



	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						
Туре	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-LDP-1.1	Setup Verificati	sup Verification											
MUST	Establish	Setup Verification Establish Hello Adjacency and check that DUT Transport Address matches configured value											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.2	Setup Verificati	on											
MUST	Setup Veri Establish	fication LDP Session											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.3	Setup Verificati	on											
MUST	Setup Veri Request La	fication bel Mapping f	From DUT										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.4	Setup Verificati	on											
MUST	Setup Veri Establish	fication 2 simultaneou	ıs LDP Sessi	lons									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.5	Setup Verificati	on											
MUST	Setup Veri Establish		ns, request	Label Mappin	g								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.6	Setup Verification	on										
MUST	Setup Verification Send Label Release for unsolicited Label Mapping											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.9	Setup Verification	on										
MUST	Setup Veri Give Label	fication Mapping to I	DUT									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.13	Setup Verification	on										
MUST	Setup Verification Request Label Mapping from DUT for unknown FEC											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.14	Setup Verification	on					-					
MUST	Setup Veri Establish		vith ANVL as	s targeted pe	er							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.16	Setup Verification	on										
MUST	Setup Verification Send unsolicited Label Mapping to DUT using Liberal Label Retention and listen for Label Release.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.19	Setup Verification	on									
MUST	Setup Verification Send Address Message with Address List TLV										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.24	Setup Verification	on									
MUST	Setup Veri Send DUT l		which DUT s	should forward	d						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-1.25	Setup Verification	on									
MUST	Setup Veri Send DUT l		which DUT s	should not for	rward						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-2.3	RFC 3036, s1.2	2 p6 LDP Message	Exchange								
MUST	When an LS	llo message,	establish a	session with	h another LSR ization proce						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-2.4	RFC 3036, s1.2	2 p6 LDP Message	Exchange								
MAY	Upon succe	LDP Message Exchange and Structure Upon successful completion of the initialization procedure, the two LSRs are LDP peers, and may exchange advertisement messages.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-2.6	RFC 3036, s1.2	2 p6 LDP Message	Exchange									
MUST	The LSR ad	LDP Message Exchange and Structure The LSR advertises a label mapping to a neighboring LSR when it wishes the neighbor to use a label.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-2.8	NEGATIVE RFC 3036, s1.2	2 p6 LDP Message	Exchange									
MUST	LDP uses t		ort for ses	ssion, advert	isement and n ed discovery							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-2.9	RFC 3036, s1.3	3 p7 LDP Message	Structure									
MUST	LDP Message Exchange and Structure The Value part of a TLV-encoded object, or TLV for short, may itself contain one or more TLVs. (DUT Receiving TLV)											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.3	RFC 3036, s2.1 RFC 3036, s2.1											
MUST	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport We say that a particular address "matches" a particular address prefix if and only if that address begins with that prefix. We also say that a particular packet matches a particular LSP if and only if that LSP has an Address Prefix FEC element which matches the packet"s destination address.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.8	RFC 3036, s2.1	l p9 FECs										
MUST	If a packe	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport If a packet matches multiple LSPs, it is mapped to the LSP whose matching prefix is the longest.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.9	RFC 3036, s2.1	l p9 FECs										
MUST	If there i	s no one LSP one from the	whose match	ning prefix i	ers, Sessions s longest, th ing prefix is	e packet is	rt					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.12	RFC 3036, s2.1	l p9 FECs										
MUST	A packet m	ay match two n Address Pre	LSPs, one w	vith a Host Ad	ers, Sessions ddress FEC el cket is alway	ement and	rt					
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP-3.16	RFC 3036, s2.2	2.2 p10 LDP Identifi	ers									
MUST	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport The first four octets of the LDP Identifier octets identify the LSR and must be a globally unique value, such as a 32-bit router Id the LSR.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.18	RFC 3036, s2.2	2.2 p10 LDP Identifi	ers									
MUST	The last t are always (Note: thi	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport The last two octets of LDP Identifiers for platform-wide label spaces are always both zero. (Note: this test is only valid for devices with platform-wide label spaces, and as such requires a LAN interface)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.21	RFC 3036, s2.2	2.4 p11 LDP Transp	ort									
MUST				ces, Identific ort for session	ers, Sessions ons.	and Transpo	rt					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-3.23	NEGATIVE RFC 3036, s2.2.4 p11 LDP Transport											
MUST	When multi		ons are rec		ers, Sessions n two LSRs th		rt					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.7		2 p6 LDP Message I.1 p12 Basic Disco										
MUST	Basic and Extended Discovery Mechanisms Discovery messages provide a mechanism whereby LSRs indicate their presence in a network by sending a Hello message periodically. To engage in LDP Basic Discovery on an interface an LSR periodically sends LDP Link Hellos out the interface.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.8 MUST	RFC 3036, s1.2 p6 LDP Message Exchange RFC 3036, s2.4.1 p12 Basic Discovery Mechanism RFC 3036, s3.10.1 p83 Well-known Numbers/UDP and TCP Ports											
	Basic and Extended Discovery Mechanisms This [Hello message] is transmitted as a UDP packet to the LDP port at the `all routers on this subnet" group multicast address. LDP Link Hellos are sent as UDP packets addressed to the well-known LDP discovery port for the "all routers on this subnet" group multicast address. The UDP port for LDP Hello messages is 646											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.10	RFC 3036, s2.4	I.1 p12 Basic Disco	very Mechanism									
MUST	An LDP Lin	Extended Disc k Hello sent n. (Receipt c	by an LSR of	carries po	ossibly addit Address TLV)	ional						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.11	RFC 3036, s2.4	I.1 p12 Basic Disco	very Mechanism									
MUST	An LDP Lin		by an LSR of	carries po	ossibly addit ion Sequence							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.12	NEGATIVE RFC 3036, s2.4	I.1 p12 Basic Disco	very Mechanism									
MUST	Basic and Extended Discovery Mechanisms Receipt of an LDP Link Hello on an interface identifies a "Hello adjacency" with a potential LDP peer reachable at the link level on the interface as well as the label space the peer intends to use for the interface.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.14	RFC 3036, s1.2 p6 LDP Message Exchange RFC 3036, s2.4.2 p12 Extended Discovery Mechanism										
MUST	Discovery presence i To engage	n a network b	vide a mecha by sending a ded Discover	nism whereby Hello messa Ty an LSR peri	LSRs indicat ge periodical iodically sen	ly.					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.16	RFC 3036, s2.4	1.2 p12 Extended D	iscovery Mechan	ism							
MUST	An LDP Tar the label		sent by an I	SR carries th	he LDP Identi sibly additio						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.19	NEGATIVE RFC 3036, s2.4.2 p12 Extended Discovery Mechanism										
MUST	Extended D One LSR in	Basic and Extended Discovery Mechanisms Extended Discovery differs from Basic Discovery in the following ways: One LSR initiates Extended Discovery with another targeted LSR, and the targeted LSR decides whether to respond to or ignore the Targeted Hello.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.20	RFC 3036, s2.4	1.2 p12 Extended D	iscovery Mechan	ism							
MUST	Basic and Extended Discovery Mechanisms Extended Discovery differs from Basic Discovery in the following ways: One LSR initiates Extended Discovery with another targeted LSR, and the targeted LSR decides whether to respond to or ignore the Targeted Hello.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.21	RFC 3036, s2.4	1.2 p12 Extended D	iscovery Mechan	ism							
MUST	Basic and Extended Discovery Mechanisms Extended Discovery differs from Basic Discovery in the following ways: A targeted LSR that chooses to respond does so by periodically sending Targeted Hellos to the initiating LSR.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-4.22	NEGATIVE RFC 3036, s2.4	1.2 p13 Extended D	iscovery Mechan	ism			•				
MUST	Receipt of potential		eted Hello i chable at th	dentifies a	"Hello adjace vel and the l	4					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.1	RFC 3036, s2.5.1 p13 LDP Session Establishment										
MUST	LDP Session Establishment and Transport Connection Establishment The exchange of LDP Discovery Hellos between two LSRs triggers LDP session establishment.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.5	RFC 3036, s2.5	5.2 p13 Transport C	onnection Establ	ishment							
MUST	LSR1 (DUT)	determines t	he transpor		tion Establis to be used at nnection.						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.9	RFC 3036, s2.5	5.2 p13 Transport C	onnection Establ	ishment							
MUST	If LSR2 (A	NVL) uses the	e Transport	Address opti	tion Establis onal object, t. (DUT is pa	A2 is the					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.10	RFC 3036, s2.5	5.2 p13 Transport C	onnection Establi	ishment							
MUST	LDP Session Establishment and Transport Connection Establishment If LSR2 (ANVL) uses the Transport Address optional object, A2 is the address LSR2 advertises via the optional object. (DUT is active)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.12	RFC 3036, s2.5	5.2 p14 Transport C	onnection Establ	ishment							
MUST	LSR1 (DUT)	determines we establishmen	whether it w nt by compar	vill play the ring addresses	tion Establis active or pa s A1 and A2 a ole; otherwis	ssive role s unsigned					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.13	RFC 3036, s2.5	5.2 p14 Transport C	onnection Establi	ishment							
MUST	LDP Session Establishment and Transport Connection Establishment If A1 and A2 are not in the same address family, they are incomparable, and no session can be established. (Basic Hello)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.19	RFC 3036, s2.5	5.2 p14 Transport C	onnection Establ	ishment							
MUST	An LSR MUS		the same tra		tion Establis ss in all Hel						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-5.20	NEGATIVE RFC 3036, s2.5	5.2 p14 Transport C	onnection Establ	ishment							
MUST	An LSR MUS		the same tra	-	tion Establis ss in all Hel						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.1	RFC 3036, s2.5	5.3 p14 Session Init	ialization								
MUST	Session Initialization After LSR1 and LSR2 establish a transport connection they negotiate session parameters by exchanging LDP Initialization messages.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.4	RFC 3036, s2.5	5.3 p15 Session Init	ialization								
MUST	The Initia sender"s (label spac	s both the LDI ce and the LDI space.							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.5	NEGATIVE RFC 3036, s2.5.3 p15 Session Initialization										
MUST	Session Initialization The Initialization message carries both the LDP Identifier for the sender"s (active LSR"s) label space and the LDP Identifier for the receiver"s (passive LSR"s) label space.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.6	NEGATIVE RFC 3036, s2.5	5.3 p15 Session Init	ialization								
MUST	The Initia sender"s (label spac	s both the LDI ce and the LDI space.							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.8	RFC 3036, s2.5	5.3 p15 Session Init	ialization								
MUST	Session Initialization When LSR1 (DUT) plays the passive role and receives an acceptable Initialization message, LSR1 replies with an Initialization message of its own to propose the parameters it wishes to use and a KeepAlive message to signal acceptance of LSR2s parameters.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.11	RFC 3036, s2.5	5.3 p15 Session Init	ialization								
MUST	When LSR1 matching H	ello adjaceno	cy it sends		LSR1 cannot f jected/No Hel tion.						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.12	RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	When LSR1 KeepAlive		to its Initi	alization me	LSR1 receives ssage, the se						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.13	RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	Session Initialization When LSR1 (DUT) plays the passive role and if LSR1 receives an Error Notification message, LSR2 has rejected its proposed session and LSR1 closes the TCP connection.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.14	RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	Session Initialization When LSR1 (DUT) plays the active role and if LSR1 receives an Error Notification message, LSR2 has rejected its proposed session and LSR1 closes the TCP connection.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.15	NEGATIVE RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	When LSR1 Initializa		or a Keep A		SR1 does not e peer, LSR1						
	Ubuntu 18.04: pass	Ubuntu 18.04: unpredict	Ubuntu 18.04: pass	Ubuntu 18.04: unpredict	Ubuntu 18.04: unpredict	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: unpredict	Debian 12: pass				
ANVL-LDP-6.16	RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	Session Initialization When LSR1 (DUT) plays the active role and if LSR1 receives an acceptable Initialization message, it replies with a KeepAlive message.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.17	RFC 3036, s2.5	5.3 p16 Session Init	ialization								
MUST	When LSR1				SR1 receives n parameters.						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.19	RFC 3036, s2.5	5.3 p16 Session Init	ialization									
MUST	An LSR mus exponentia	Session Initialization An LSR must throttle its session setup retry attempts with an exponential backoff in situations where Initialization messages are being NAK"d.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-6.21	RFC 3036, s2.5	5.3 p16 Session Init	ialization									
MUST	The sessio Initializa specific s	tion message ession establ open the ses	must be del ishment act	ion that mus	ing a NAK"d than 15 seco t be delayed on by the LSR	is the						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.1	RFC 3036, s2.5	5.4 p18 Initialization	State Machine									
MUST				Session Mainta transmit In	ainance itialization	msg (Active						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.2	RFC 3036, s2.5	5.4 p18 Initialization	State Machine									
MUST	In state I	NITIALIZED if	LSR receiv	_	ainance able Initiali zation msg an	_						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.3	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	Initialization State Machine and Session Maintainance In state INITIALIZED if LSR receives any other LDP msg, action is to transmit Error Notification msg (NAK) and close transport connection.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.4	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	In state 0		R receives a	Session Mainta A KeepAlive ma	ainance sg, the LSP i	s					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.5	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	Initialization State Machine and Session Maintainance In state OPENREC if LSR receives a KeepAlive msg, the LSP is operational. (DUT is active)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.6	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	In state 0	PENREC if LSF rror Notifica	R receives a		ainance msg, the act e transport c						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.7	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
	Initialization State Machine and Session Maintainance In state OPENREC if LSR receives any other LDP msg, the action is to transmit Error Notification msg (NAK) and close transport connection. (DUT is active)										
MUST	In state 0 transmit E	PENREC if LSF rror Notifica	R receives a	any other LDP	msg, the act						
MUST	In state 0 transmit E	PENREC if LSF rror Notifica	R receives a	any other LDP	msg, the act		Ubuntu 18.04: untested				





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ANVL-LDP-7.8	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	Initialization State Machine and Session Maintainance In state OPENSENT if LSR receives an acceptable Initialization msg, the action is to transmit KeepAlive msg.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.9	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	In state 0	PENSENT if LS	SR receives		ainance P msg, the ac e transport c						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.11	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	Initialization State Machine and Session Maintainance In state OPERATIONAL if LSR receives other LDP msgs, the session remains OPERATIONAL.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.12	RFC 3036, s2.5	5.4 p18 Initialization	State Machine								
MUST	In state 0		a timeout	Session Mainta occurs, the a connection.	ainance action is to	transmit					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.15	RFC 3036, s2.5	5.5 p20 Maintaining	Hello Adjacencie	es							
MUST	An LSR mai	ntains a hold	d timer with		ainance adjacency whi the adjacenc						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.16	RFC 3036, s2.5	5.5 p20 Maintaining	Hello Adjacencie	es							
MUST	Initialization State Machine and Session Maintainance If the timer expires without receipt of a matching Hello from the peer, LDP concludes that the peer no longer wishes to label switch using that label space for that link (or target, in the case of Targeted Hellos) or that the peer has failed.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.17	RFC 3036, s2.5	5.5 p20 Maintaining	Hello Adjacencie	es							
MUST	When the l terminates	ast Hello ad	jacency for sion by send		ainance n is deleted, cation messag						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.18	RFC 3036, s2.5	5.6 p20 Maintaining	LDP Sessions								
MUST	An LSR mai	ntains a Keep	Alive timer		ainance er session wh e session pee						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.19	RFC 3036, s2.5	5.6 p20 Maintaining	LDP Sessions				-				
MUST	Initialization State Machine and Session Maintainance If the KeepAlive timer expires without receipt of an LDP PDU from the peer the LSR concludes that the transport connection is bad or that the peer has failed, and it terminates the LDP session by closing the transport connection.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.21		5.6 p20 Maintaining 5.4.1 p63 KeepAlive		dures							
MUST	After an L its peer r period to	Initialization State Machine and Session Maintainance After an LDP session has been established, an LSR must arrange that its peer receive an LDP PDU from it at least every KeepAlive time period to ensure the peer restarts the session KeepAlive timer. The LSR may send any protocol message to meet this requirement.									
	Sessions" received o provided t an LSR has must arran every Keep circumstan	The KeepAlive Timer mechanism described in Section "Maintaining LDP Sessions" resets a session KeepAlive timer every time an LDP PDU is received on the session TCP connection. The KeepAlive Message is provided to allow reset of the KeepAlive Timer in circumstances where an LSR has no other information to communicate to an LDP peer. An LSR must arrange that its peer receive an LDP Message from it at least every KeepAlive Time period. Any LDP protocol message will do but, in circumstances where no other LDP protocol messages have been sent within the period, a KeepAlive message must be sent.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.22		5.6 p20 Maintaining 5.4.1 p63 KeepAlive		dures							
MUST	The LSR ma [KeepAlive The KeepAl Sessions" received o provided t an LSR has must arran every Keep circumstan	Initialization State Machine and Session Maintainance The LSR may send any protocol message to meet this requirement [KeepAlive requirement]. The KeepAlive Timer mechanism described in Section "Maintaining LDP Sessions" resets a session KeepAlive timer every time an LDP PDU is received on the session TCP connection. The KeepAlive Message is provided to allow reset of the KeepAlive Timer in circumstances where an LSR has no other information to communicate to an LDP peer. An LSR must arrange that its peer receive an LDP Message from it at least every KeepAlive Time period. Any LDP protocol message will do but, in circumstances where no other LDP protocol messages have been sent within the period, a KeepAlive message must be sent.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.23	RFC 3036, s2.5.6 p20 Maintaining LDP Sessions RFC 3036, s3.5.4.1 p63 KeepAlive Message Procedures												
MUST	After an L its peer r period to In circums	Initialization State Machine and Session Maintainance After an LDP session has been established, an LSR must arrange that its peer receive an LDP PDU from it at least every KeepAlive time period to ensure the peer restarts the session KeepAlive timer. In circumstances where an LSR has no other information to communicate to its peer, it sends a KeepAlive message.											
	Sessions" received o provided t an LSR has must arran every Keep circumstan	The KeepAlive Timer mechanism described in Section "Maintaining LDP Sessions" resets a session KeepAlive timer every time an LDP PDU is received on the session TCP connection. The KeepAlive Message is provided to allow reset of the KeepAlive Timer in circumstances where an LSR has no other information to communicate to an LDP peer. An LSR must arrange that its peer receive an LDP Message from it at least every KeepAlive Time period. Any LDP protocol message will do but, in circumstances where no other LDP protocol messages have been sent within the period, a KeepAlive message must be sent.											
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-7.25	RFC 3036, s2.5	5.6 p20 Maintaining	LDP Sessions										
MAY	An LSR may	choose to te ld it choose	erminate an		ainance with a peer a e peer with a								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-8.5		5.1.1 p21 Independe 3.3 p28 Discussion		ition Control									
MAY	When using		LSP control	., each LSR ma	ay advertise es.	label							
	Label Mapp		or an FEC b	efore receiv	an LSR may o ing a Label M								
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-8.6	RFC 3036, s2.6	6.1.1 p21 Independe	ent Label Distribu	tion Control							
MUST	Label Distribution and Management When operating in independent Downstream Unsolicited mode, an LSR may advertise a label mapping for a FEC to its neighbors whenever it is prepared to label-switch that FEC.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-8.20	RFC 3036, s2.6	6.2.2 p22-23 Libera	Label Retention	Mode	-	-	-				
MUST	When using a peer LSR	is retained	el retentior regardless	of whether the	l mapping rec he LSR is the valid next ho	next hop					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-8.21	RFC 3036, s2.6	6.2.2 p22-23 Libera	Label Retention	Mode							
MUST	When using		el retention		l mapping rec	eived from					
					he LSR is the valid next ho						
							Ubuntu 18.04: untested				
	for the ad	vertised mapp Ubuntu 18.04:	oing. (Knowr	Ubuntu 18.04:	valid next ho Ubuntu 18.04:	р) Ubuntu 18.04:					
ANVL-LDP-9.3	for the ad Ubuntu 18.04: pass Debian 12: untested	vertised mapp Ubuntu 18.04: pass	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12:	Ubuntu 18.04: untested Debian 12:	untested Debian 12:				
ANVL-LDP-9.3	for the ad Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi When the n	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a	Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addres prefix cha	Ubuntu 18.04: pass Debian 12: untested Addresses esses enges the LSR	Ubuntu 18.04: pass Debian 12:	Ubuntu 18.04: untested Debian 12: pass e the label	untested Debian 12:				
	for the ad Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi When the n	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a	Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addres prefix cha	Ubuntu 18.04: pass Debian 12: untested Addresses esses enges the LSR	Ubuntu 18.04: pass Debian 12: pass	Ubuntu 18.04: untested Debian 12: pass e the label	untested Debian 12:				
	Debian 12: untested RFC 3036, s2.7 LDP Identi When the n advertised	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a by the new r Ubuntu 18.04:	Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addres prefix charact hop from	Ubuntu 18.04: pass Debian 12: untested Addresses esses enges the LSR om the LIB fo: Ubuntu 18.04:	Ubuntu 18.04: pass Debian 12: pass must retriev r use in forw Ubuntu 18.04:	Debian 12: pass The the label arding. Ubuntu 18.04: Ubuntu 18.04:	Ubuntu 18.04:				
	for the ad Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi When the n advertised Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a by the new r Ubuntu 18.04: pass	Ubuntu 18.04: pass Debian 12: untested as and Next Hop Address a prefix chancet hop from Ubuntu 18.04: pass Debian 12: untested	Debian 12: untested Addresses esses anges the LSR om the LIB for Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: pass must retriev r use in forw Ubuntu 18.04: pass Debian 12:	Debian 12: pass The the label arding. Ubuntu 18.04: untested Ubuntu 18.04: untested Debian 12:	Ubuntu 18.04: untested Debian 12: Debian 12:				
MUST	for the ad Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi When the n advertised Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi To retriev	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a by the new r Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addre a prefix charext hop fro Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addre the LSR must	Debian 12: untested Addresses Bases Bases	Ubuntu 18.04: pass Debian 12: pass must retriev r use in forw Ubuntu 18.04: pass Debian 12:	Debian 12: pass The label arding. Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: Debian 12:				
MUST ANVL-LDP-9.4	for the ad Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi When the n advertised Ubuntu 18.04: pass Debian 12: untested RFC 3036, s2.7 LDP Identi To retriev	Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a by the new r Ubuntu 18.04: pass Debian 12: untested 7 p23 LDP Identifier fiers and Nexext hop for a by the new r	Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addre a prefix charext hop fro Ubuntu 18.04: pass Debian 12: untested s and Next Hop Addre the LSR must	Debian 12: untested Addresses Bases Bases	Ubuntu 18.04: pass Debian 12: pass must retriev r use in forw Ubuntu 18.04: pass Debian 12: pass	Debian 12: pass The label arding. Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: Debian 12:				





	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-LDP-9.5	RFC 3036, s2.7	p23 LDP Identifier	s and Next Hop A	Addresses							
MUST	LDP Identifiers and Next Hop Addresses Similarly, when the LSR learns a label for a prefix from an LDP peer, it must be able to determine whether that peer is currently a next hop for the prefix to determine whether it needs to start using the newly learned label when forwarding packets that match the prefix.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-9.8	RFC 3036, s2.7	p24 LDP Identifier	s and Next Hop A	Addresses	-						
MUST		fiers and Nex ds an Address			ts addresses	to a peer.					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-9.9	RFC 3036, s2.7	p24 LDP Identifier	s and Next Hop /	Addresses							
MUST	LDP Identifiers and Next Hop Addresses An LSR sends a Withdraw Address message to withdraw previously advertised addresses from a peer.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-15.2	RFC 3036, s3 p	31 Protocol Specifi	ication								
MUST		pecification- DU can carry		EC TLVs LDP message:	s.						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-15.3	RFC 3036, s3 p	31 Protocol Specifi	ication								
MUST		pecification- the messages			be related to	one					
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP-15.4	NEGATIVE RFC 3036, s3.1	p31 LDP PDUs									
MUST		Protocol SpecificationPDUs and FEC TLVs Each LDP PDU is an LDP header followed by one or more LDP messages.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-15.5	RFC 3036, s3.1	p31-32 LDP PDUs	3		-						
MUST	Validate L * Version: version 1. * PDU Leng PDU in oct maximum al initialize allowable * LDP Iden globally u the LSR an The last t	th: Two octet ets, excludir lowable PDU Id. Prior to length is 409 tifier: The finique value. d also used two octets ide	om DUT. I of the specific integer space the Version of the completion of bytes. First four of It should to identify a lake	ecification specifying the on and PDU Legotiable when of the negotion octets identified a 32-bit in loop de	total length ength fields. n an LDP sess iation the mare the LSR and router Id assetection Path hin the LSR.	of this The ion is ximum d must be a igned to Vectors.					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-15.7	RFC 3036, s3.3	3 p32-33 Type-Leng	th-Value Encodir	ng							
MUST	Validate L An LDP TLV a Type and	2 bits to sp followed by a	ng from DUT as a 2 octet becify behav	C. field that with the contract of the contrac	uses 14 bits LSR doesn"t r followed by a	ecognize					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.10	RFC 3036, s2.1 p8 FECs RFC 3036, s3.4.1 p34 FEC TLV RFC 3036, s3.4.1 p35 FEC TLV										
MUST	Protocol SpecificationPDUs and FEC TLVs Each FEC is specified as a set of one or more FEC elements.										
	A FEC is a list of one or more FEC elements. The FEC TLV encodes FEC items.										
				ports the use oping message	of multiple only.	FEC					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.11	RFC 3036, s3.4	l.1 p34-35 FEC TL\	/								
MUST		pecification- EC TLV Encodi									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.12	RFC 3036, s3.4	1.1 p35 FEC TLV									
MUST	Protocol SpecificationPDUs and FEC TLVs A FEC Element value is encoded as a 1 octet field that specifies the element type, and a variable length field that is the type-dependent element value. The FEC Element value encoding is: FEC Element Type Value Type name										
	Wildcard Prefix Host Addre	0x02	See below.	e., 0 value	octets (see	below)					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.15	NEGATIVE RFC 3036, s3.4	1.1 p35 FEC TLV									
MUST	Protocol SpecificationPDUs and FEC TLVs Note that this version of LDP supports the use of multiple FEC Elements per FEC for the Label Mapping message only. The use of multiple FEC Elements in other [than Label Mapping] messages is not permitted in this version of LDP.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.16	NEGATIVE RFC 3036, s3.4	I.1 p35 FEC TLV									
MUST	The Wildca		nt is to be		the Label Wi ldcard FEC)	thdraw and					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.18		I.1 p35 FEC TLV 5.10.1 p76 Label Wi	thdraw Message	Procedures							
MUST	Protocol SpecificationPDUs and FEC TLVs The Wildcard FEC Element indicates the withdraw/release is to be applied to all FECs associated with the label within the following label TLV.										
	Withdraw m	The FEC TLV may contain the Wildcard FEC Elementif the Label Withdraw message contains an optional Label TLV, then the label is to be withdrawn from all FECs to which it is bound.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 15.19		I.1 p35 FEC TLV 5.10.1 p76 Label Wi	thdraw Message	Procedures							
MUST		pecification- rd FEC Elemer			Element in th	e FEC TLV.					
		V may contair other FEC El		ard FEC Elemen	nt; if so, it	may					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.4	l.1.1 p37 FEC Proc	edures								
15.23 SHOULD	Protocol SpecificationPDUs and FEC TLVs If in decoding a FEC TLV an LSR encounters a FEC Element with an Address Family it does not support, it should stop decoding the FEC TLV, abort processing the message containing the TLV, and send an "Unsupported Address Family" Notification message to its LDP peer signaling an error.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.4	I.1.1 p37 FEC Proc	edures								
15.24 SHOULD	If it enco decoding t	he FEC TLV, a n "Unknown FE	Element typabort proces	e it cannot ossing the mess	decode, it sh sage containi to its LDP p	ng the TLV,					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-16.2	RFC 3036, s3.4	I.2.1 p37 Generic L	abel TLV								
MUST		rotocol SpecificationLabel, Address, and Hop Count TLVs alidate Generic Label TLV encoding from DUT.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 16.14	NEGATIVE RFC 3036, s3.4	I.3 p40 Address Lis	t TLV								
MUST			p Count TLVs this version	of the							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-18.2	RFC 3036, s3.4	I.4.1 p40 Hop Coun	t Procedures								
SHOULD	Hop Count Procedures During setup of an LSP an LSR R may receive a Label Mapping message for the LSP that contains the Hop Count TLV. If it does, it should record the hop count value and not release the mapping.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-20.1	NEGATIVE RFC 3036, s3.4	l.6 p43 Status TLV									
MUST	Status TLV Notificati signaled.		carry Status	s TLVs to spe	cify events b	eing					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-20.2	RFC 3036, s3.4.6 p44 Status TLV										
MUST	Status TLV Validate Status TLV encoding from DUT.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-20.4	RFC 3036, s3.4	1.6 p44 Status TLV									
MUST	Status TLV F bit shou Code field	ld be the sam	ne as the se	etting of the	F-bit in the	Status					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-20.8	RFC 3036, s3.4	I.6 p44 Status TLV									
SHOULD	Status TLV Forward bit (F-Bit)If clear (=0), the notification should not be forwarded.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.4	1.6 p45 Status TLV									
20.12 MUST	Status TLV A message other than a Notification message may carry a Status TLV as an Optional Parameter.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-21.1	RFC 3036, s3.5	p45 LDP Message	es								
MUST	Upon recei	pt of an unkr	nown [LDP] n	nessage, if U	Messages, Ad nknown Messag he message or	e bit (U)	es				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-21.2	RFC 3036, s3.5	p45 LDP Message	es								
MUST	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Upon receipt of an unknown [LDP] message, if Unknown Message bit (U)is set (=1), the unknown message is silently ignored.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-21.5	RFC 3036, s3.5	5.1 p45 Notification	Message				-				
MUST				es, KeepAlive encoding fro	Messages, Ad m DUT	dress Messag	es				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.4 p63 KeepAlive N	/lessage								
21.11 MUST	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Validate KeepAlive Messages from DUT										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5.5 p64 Address Message										
21.13 MUST	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Validate Address Message format from DUT.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.5.1 p65 Address N	/lessage Procedเ	ıres							
SHOULD	When a new or Label R	LDP session	is initiali ges an LSR s	zed and befor should advert	Messages, Ad re sending La ise its inter	bel Mapping	es				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 21.15	RFC 3036, s3.5	5.5.1 p65 Address N	/lessage Procedเ	ıres							
SHOULD	Whenever a		ites" a new	interface add	Messages, Ad dress, it sho age.		88				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.5.1 p65 Address N	/lessage Procedเ	ıres							
SHOULD	Whenever a should wit	n LSR "de-act	ivates" a p lress with a	previously adan Address Wi	Messages, Ad vertised addr thdraw messag	ess, it	es				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 21.17	RFC 3036, s3.5	5.5.1 p65 Address N	Message Procedu	ıres							
MUST	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages If an LSR does not support the Address Family specified in the Address List TLV, it should send an "Unsupported Address Family" Notification to its LDP signalling an error and abort processing the message.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	RFC 3036, s3.5.6 p65 Address Withdraw Message									
21.18 MUST	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Validate Address Withdraw Message format from DUT.										
WOST	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.1	RFC 3036, 3.5.	1.2.1 p49 Malforme	d PDU or Messa	ge							
MUST	Malformed		lessages tha		f the LDP Dis hem.	covery					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.2	RFC 3036, 3.5.	1.2.1 p49 Malforme	d PDU or Messa	ge							
MUST	Malformed		lessages tha	at are part o	f the LDP Dis hem. (Targete						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.3	RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge							
MUST	Events Signaled by Notification Messages An LDP PDU received on a TCP connection for an LDP session is malformed if (1) The LDP Identifier in the PDU header is unknown to the receiverThis is a fatal error signaled by the Bad LDP Identifier Status Code.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.4	RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed is not the peer for t	Events Signaled by Notification Messages An LDP PDU received on a TCP connection for an LDP session is malformed if (1) The LDP Identifier in the PDU header isknown but is not the LDP Identifier associated by the receiver with the LDP peer for this LDP session. This is a fatal error signaled by the Bad LDP Identifier Status Code.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.5	RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed receiver	if: (2) The I	a TCP conne LDP protocol atal error	ection for an l version is a signaled by	LDP session not supported the Bad Proto	by the						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.6	NEGATIVE RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message											
MUST	An LDP PDU malformed receiver, the sessio	if: (2) The I or it is supp n during sess	a TCP conne LDP protocol ported but i sion establi	ection for an L version is a Ls not the ve	LDP session not supported rsion negotia s is a fatal de.	by the ted for						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-22.8	RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge	-		-					
MUST	An LDP PDU malformed receiver	Events Signaled by Notification Messages An LDP PDU received on a TCP connection for an LDP session is malformed if: (2) The LDP protocol version is not supported by the receiverThis is a fatal error signaled by the Bad Protocol Version Status Code. (DUT takes active role)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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: unpredict					





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ANVL-LDP-22.9	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed	Events Signaled by Notification Messages An LDP PDU received on a TCP connection for an LDP session is malformed if: (3) The PDU Length field is too small (14) This is a fatal error signaled by the Bad PDU Length Status Code.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.10	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed PDU length	if: (3) The H	a TCP conne PDU Length f a fatal erro	ection for an field istoo or signaled by	o large (> ma	ximum						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.11	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed PDU length	if: (3) The F). This is a	a TCP conne PDU Length f a fatal erro	essages ection for an ield istoo or signaled by Mapping messag	o large (> ma y the Bad PDU	ximum						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.12	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge								
MUST	An LDP PDU malformed PDU length	Events Signaled by Notification Messages An LDP PDU received on a TCP connection for an LDP session is malformed if: (3) The PDU Length field istoo large (> maximum PDU length). This is a fatal error signaled by the Bad PDU Length Status Code. (PDU contains Label Request messages)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.13	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge							
MUST	Events Signaled by Notification Messages An LDP Message is malformed if: (1) The Message Type is unknown. If the Message Type is 0x8000 (high order bit = 0) it is an error signaled by the Unknown Message Type Status Code. If the Message Type is >= 0x8000 (high order bit = 1) it is silently discarded.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.15	NEGATIVE RFC 3036, 3.5.	1.2.1 p49 Malforme	ed PDU or Messa	ge							
MUST	An LDP Mes Mandatory		ormed if: (3 This is a r	3) The message non-fatal erre	e is missing or signalled						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.16	RFC 3036, 3.5.	1.2.2 p50 Unknowr	or Malformed TI	_V							
MUST	Malformed		ed in LDP me	essages that a	are part of t scarding the						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.17	RFC 3036, 3.5.	1.2.2 p50 Unknowr	or Malformed Tl								
MUST	A TLV cont LDP is mal indicates	formed if: (1 that the TLV	DP message 1) The TLV I extends bey	received on a Length is too Yond the end	a TCP connect large, that of the contai e Bad TLV Len	is, ning					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.18	RFC 3036, 3.5.	1.2.2 p50 Unknowr	or Malformed Tl	_V							
MUST	Events Signaled by Notification Messages A TLV contained in an LDP message received on a TCP connection of an LDP is malformed if: (2) The TLV type is unknown. If the TLV type is 0x8000 (high order bit 0) it is an error signaled by the Unknown TLV Status Code. If the TLV type is >= 0x8000 (high order bit 1) the TLV is silently dropped.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.19	RFC 3036, 3.5.	1.2.2 p50 Unknowr	or Malformed Tl	_V							
MUST	A TLV cont LDP is mal the receiv interprete	formed if: (3 er handles th d as indicati	LDP message B) The TLV V ne TLV but of Lve of a bug	received on a value is malforannot decode in either the	a TCP connect ormed. This the TLV Valu he sending or ormed TLV Val	occurs when e. This is receiving					
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP-	RFC 3036, s3.5	5.1.2.3 p48 Session	KeepAlive Time	Expiration							
22.20 MUST					the KeepAlive	Timer					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.21	RFC 3036, s3.5	5.1.2.4 p51 Unilater	al Session Shutd	own							
MUST	This is a Notificati provide a	on Message ma reason for th	signaled by ay optionall ne Shutdown.	the Shutdown y include an	Status Code. Extended Sta g LSR termina tion.	tus TLV to					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 22.23	RFC 3036, s3.5	5.1.2.7 p51 Internal	Errors								
MUST	Events Signaled by Notification Messages An LDP implementation may be capable of detecting problem conditions specific to its implementation. When such a condition prevents an implementation from interacting correctly with a peer, the implementation should, when capable of doing so, use the Internal Error Status Code to signal the peer. This is a fatal error.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-23.1	RFC 3036, s3.5	5.2 p52 Hello Messa	ages								
MUST	Hello Mess Validate H	ages ello Messages	s encoding f	rom DUT							
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-23.3	RFC 3036, s3.5	5.2 p52 Hello Messa	ages								
MUST	Hello Messages Hold Time: A value of 0 means use the default, which is 15 seconds for Link Hellos. A value of 0xffff means infinite.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-23.4	RFC 3036, s3.5	5.2 p52 Hello Messa	ages								
MUST	Hello Mess Hold Time: Targeted H	A value of 0) means use	the default,	which is 45	seconds for					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-23.8	RFC 3036, s3.5	5.2 p53 Hello Messa	ages								
MUST		ages This field i on and ignore			set to zero	on					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.2 p52 Hello Messa	ages							
23.10 MAY	unsigned c configurat	LV Configurat onfiguration ion state of	sequence nuthe sending	umber that ide	by the receiv					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.2.1 p54 Hello Mes	sage Procedures	3						
23.13 MUST		_		tween Hello t	ransmissions	be at most				
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP- 23.14	NEGATIVE RFC 3036, s3.5	5.2.1 p54 Hello Mes	sage Procedures	3						
MUST	Hello Messages Received LDP Hello Message Step 2: If the Hello is not acceptable, the LSR ignores it.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 23.16	NEGATIVE RFC 3036, s3.5	5.2.1 p54 Hello Mes	sage Procedures	3						
MUST					which it was	received				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-24.1	RFC 3036, s3.5	5.3 p55 Initialization	Message							
MUST		tion Messages nitialization		encoding from	DUT					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-24.3	RFC 3036, s3.5	5.3 p56 Initialization	Messages								
MUST	Initialization Messages A, Label Advertisement Discipline - Indicates the type of Label advertisement. A value of 0 means Downstream Unsolicited advertisement.										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-24.8	RFC 3036, s3.5	5.3 p57 Initialization	Messages								
MUST	D, Loop De		dicates whet		ection based etection is d						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.3 p57 Initialization	Messages		-		-				
24.10 MUST	Initialization Messages PVLim, Path Vector Limit - The configured maximum path vector length. Must be 0 if loop detection is disabled (D = 0).										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 24.14	RFC 3036, s3.5	5.3 p57 Initialization	Messages								
MUST	Reserved -	tion Messages This field i on and ignore	s reserved.		set to zero	on					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 24.15	RFC 3036, s3.5	5.3 p57 Initialization	Messages								
MUST	Max PDU Le allowable	Initialization Messages Max PDU Length - Two octet unsigned integer that proposes the maximum allowable length for LDP PDUs for the session. A value of 255 or less specifies the default maximum length of 4096 octets.									
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 24.19	RFC 3036, s3.5	5.3 p57 Initialization	Messages				
MUST	Receiver L LSR must s response t	end a Session	r - If there n Rejected/N Lization mes	No Hello Noti ssage and not	ing Hello adj fication mess establish th oel space)	age in	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.3 p57 Initialization	Messages				
24.20 MUST	Receiver L LSR must s response t	end a Session	r - If there n Rejected/N Lization mes	No Hello Noti: ssage and not	ing Hello adj fication mess establish th oel space)	age in	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-26.7	RFC 3036, s3.5	5.7.1 p67 Label Mar	oping Message P	rocedures			
MUST	An LSR rec Prefix or forwarding	Host Address	FEC Element couting tabl	should not	a downstream use the label n entry that	for	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-26.8	RFC 3036, s3.5	5.7.1.1 p67 Indepen	dent Control Map	pping		-	-
MUST	An LSR con	a mapping me			Downstream Un gnizes a new		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 26.11	RFC 3036, s3.5	5.7.1.1 p67 Indepen	dent Control Map	pping			
MUST	An LSR con	ing Messages figured for l ttributes of			s a mapping m	essage when	
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP-	RFC 3036, s3.5	5.7.1.1 p67 Indepen	dent Control Mar	oping			
26.12 MUST	An LSR con receiving		om the downs		s a mapping m op and no ups		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-27.7	RFC 3036, s3.5	5.8.1 p71 Label Red	uest Message P	rocedures			
SHOULD	The receiv Label Mapp		requested la	abel or with a	quest message a Notificatio		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-27.8		5.8.1 p71 Label Red 5.8.1 p71 Label Red					
MUST	When the F a Host Add to determi that exact must respo A Notifica	ress FEC Elem ne its respor ly matches th nd with a No tion message	ment, the rease. Unless to requested Route Notif	eceiving LSR of the state of th	cannot be sat	ing table es an entry the LSR	
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP- 28.12	RFC 3036, s3.5	5.10 p74 Label With	draw Message				
MUST				el Withdraw Mo ge encoding f	essages, Labe rom DUT	l Release Me	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 28.15		i.10.1 p75 Label Wi endix A.1.14 p120		Procedures to longer label switch	:h		
MUST	An LSR tra conditions for which unilateral (or FECs)	nsmits a Labe : (1) The LSF it has advert ly (e.g., via with the labe nilaterally o	el Withdraw no longer sised a labe a configurate mapping kalecides (or	message under recognizes a el; (2) The Lation) to no le being withdraw is re-configu	ured) to no l	ng nown FEC d witch a FEC onger label	ssages
	switch a p FEC, PrevA		C, Execute p		d_Label_Withd		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 28.19	RFC 3036, s3.5	5.10.1 p76 Label Wi	ithdraw Message	Procedures			
MUST	The FEC TL contain no optional L	V may contair other FEC El abel TLV in t hdrawing all	n the Wildca Lements. Ir the Label Wi	ard FEC Element this case, thdraw messag	essages, Labent; if so, it ifthere is ge, then the ly advertised	may not an sending	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.11 p76 Label Rele	ease Message				
28.21 MUST				el Withdraw Mo coding from D	essages, Labe UT	l Release Me	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.11 p77 Label Rele	ease Message				
28.22 MUST					essages, Labe in Label Rele		ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.11.1 p77 Label Re	elease Message I	Procedures			
28.23 MUST	An LSR mus	t transmit a	Label Relea	ase message u	essages, Labe nder any of t abel Withdraw	he	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 28.26	RFC 3036, s3.5	5.11.1 p77 Label Re	elease Message I	Procedures			
MUST	Note that message wi as specifi mapping is LSR keeps	<pre>if an LSR is ll never be t ed above. Ir no longer th each unused l</pre>	configured transmitted this case ne next hop label, so th	for "liberal in the case of LSR which so for the mapped to	essages, Labe mode", a Rel of condition ent the label ed FEC], the mediately be r the FEC.	ease (1) upstream	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, s3.5	5.11.1 p77 Label Re	elease Message I	Procedures			
28.27 MUST	Note that message wi as specifi from an LS keeps each	if an LSR is ll never be t ed above. Ir R which is no unused label	configured cransmitted this case of the next in that is	for "liberal in the case of [LSR received hop for the li	essages, Labe mode", a Rel of condition s a label map FEC], the ups ately be used he FEC.	ease (2) ping tream LSR	ssages
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-31.1	NEGATIVE RFC 3036, s3.1	0.1 p83 Well-know	n Numbers/UDP	and TCP Ports			
MUST		Numbers, Nam rt for LDP He		es is 646			
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-31.2	RFC 3036, s3.1	10.1 p83 Well-know	n Numbers/UDP	and TCP Ports			
MUST		Numbers, Nam rt for establ		session conn	ections is 64	6	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-32.1	NEGATIVE RFC 3036, s5.1 RFC 3036, s5.3	p86 Spoofing 3 p87 Denial of Serv	vice				
	An LSR can	os only on ir	threat of sp		Hellos by acc that can be t		
	attacks: (1) Well k address th the LSR is	nown UDP Port e threat of I	for LDP Di DoS attacks nnected only	iscovery. An via Basic He	of service (D LSR administ llos by ensur ich can be tr	rator can ing that	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-32.4	NEGATIVE RFC 3036, s5.1	p86 Spoofing					
MUST	An LSR can them and a	ccepting only	threat of sp those original		ed Hellos by ources permit lishment)		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-32.5	RFC 3036, s5.1	p86 Spoofing					
MUST	An LSR can them and a		hreat of sp	ginating at so	ed Hellos by ources permit ishment)		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-32.6	RFC 3036, s5.1	p86 Spoofing					
MUST	An LSR can	ccepting only	hreat of sp		ed Hellos by ources permit		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-32.7	NEGATIVE RFC 3036, s5.1	p86 Spoofing					
MUST	An LSR can	ccepting only	hreat of sp		ed Hellos by ources permit		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 32.10	NEGATIVE RFC 3036, s5.1	p86 Spoofing					
MUST	An LSR can		hreat of sp		Hellos by ign s Subnet mult		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-33.4	RFC 3036, App	endix A.1.1 p97 Re	eceive Label Req	uest							
MUST	Receive Label Request If there is no Next Hop, Execute procedure Send_Notification (MsgSource, No Route)										
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-34.2	RFC 3036, App	endix A.1.2 p99 Re	ceive Label Map	ping							
MUST	If the rec request fo and LSR do MsgSource Hop for th label mapp MsgSource.	r FEC previou es not have a for the LSP i e FEC, and LS	mapping does asly sent to a previously in question, GR is using with label a	o MsgSource, a received lal and the Msg liberal labe	n outstanding and no loop doel mapping fource is not retention, attributes fr	etected, or FEC from the Next record					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-34.3	RFC 3036, App	endix A.1.2 p99 Re	ceive Label Map	ping							
MUST	If the rec request fo and LSR do MsgSource for the FE LSR has pr question, label mapp each peer record lab MsgSource, mapping fo sent, and	r FEC previous so not have a for the LSP is considered for each ing are not othat LSR does el mapping for and send a lar FEC previous perform LSR I>9->11->12->1	mapping does asly sent to a previously in question, so not ingress a label mapper that reconsistent we not have a per FEC with label mapping asly sent to label Use present to label Use present to a per per label Use present to label use pre	o MsgSource, a received lal and the Msg. s for FEC, as apping for FEC ecceived attributed the second received attributed and received and received and received and received and received to peer to incoocedure.	n outstanding and no loop doel mapping fource is the nd for each position of the LSP ibutes in the eviously sent abel requests ceived attribed update recolude the new	etected, or FEC from Next Hop eer that in received , and for for FEC, utes from rd of label attributes					
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-34.5	RFC 3036, App	endix A.1.2 p99 Re	ceive Label Map	ping			
MUST	If the rec request fo and LSR do MsgSource for the FE LSR has no question, no label r mapping fo and perfor	r FEC previoues not have a for the LSP is C, and LSR is t previously and if DU ordequests for FEC with lam LSR Label U	mapping does asly sent to a previously in question, so not ingressent a labelered controller from peetbel and recorded.	o MsgSource, a received lal and the Msgs s for FEC, as al mapping for al is not in a er marked as p	n outstanding and no loop doel mapping fource is the nd for each pr FEC for the use by LSR, a pending, recoutes from Msg	etected, or FEC from Next Hop eer that LSP in nd LSR has rd label	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 34.11	RFC 3036, App	endix A.1.2 p99 Re	ceive Label Map	ping			
MUST	request for and LSR had for the LS MsgSource Send_Messa	r FEC previousl s a previousl P in questior does not mato	usly sent to y received n, and the l ch label rec Label Rele	MsgSource, a label mapping abel previous	n outstanding and no loop d g for FEC fro sly received sage, execute oel).	etected, m MsgSource from	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036, App	endix A.1.2 p99 Re	ceive Label Map	ping			
34.13 MUST	If the rec request fo and LSR do MsgSource from MsgSo MsgSource label rete attributes	r FEC previou es have a pre for the LSP i urce matches is not the Ne	mapping does asly sent to eviously reconduction, label received the mapped to the conduction of the co	MsgSource, a ceived label to and the labe wed in the ma the FEC, and	n outstanding and no loop d mapping for Fel previously essage, and task is using with label an	etected, EC from received he liberal	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 34.14 MUST	Receive La If the rec request fo and LSR ha for the LS MsgSource the Next H peer that in questio received l and for ea for FEC, r attributes record of new attrib	r FEC previous a previous a previous of in question matches label op for the FELSR has previous, and for each mapping che peer that ecord label mapping label mapping utes sent, ar >9->10->11->1	Part One mapping does asly sent to be a received in and the large and LSR cously sent ach peer the are not cortain to be a received in apping for a received and send apping for a received and a received a receiv	s not match and MsgSource, a label mapping abel previous in the message is not ingress a label mapping at received at mosistent with bot have any post of the property of the	n outstanding and no loop d g for FEC fro sly received e, and the Ms ss for FEC, a ing for FEC ftributes in those previous ending label el and received pping to peer to peer to procedure. 23->24->25->2	etected, m MsgSource from gSource is nd for each or the LSP the usly sent, requests ed and update include the	
	Ubuntu 18.04: FAIL Debian 12: untested	Ubuntu 18.04: FAIL Debian 12: untested	Ubuntu 18.04: FAIL Debian 12: untested	Ubuntu 18.04: FAIL Debian 12: untested	Ubuntu 18.04: FAIL Debian 12: FAIL	Ubuntu 18.04: untested Debian 12: FAIL	Ubuntu 18.04: untested Debian 12: FAIL
ANVL-LDP- 34.16 MUST	Receive La If the rec request fo and LSR ha for the LS MsgSource the Next H peer that LSP in que LSR has no label mapp MsgSource,	r FEC previous a previously in question matches label op for the FELSR has not pstion, and if label requesing for FEC wand perform	Part One mapping does asly sent to be a received in and the large and LSR previously so that to be a received in the large area of the large at large at LSR Label I	s not match and MsgSource, and label mapping abel previous in the message is not ingressent a label of control is a from peer mand received a see procedure	n outstanding and no loop d g for FEC fro sly received e, and the Ms ss for FEC, a mapping for F not in use by rked as pendiattributes from 28->30->31->3	etected, m MsgSource from gSource is nd for each EC for the LSR, and ng, record om	
	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: untested	Ubuntu 18.04: pass Debian 12: pass	Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: pass





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ANVL-LDP- 34.23	RFC 3036, App	endix A.1.2 p99 Re	eceive Label Map	ping			
MUST	If the rec FEC previo not have a for the LS FEC, and L previously for each p are not co LSR does n outstandin and receiv peer and u peer to in procedure.	usly sent to previously many previously many previously many many many many many many many man	mapping mate MsgSource, received lake a, and the M gress for FE mapping for eived attrike those previously laber request, received from MsgSo of label may attributes	and no loop of sel mapping for selection and for each of the selection and selection a	anding label detected, and or FEC from M the Next Hop ach peer that e LSP in ques received labe and for each or FEC, delet pping for FEC nd a label ma C previously erform LSR La	LSR does sgSource for the LSR has tion, and l mapping peer that e record of with label pping to sent to bel Use	
	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	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-LDP- 35.18	NEGATIVE RFC 3036 Appe	endix A - A.1.2 p10	4 Receive Label	Mapping			
MUST	Note 4: An peer would		mapping wit ot to establ	ish multipatl	t label from h label switc		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-37.4	RFC 3036, App	endix A.1.4 p107 R	teceive Label Rel	ease			
MUST	If LSR rec Label With Remove Lab and if any	draws) and LS el from forwa	Release (to Releas	that does not gress and is a thing use for	match any ou not merging, traffic from free the labe	then MsgSource	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-37.6	RFC 3036, App	endix A.1.4 p107 R	Receive Label Rel	ease			
MUST	If LSR rec Label With the LSR is from forwa peers do n	draws) and LS not configur rding/switchi	Release (to Release (to Release (to Propared to Propared to Release (to Releas	that does not ne egress and agate release traffic from free the la	match any ou is not mergi s, then Remov MsgSource an bel.	ng, and e Label	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-	RFC 3036 Appe	endix A - A.1.4 p10	8 Receive Label	Release			
37.10 MUST	Note 1: If should not		g Downstream	n Unsolicited	label distri C to MsgSourc		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP- 37.13		5.10.1 p76 Label Wi endix A.1.5 p110 R					
MUST	An LSR tha	bel Release, t receives a ase message.			must respond	with a	
		use and Execu	•		from forwardi ge (MsgSource	J .	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-38.2	RFC 3036, App	endix A.1.6 p111 R	ecognize New F	EC			
MUST	Independen mapping fr	ing a new FEC t Control, if om the Next F Distribution	E LSR does r Hop for FEC,	not have prev	ownstream Uns iously retain o is not a pe ach Peer.	ed label	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-38.3		pendix A.1.6 p111 R pendix A.1.6 p113 R					
MUST	Independen the Next H	ing a new FEC t Control, if op for FEC, r eer and gener	E LSR has pr repeat LSR I	reviously reta abel Distrib	ownstream Uns ained label m ution procedu ing Event.	apping from	
	should beh		had just re	eceived the la	m the Next Ho abel from the tion mode.		
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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-LDP-42.3	RFC 3036, App	endix A.2.1 p121 S	end_Label				
	FEC, insta Send_Messa label mapp and if LSR marked as	ll label for ge(Peer, Labe ing for FEC w	forwarding/el Mapping, with label a record arn success.	switching use FEC, Label, and attribute of a FEC labe	abel and bind e, execute pr Attributes), s has been se el request fr	ocedure record nt to peer,	
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested
ANVL-LDP-	18.04: pass Debian 12: untested	pass	18.04: pass Debian 12: untested	pass Debian 12: untested	pass Debian 12:	untested Debian 12:	untested Debian 12:
ANVL-LDP- 42.11 MUST	Debian 12: untested RFC 3036, App Send Label	pass Debian 12: untested Dendix A.2.6 p126 C , Send Label d attributes	Debian 12: untested Check_Received_ Request, Ch	pass Debian 12: untested Attributes ack Received	pass Debian 12: pass	untested Debian 12: pass	untested Debian 12:
42.11	Debian 12: untested RFC 3036, App Send Label If receive Detected.	pass Debian 12: untested Dendix A.2.6 p126 C , Send Label d attributes	Debian 12: untested Check_Received_ Request, Ch	pass Debian 12: untested Attributes ack Received	pass Debian 12: pass Attributes	untested Debian 12: pass	untested Debian 12:
42.11	Debian 12: untested RFC 3036, App Send Label If receive Detected. (CRa.1->5) Ubuntu	pass Debian 12: untested Dendix A.2.6 p126 Cooperation of the pass of the pa	Debian 12: untested Check_Received_ Request, Chedo not incl	pass Debian 12: untested Attributes Deck Received Lude Hop Count Ubuntu 18.04:	pass Debian 12: pass Attributes t, return No Ubuntu 18.04:	untested Debian 12: pass Loop Ubuntu 18.04:	Ubuntu 18.04:
42.11 MUST ANVL-LDP-	Debian 12: untested RFC 3036, App Send Label If receive Detected. (CRa.1->5) Ubuntu 18.04: pass Debian 12: untested	pass Debian 12: untested Dendix A.2.6 p126 Cooperation of the pass Ubuntu 18.04: pass	Debian 12: untested Check_Received_ Request, Chedo not incl Ubuntu 18.04: pass Debian 12: untested	pass Debian 12: untested Attributes Deck Received and Hop Count Ubuntu 18.04: pass Debian 12: untested	Debian 12: pass Attributes t, return No Ubuntu 18.04: pass Debian 12:	Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: Debian 12:
42.11 MUST	Debian 12: untested RFC 3036, App Send Label If receive Detected. (CRa.1->5) Ubuntu 18.04: pass Debian 12: untested RFC 3036, App Send Label If receive Max allowa	pass Debian 12: untested Dendix A.2.6 p126 Cooperation The second of	Debian 12: untested Check_Received_ Request, Check_not include Hoge, and received_ and received_ Request, Check_Received_ Check_Received_ Request, Check_not include Hoge, and received_	pass Debian 12: untested Attributes Leck Received Lude Hop Count Ubuntu 18.04: pass Debian 12: untested Attributes Leck Received Count and Hop Count	Debian 12: pass Attributes t, return No Ubuntu 18.04: pass Debian 12: pass	Ubuntu 18.04: untested Loop Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: Debian 12:
42.11 MUST ANVL-LDP- 42.13	Debian 12: untested RFC 3036, App Send Label If receive Detected. (CRa.1->5) Ubuntu 18.04: pass Debian 12: untested RFC 3036, App Send Label If receive Max allowa Vector, re	pass Debian 12: untested Dendix A.2.6 p126 Cooperation The second of	Debian 12: untested Check_Received_ Request, Check_not include Hoge, and received_ and received_ Request, Check_Received_ Check_Received_ Request, Check_not include Hoge, and received_	pass Debian 12: untested Attributes Leck Received Lude Hop Count Ubuntu 18.04: pass Debian 12: untested Attributes Leck Received Count and Hop Count	Debian 12: pass Attributes t, return No Ubuntu 18.04: pass Debian 12: pass Attributes op Count does	Ubuntu 18.04: untested Loop Ubuntu 18.04: untested Debian 12: pass	Ubuntu 18.04: untested Debian 12: Debian 12:





	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-LDP-	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes						
42.15 MUST	Send Label, Send Label Request, Check Received Attributes If received attributes include Hop Count and Hop Count does not exceed Max allowable hop count, and received attributes include Path Vector, and the Path Vector does not include LSR Id, and length of Path Vector does not exceed Max allowable length, return No Loop Detected. (CRa.1->2->3->4->5)						
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	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