ,Self_Test_5.0.1 Test V6LC4.1.1- 4.1.11 (Part A - Part C)
23	ELECTRONICS- IT EQUIPMENT	IPv6 Host & Router	Functional	NIST SP 500-281Br1 - A2
24	ELECTRONICS- IT EQUIPMENT	IPv6 Host & Router	Interoperability	NIST SP 500-281Br1 - I1-Core, I2-SLAAC, I5-Addr-Arch
25	ELECTRONICS- IT EQUIPMENT	IPv6 Host & Router	Conformance	NIST SP 500-281Br1 - F1-Core, F2-SLAAC, F5-Addr-Arch
26	ELECTRONICS- IT EQUIPMENT	Mobile Handset	Mobile device - Non-Zero IMEI/MEID/ESN	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
27	ELECTRONICS- IT EQUIPMENT	Mobile Handset	Mobile Device Indian Language Support	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
28	ELECTRONICS- IT EQUIPMENT	Mobile Handset	Mobile Emergency Support - Call on 112	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
29	ELECTRONICS- IT EQUIPMENT	Mobile Handset	SAR Display for Mobile Handset	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
30	ELECTRONICS- IT EQUIPMENT	Mobile Handset - Smart Phone	Mobile Emergency Support - Panic Button	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
31	ELECTRONICS- IT EQUIPMENT	Mobile handset -Feature Phone	Mobile Emergency Support - Panic Button	Annexure M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
32	ELECTRONICS- IT EQUIPMENT	Mobile Handset -Smart Phone	Mobile Emergency Support - GPS Location	Annexure-M in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
33	ELECTRONICS- IT EQUIPMENT	Product with UDP support	UDP Format, User Terminology, Sequence numbers	RFC 768
34	ELECTRONICS- IT EQUIPMENT	Products supporting PPPoE functionality	PPPoE	RFC2516 as per TEC Essential Requirements ER No.: TEC37681911

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35	ELECTRONICS- IT EQUIPMENT	Products supporting Radius functionality	Radius	RFC2865 as per TEC Essential Requirements ER No.: TEC37681911
36	ELECTRONICS- IT EQUIPMENT	Products with 1 Gigabit Optical Ethernet Interface	Average Launch power for 1 GE Opt interface	IEEE 802.3z Cl. 38
37	ELECTRONICS- IT EQUIPMENT	Products with 1 Gigabit Optical Ethernet Interface	Receiver Sensitivity for 1 GE Opt Interface	IEEE 802.3z Cl. 38
38	ELECTRONICS- IT EQUIPMENT	Products with 1 Gigabit Optical Ethernet Interface	Wavelength for 1 GE Opt interface	IEEE 802.3z Cl. 38
39	ELECTRONICS- IT EQUIPMENT	Products with 10 Gigabit Optical Ethernet interface	Average Launch power for 10 GE Opt interface	IEEE 802.3ae Cl. 52
40	ELECTRONICS- IT EQUIPMENT	Products with 10 Gigabit Optical Ethernet interface	Receiver Sensitivity for 10GE Interface	IEEE 802.3ae Cl. 52
41	ELECTRONICS- IT EQUIPMENT	Products with 10 Gigabit Optical Ethernet interface	Wavelength for 10GE Interface	IEEE 802.3ae Cl. 52
42	ELECTRONICS- IT EQUIPMENT	Products with Dual IP layer operation: Address Configuration support	Dual IP Layer Operation: Address	RFC 4213
43	ELECTRONICS- IT EQUIPMENT	Products with Dual IP layer operation: DNS	Dual IP Layer operation:DNS	RFC 4213
44	ELECTRONICS- IT EQUIPMENT	Products with Dual IP layer operation: Tunnelling	Dual IP layer operation: Tunneling	RFC 4213
45	ELECTRONICS- IT EQUIPMENT	Products with SNMP support	Manageability SNMP V2 and V3	RFC 3410 and RFC 3416 as per TEC Essential Requirements ER No.: TEC37681911
46	ELECTRONICS- IT EQUIPMENT	Router	10/100 Ethernet interface Link Speed and Auto negotiation Test FE	IEEE 802.3, Annex-H as per TEC Essential Requirements ER No.: TEC37681911
47	ELECTRONICS- IT EQUIPMENT	Router	10/100/1000 Ethernet interface Link Speed and Auto negotiation Test GE	IEEE 802.3, Annex-H as per TEC Essential Requirements ER No.: TEC37681911
48	ELECTRONICS- IT EQUIPMENT	Router	Conformance Testing of BGP for IPv6	BGP for IPv6: RFC 2545
49	ELECTRONICS- IT EQUIPMENT	Router	Conformance Testing of BGP4 and MBGP	BGP4:RFC4271, MBGP4:RFC4760
50	ELECTRONICS- IT EQUIPMENT	Router	Conformance Testing of LDP	RFC 5036

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51	ELECTRONICS- IT EQUIPMENT	Router	Conformance tests for OSPF v3 of ANNEXURE I of TEC/ER/IT/TCP-01/01/AUG2018, Section 3.1.3 to 3.4.3.1 of RFC 2740 -OSPFv3, as mentioned in Annexure of TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.2(iii) Routing protocols – OSPF for IPv6 per RFC 2740
52	ELECTRONICS- IT EQUIPMENT	Router	Conformance Tests OSPFv2 , Annexure I TEC/ER/IT/TCP-03/01/AUG 2018 , Sections 8.1 to 13.5 of RFC 2328– OSPFv2, as mentioned in Annexure 1 of TEC/ER/IT/TCP- 03/01/AUG 2018	Routing Protocols– OSPF as per RFC 2328,Clause 2.1.2 (iii)
53	ELECTRONICS- IT EQUIPMENT	Router	Dynamic Routing	Annex-P11 as per TEC Essential Requirements ER No.: TEC37681911
54	ELECTRONICS- IT EQUIPMENT	Router	IPV4 Parameters Set-D	RFC 791 as prescribed in TEC Essential Requirements ER No.: TEC37681911
55	ELECTRONICS- IT EQUIPMENT	Router	Static Routing	Annex-P11 as per TEC Essential Requirements ER No.: TEC37681911
56	ELECTRONICS- IT EQUIPMENT	Router	TCP Parameters	RFC 793 as prescribed in TEC Essential Requirements ER No.: TEC37681911
57	ELECTRONICS- IT EQUIPMENT	Router	Test No 1, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018, Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.3(ii) Interfaces -10/100/1000 Base tx Ethernet Electrical as per 802.3
58	ELECTRONICS- IT EQUIPMENT	Router	Test No 1, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018, Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.3(i) Interfaces -10/100 Base tx Ethernet Electrical as per 802.3
59	ELECTRONICS- IT EQUIPMENT	Router	Test No 2, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018 ,Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.1(i) Network protocols – IP version4
60	ELECTRONICS- IT EQUIPMENT	Router	Test No 5, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018, Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Technical Requirements Clause 2.1.2(ii) Routing protocols – Dynamic routing

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61	ELECTRONICS- IT EQUIPMENT	Router	Test No 6, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018, Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.2(i) Routing protocols – Static routing
62	ELECTRONICS- IT EQUIPMENT	Router	Test No 7, of ANNEXUE II of TEC/ER/IT/TCP-01/01/AUG2018, Test No 1-7 of Annexure II TEC/ER/IT/TCP-01/01/AUG2018	Clause 2.1.1(iii) Network protocols – TCP as per IETF RFC793
63	ELECTRONICS- IT EQUIPMENT	Router	Test No. 3 and 4, Annexure-II of TEC/ER/IT/TCP-01/01/AUG 2018,Test No. 1 to 7, Annexure II of TEC/ER/IT/TCP- 01/01/AUG 2018	Clause 2.3 Manageability –SNMP ver2 or ver3 as per RFC 3410, RFC 3416
64	ELECTRONICS- IT EQUIPMENT	Switch	Clause 2.3.2 – Spanning Tree protocol as per IEEE 802.1d,Test No. 2 to 4 of Annexure-I of TEC/ER/IT/LSW-001/01/AUG2018	Test No. 3 and 4, Annexure-I of TEC/ER/IT/LSW- 001/01
65	ELECTRONICS- IT EQUIPMENT	Switch	Mac learning and Packet forwarding	Annexure P11 in ANNEXURES TO ERs No.: TEC/SD/DD/TCP-222/2.3/Nov19
66	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Infiniband switch	Subnet Manager	Clause 1.1.11 of TEC 30012304:2023, (Annex-P11 Appendix-II Test No. 44)
67	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	IP Multimedia Conferencing Equipment	RTCP Parameters Set-A	Clause 8,3,4.5.9,4.3,4.4 of RFC 3551
68	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	IP Multimedia Conferencing Equipment	RTCP Parameters Set-B	Clause 8,3 of RFC 3551
69	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Media Gateway	DTMF Parameters Set-A	Clause 2,2.2,2.3 of RFC 4733
70	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Media Gateway	RTP Parameters Set-B	Clause 6.4.1,5.1 of RFC 3550

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71	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Media Gateway	SCTP Parameters Set-A	Clause 3,3.1,3.2,3.2.1,3.2.2,4 of RFC 4960
72	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Media Gateway	SIP Parameters Set-B	Clause 4,7.4.1,8.1.1, 8.1.1.2 to 8.1.1.7,12, 12.1.1,12.1.2,15,13.2.1,21 of RFC 3261
73	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Private Automatic Branch Exchange	DTMF Parameters Set-C	Clause 2.3.5,2.5.1.1,2.5.1.2,2.2.1 of RFC 4733
74	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Private Automatic Branch Exchange	RTP Parameters Set-A	Clause 6.4.1,5.1 of RFC 3550
75	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Private Automatic Branch Exchange	SIP Parameters Set-A	Clause 7.4.1,8.1.1, 8.1.1.2 to 8.1.1.7,12, 12.1.1,12.1.2,15,13.2.1,21 of RFC 3261
76	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	products with 25G Gigabit Optical Ethernet Interface	Average Launch power for 25 GE Opt interface	IEEE 802.3 Cl. 114, Annex-H
77	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	products with 25G Gigabit Optical Ethernet Interface	Receiver Sensitivity for25 GE Opt interface	IEEE 802.3 Cl. 114, Annex-H
78	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Products with 25G Gigabit Optical Ethernet Interface	Wavelength for 25 GE Opt interface.	IEEE 802.3 Cl. 114 Annex-H
79	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	products with Fast Ethernet Optical Interface	Average Launch power for FE Opt interface	IEEE 802.3u, Clause 58, Annex-H
80	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	products with Fast Ethernet Optical Interface	Receiver Sensitivity for FE Opt interface	IEEE 802.3u, Clause 58, Annex-H
81	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Products with Fast Ethernet Optical Interface	Wavelength for FE Opt interface	IEEE 802.3u, Clause 58, Annex-H

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82	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Session Border Controller	RTP Parameters Set-C	Clause 4,2.1 of RFC 3550
83	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Session Border Controller	SCTP Parameters Set-B	Clause 1.5.3,1.5.7,6.1,8.2 of RFC 4960
84	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Session Border Controller	SIP Parameters Set-C	Clause 8.1.1.6,7.4.2,7.2 of RFC 3261
85	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Softswitch	DTMF Parameters Set-B	Clause 3.1,3.3,3.2,2.3,2,3,2.2 of RFC 4733
86	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Softswitch	SIP Parameters Set-D	Clause 8.1.1.6,7.4.2,7.2,9,9.1 of RFC 3261
87	SOFTWARE & IT SYSTEM TESTING - SOFTWARE TESTING	IP Router	Fuzzing – Network and Application Level	ITSAR for IP Router section 9.1 of ITSAR-IPR0001 - Clause 4.4.4 of 3GPP TS 33.117 v17.2.0 (2022 – 12) - Clause 4.4.4 of ETSI TS 133 117 V17.1.0 (2022-09) - Clause 4.4.4 of TSDSI STD T1.3GPP 33.117- 14.2.0 V.1.0.0.
88	SOFTWARE & IT SYSTEM TESTING - SOFTWARE TESTING	IP Router	Port Scanning	ITSAR for IP Router section 9.2 of ITSAR-IPR0001 - Clause 4.4.2 of 3GPP TS 33.117 v17.2.0 (2022 – 12) - Clause 4.4.2 of ETSI TS 133 117 V17.1.0 (2022-09) - Clause 4.4.2 of TSDSI STD T1.3GPP 33.117- 14.2.0 V.1.0.0
89	SOFTWARE & IT SYSTEM TESTING - SOFTWARE TESTING	IP Router	Vulnerability Scanning	ITSAR for IP Router section 9.3 of ITSAR-IPR-0001 - Clause 4.4.3 of 3GPP TS 33.117 v17.2.0 (2022 – 12) - Clause 4.4.3 of ETSI TS 133 117 V17.1.0 (2022-09) - Clause 4.4.3 of TSDSI STD T1.3GPP 33.117- 14.2.0 V.1.0.0