



	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR
Commit ID	36a7e78	30283fd	5dff4ec	7a377a 1	85f25d8	33e56da	056c0cd	23db048	ba0d195	b606b4e	c0038fc
Commit Date	2017-11- 08	2017-11- 08	2018-01- 09	2018-03- 12	2018-07- 05	2019-05- 09	2019-05- 13	2019-06- 18	2019-09- 27	2019-10- 15	2020-02- 14
ANVL-	Setup Verif	ication									
MUST	Establia	erificati sh Hello configur	Adjaceno	ey and c	heck tha	t DUT Tra	ansport A	Address			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-	Setup Verif	ication									
LDP-1.2		erificati sh LDP Se									
MUST	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass
ANVL-	Setup Verif	ication									
LDP-1.3		erificati Label Ma		om DUT							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-	Setup Verif	ication									
MUST		erificati sh 2 simu		LDP Se	ssions						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-	Setup Verif	ication									
LDP-1.5		erificati sh 2 LDP		, reque	st Label	Mapping					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3	
ANVL-	Setup Verif	ication										
LDP-1.6		erificati bel Relea		nsolici	ted Labe	l Mapping	9					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL-	Setup Verif	ication										
LDP-1.9	~	Setup Verification Give Label Mapping to DUT										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL-	Setup Verif	ication										
LDP-1.13	Setup Verification Request Label Mapping from DUT for unknown FEC											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL-	Setup Verif	ication										
MUST	_	erificati sh LDP Se		th ANVL	as targe	eted peei	<u>c</u>					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL-	Setup Verif	ication										
MUST	Send un	erificati solicited ten for I	l Label M		to DUT u:	sing Libe	eral Labe	el Retent	ion			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-1.19	Setup Verif	Setup Verification										
MUST		erificati dress Mes		h Addre	ss List '	TLV						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-1.24	_	erificati											
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	Setup Verif	ication											
LDP-1.25		Setup Verification Send DUT labelled data which DUT should not forward											
	Ubuntu 16.04: pass	buntu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL- LDP-2.3	RFC 3036,	s1.2 p6 LDP	Message Ex	xchange									
MUST	When an via the	TC 3036, s1.2 p6 LDP Message Exchange  DP Message Exchange and Structure  then an LSR chooses to establish a session with another LSR learned  that a the Hello message, it uses the LDP initialization procedure over  DP transport.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-2.4	RFC 3036,	s1.2 p6 LDP	Message Ex	xchange									
MAY	Upon su	sage Exch ccessful e LDP pee	completi	on of t	he initia				two				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-2.6	RFC 3036,	s1.2 p6 LDP	Message Ex	xchange									
MUST	The LSR	sage Exch advertis ghbor to	ses a lab	el mapp		neighbor	ring LSR	when it	wishes				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-2.8	-	NEGATIVE RFC 3036, s1.2 p6 LDP Message Exchange											
MUST	LDP uses	sage Exchs the TCEs; i.e.,	transpo	rt for	session,								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL-	RFC 3036,	s1.3 p7 LDP	Message S	tructure			•			•					
MUST	The Val	sage Exchue part one or n	of a TLV-	encoded	object,		for short	t, may it	self						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-3.3		s2.1 p8 FEC s2.1 p8 FEC													
MUST	We say if and of we also only if	P OperationFECs and Label Spaces, Identifiers, Sessions and Transport say that a particular address "matches" a particular address prefix and only if that address begins with that prefix.  also say that a particular packet matches a particular LSP if and ly if that LSP has an Address Prefix FEC element which matches the cket"s destination address.													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-	RFC 3036, s2.1 p9 FECs														
MUST	If a pa	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-3.9	RFC 3036,	s2.1 p9 FEC	s												
MUST	If there	rationH e is no d to one fr e others.	one LSP words the s	hose ma	tching p	refix is	longest,	the pac	ket is	t					
	Ubuntu 16.04: pass	16.04: 16													
ANVL- LDP-3.12	RFC 3036,	RFC 3036, s2.1 p9 FECs													
MUST	A packe	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport A packet may match two LSPs, one with a Host Address FEC element and one with an Address Prefix FEC element; the packet is always assigned to the former.													
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-3.16 MUST	LDP Ope:	s2.2.2 p10 L rationF st four c t be a gl	TECs and octets of	Label S the LD	P Identi:	fier oct	ets ident	ify the		t			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-3.18		C 3036, s2.2.2 p10 LDP Identifiers  P OperationFECs and Label Spaces, Identifiers, Sessions and Transport											
MUST	The last are always (Note:	P OperationFECs and Label Spaces, Identifiers, Sessions and Transport e last two octets of LDP Identifiers for platform-wide label spaces e always both zero.  Dite: this test is only valid for devices with platform-wide label spaces, d as such requires a LAN interface)											
	Ubuntu 16.04: pass	ountu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL- LDP-3.21	RFC 3036, s2.2.4 p11 LDP Transport												
MUST	LDP OperationFECs and Label Spaces, Identifiers, Sessions and Transport LDP uses TCP as a reliable transport for sessions.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-3.23	NEGATIVE RFC 3036,	s2.2.4 p11 L	.DP Transpor	rt									
MUST	When mu	rationF ltiple LI sion for	P sessio	ns are	required					t			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-4.7		RFC 3036, s1.2 p6 LDP Message Exchange RFC 3036, s2.4.1 p12 Basic Discovery Mechanism											
MUST	Discove: presence To engag	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-4.8	RFC 3036,	s1.2 p6 LDP s2.4.1 p12 E s3.10.1 p83	Basic Discove	ery Mechan		Ports							
MUST	This [He the `all LDP Link LDP disc multicas	l routers k Hellos	sage] is on this are sent ort for t	transmi subnet as UDP he "all	tted as a " group of packets routers	multicast addresse on this	cket to t t address ed to the subnet"	well-kn					
	Ubuntu 16.04: passUbuntu passDuntu pass												
ANVL- LDP-4.10	RFC 3036,	FC 3036, s2.4.1 p12 Basic Discovery Mechanism											
MUST	An LDP I	sic and Extended Discovery Mechanisms  LDP Link Hello sent by an LSR carries possibly additional formation. (Receipt of Hello with Transport Address TLV)											
	Ubuntu 16.04: pass												
ANVL- LDP-4.11	RFC 3036, s2.4.1 p12 Basic Discovery Mechanism												
MUST	An LDP 1		o sent b	y an LS	R carries		ssibly ad on Sequen						
	Ubuntu 16.04: pass	16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL- LDP-4.12	NEGATIVE RFC 3036,	s2.4.1 p12 E	Basic Discove	ery Mechan	ism								
MUST	Receipt adjacen	cy" with erface as	OP Link H a potent	ello on ial LDP	an interpeer rea	achable a	entifies at the li er intend	nk level	on				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-4.14		s1.2 p6 LDP s2.4.2 p12 E			chanism								
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 Extended Discovery an LSR periodically sends LDP Targeted Hellos to a specific address.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL-	RFC 3036,	s2.4.2 p12 E	xtended Dis	covery Med	hanism								
MUST	An LDP the lab	nd Extend Targeted el space l informa	Hello se	nt by a	n LSR ca:				for				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-4.19	NEGATIVE RFC 3036, s2.4.2 p12 Extended Discovery Mechanism												
MUST	Extended One LSR	sic and Extended Discovery Mechanisms tended Discovery differs from Basic Discovery in the following ways: e LSR initiates Extended Discovery with another targeted LSR, and e targeted LSR decides whether to respond to or ignore the Targeted											
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036, s2.4.2 p12 Extended Discovery Mechanism												
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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-4.21	RFC 3036,	s2.4.2 p12 E	xtended Dis	covery Med	hanism								
MUST	Extended A targe	nd Extend d Discove ted LSR t d Hellos	ery diffe that choo	ers from ses to	Basic Darespond								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-4.22	_	NEGATIVE RFC 3036, s2.4.2 p13 Extended Discovery Mechanism											
MUST													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-5.1	RFC 3036,	s2.5.1 p13 L	DP Session	Establishm	ent								
MUST	The excl	sion Esta hange of establis	LDP Disc										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-5.5	RFC 3036,	RFC 3036, s2.5.2 p13 Transport Connection Establishment											
MUST	LSR1 (D	DP Session Establishment and Transport Connection Establishment SR1 (DUT) determines the transport addresses to be used at its nd (A1) and LSR2"s end (A2) of the LDP TCP connection.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	s2.5.2 p13 T	ransport Cor	nnection Es	tablishment								
MUST	If LSR2	sion Esta (ANVL) u LSR2 adv	ises the	Transpo	rt Addre	ss option	nal objec	t, A2 is	the				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	s2.5.2 p13 T	ransport Cor	nection Es	tablishment								
MUST	If LSR2	sion Esta (ANVL) ι LSR2 adv	ses the	Transpo	rt Addre	ss option	nal objec	t, A2 is	the				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-5.12	RFC 3036,	s2.5.2 p14 T	ransport Cor	nection Es	tablishment								
MUST	LSR1 (D		rmines wh olishment	ether i by com	t will pi paring a	lay the a ddresses	active or Al and A	passive	role igned				
	Ubuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: pass												
ANVL- LDP-5.13	RFC 3036,	RFC 3036, s2.5.2 p14 Transport Connection Establishment											
MUST	If Al a	sion Esta nd A2 are rable, ar	not in	the sam	e addres	s family,	, they ar	·e					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-5.19	RFC 3036,	s2.5.2 p14 T	ransport Cor	nnection Es	tablishment								
MUST	An LSR I	sion Esta MUST adve se the sa	ertise th	e same	transpor								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-5.20	NEGATIVE RFC 3036,	s2.5.2 p14 T	ransport Cor	nnection Es	tablishment								
MUST	An LSR I	Session Establishment and Transport Connection Establishment LSR MUST advertise the same transport address in all Hellos that vertise the same label space.											
	Ubuntu 16.04: pass	Duntu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL-	RFC 3036,	s2.5.3 p14 S	Session Initia	lization									
MUST	Session Initialization After LSR1 and LSR2 establish a transport connection they negotiate session parameters by exchanging LDP Initialization messages.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	s2.5.3 p15 S	Session Initia	lization									
MUST	The Ini	Initiali tializati s (active r"s (pass	ion messa e LSR"s)	label s	pace and								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.5	NEGATIVE RFC 3036,	NEGATIVE RFC 3036, s2.5.3 p15 Session Initialization											
MUST	The Ini	Initiali tializati s (active r"s (pass	ion messa e LSR"s)	label s	pace and								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-6.6	NEGATIVE RFC 3036,	s2.5.3 p15 S	Session Initia	lization									
MUST	The Ini	Initiali tializati s (active r"s (pass	ion messa e LSR"s)	label s	pace and								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.8	RFC 3036,	s2.5.3 p15 S	Session Initia	lization			-	-		-			
MUST	When LSI Initial: its own	sion Initialization n LSR1 (DUT) plays the passive role and receives an acceptable tialization message, LSR1 replies with an Initialization message of own to propose the parameters it wishes to use and a KeepAlive sage to signal acceptance of LSR2s parameters.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.11	RFC 3036, s2.5.3 p15 Session Initialization												
MUST	When LSI matching	Initiali R1 (DUT) g Hello a ation mes	plays thadjacency	r it sen	ds a Ses	sion Reje	ected/No						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.12	RFC 3036,	s2.5.3 p16 S	Session Initia	lization									
MUST	When LS	Initiali R1 (DUT) ve in res onal from	plays the	its In	itializa <sup>.</sup>				is				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.13	RFC 3036, s2.5.3 p16 Session Initialization												
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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-6.14		s2.5.3 p16 S		lization									
MUST	When LS	Initiali R1 (DUT) ation mes the TCP o	plays the	R2 has									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.15	NEGATIVE RFC 3036,	C 3036, s2.5.3 p16 Session Initialization											
MUST	When LSI Initial	sion Initialization n LSR1 (DUT) plays the active role and if LSR1 does not receive an tialization Message or a Keep Alive from the peer, LSR1 closes ses the TCP connection.											
	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.16	RFC 3036,	RFC 3036, s2.5.3 p16 Session Initialization											
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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.17	RFC 3036,	s2.5.3 p16 S	Session Initia	lization									
MUST	When LS	Initiali R1 (DUT) , LSR2 ha	plays th						pAlive				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-6.19	RFC 3036, s2.5.3 p16 Session Initialization												
MUST	An LSR 1	Initiali must thro tial back AK"d.	ottle its						are				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL-	RFC 3036,	s2.5.3 p16 S	Session Initia	lization									
MUST	The sess Initial: specific attempt	Initiali sion esta ization n c sessior to open ive role.	ablishmen nessage m n establi the sess	ust be shment	delayed : action tl	no less t hat must	than 15 s be delay	seconds. red is th	.e				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	FC 3036, s2.5.4 p18 Initialization State Machine											
MUST		nitialization State Machine and Session Maintainance n state INITIALIZED, action is to transmit Initialization msg (Active											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036, s2.5.4 p18 Initialization State Machine												
MUST	Initialization State Machine and Session Maintainance In state INITIALIZED if LSR receives an acceptable Initialization msg (Passive Role), action is to transmit Initialization msg and KeepAlive msg.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-7.3	RFC 3036,	s2.5.4 p18 lı	nitialization S	state Machi	ne								
MUST	In state	ization S e INITIAI t Error N	IZED if	LSR rec	eives an	y other 1	LDP msg,						
	16.04:   1										Ubuntu 16.04: pass		
ANVL- LDP-7.4	RFC 3036, s2.5.4 p18 Initialization State Machine												
MUST	In state	ization S e OPENREC onal. (DU	if LSR	receive				SP is					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3					
ANVL- LDP-7.5	Initial:	s2.5.4 p18 lization S	State Mac	hine an	d Session			SP is								
111001	Ubuntu 16.04: pass	16.04:     16.04:														
ANVL-	RFC 3036,	s2.5.4 p18 lı	nitialization S	state Machi	ne											
MUST	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 passive)															
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL-	RFC 3036,	s2.5.4 p18 lı	nitialization S	state Machi	ne											
MUST	In state	ization S e OPENREC t Error N active)	if LSR	receive	s any otl	ner LDP m	msg, the									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL- LDP-7.8	RFC 3036,	s2.5.4 p18 lı	nitialization S	state Machi	ne											
MUST	In state	ization S e OPENSEN ion is to	T if LSR	receiv	es an ac	ceptable		zation m	.sg,							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL-	RFC 3036,	s2.5.4 p18 lı	nitialization S	tate Machi	ne											
LDP-7.9	In state	ization S e OPENSEN t Error N	T if LSR	receiv	es any o	ther LDP	msg, the									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL-	RFC 3036, s2.5.4 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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL- LDP-7.12	RFC 3036,	s2.5.4 p18 lı	nitialization S	State Machi	ne									
MUST	In state	ization S e OPERATI n msg and	ONAL if	a timeo	ut occur	s, the ac		to trans	mit					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-7.15	RFC 3036,	s2.5.5 p20 N	/laintaining H	lello Adjace	ncies									
MUST	An LSR	titialization State Machine and Session Maintainance LSR maintains a hold timer with each Hello adjacency which it estarts when it receives a Hello that matches the adjacency.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL-	RFC 3036, s2.5.5 p20 Maintaining Hello Adjacencies													
MUST	If the peer, Li using th	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL-	RFC 3036,	s2.5.5 p20 N	/laintaining H	lello Adjace	ncies									
MUST	When the	ization S e last He tes the I the trar	ello adja LDP sessi	cency fon by s	or a LDP ending a	session	is delet							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-7.18	RFC 3036,	C 3036, s2.5.6 p20 Maintaining LDP Sessions												
MUST	An LSR 1	ization S maintains whenever	s a KeepA	live ti	mer for	each peer	r session		t					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-7.19		s2.5.6 p20 N											
MUST	If the peer the	ization S KeepAlive e LSR cor r has fai rt connec	e timer e ncludes t led, and	expires that the	without : transpo:	receipt ort	of an LDF ction is	bad or t	hat				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-7.21		s2.5.6 p20 N s3.5.4.1 p63											
MUST	After and its peed period												
	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-7.22		s2.5.6 p20 N s3.5.4.1 p63											
MUST	The LSR	ization S may send ive requi	d any pro	tocol m				rement					
	[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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL- LDP-7.23		s2.5.6 p20 N s3.5.4.1 p63												
MUST	After and its peed period of In circum	ization S n LDP ses r receive to ensure umstances peer, it	ssion has an LDP the pee where a	been e PDU fro r resta n LSR h	stablish m it at rts the as no otl	ed, an LS least eve session B her info	SR must a ery Keep <i>R</i> KeepAlive	alive tim e timer.	e					
	Session received provided an LSR I must ar: every Ko circums	palive Tis" resets of on the distance that to allow the distance with the period of the second of the period of th	s a sessi session bw reset ther info at its pe Time per here no c	on Keep TCP con of the ermation er rece riod. A other LD	Alive timection. KeepAlive to commitve an Limy LDP protocome	mer every The Kee e Timer i unicate t DP Messag rotocol r ol messag	y time an epAlive Min circum to an LDE ge from in message was have	LDP PDU Message instances Opeer. It at leavill do b	is s where An LSR st ut, in					
	Ubuntu 16.04: pass	6.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:												
ANVL-	RFC 3036,	RFC 3036, s2.5.6 p20 Maintaining LDP Sessions												
MAY														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-8.5		s2.6.1.1 p21 s2.8.3 p28 D		it Label Dis	tribution Con	itrol								
MAY	When us:	istributi ing inder s to its	endent I	SP cont	rol, eac			se label						
	Label Ma	case of i apping me from its	essage fo	r an FE	C before	receivir								
	Ubuntu 16.04: pass	16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:     16.04:												
ANVL- LDP-8.6	RFC 3036,	s2.6.1.1 p21	Independer	t Label Dis	tribution Con	itrol								
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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-8.20	Label Da When us	s2.6.2.2 p22 istributi ing liber	ion and M	Janageme . retent	nt ion, eve:								
		LSR is re advertis							hop				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-8.21	RFC 3036,	FC 3036, s2.6.2.2 p22-23 Liberal Label Retention Mode											
MUST	When us: a peer :	bel Distribution and Management on using liberal label retention, every label mapping received from seer LSR is retained regardless of whether the LSR is the next hop the advertised mapping. (Known FEC from invalid next hop)											
	Ubuntu 16.04: pass	buntu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL-	RFC 3036,	s2.7 p23 LD	P Identifiers	and Next H	op Addresse	es							
MUST	When the	ntifiers e next ho sed by th	op for a	prefix	changes								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict		
ANVL- LDP-9.4	RFC 3036,	s2.7 p23 LD	P Identifiers	and Next H	op Addresse	es							
MUST	To retr	ntifiers ieve the prefix t	label th	ıe LSR m	ust be al	ble to ma	ap the ne	ext hop a	ddress				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	s2.7 p23 LD	P Identifiers	and Next H	op Addresse	es							
MUST	Similar it must for the	DP Identifiers and Next Hop Addresses imilarly, when the LSR learns a label for a prefix from an LDP peer, t must be able to determine whether that peer is currently a next hop or the prefix to determine whether it needs to start using the newly earned label when forwarding packets that match the prefix.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-9.8	RFC 3036,	s2.7 p24 LD	P Identifiers	and Next H	op Addresse	es							
MUST		ntifiers sends an				rtise its	s address	es to a	peer.				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-9.9	RFC 3036,	3036, s2.7 p24 LDP Identifiers and Next Hop Addresses											
MUST	An LSR :	P Identifiers and Next Hop Addresses LSR sends a Withdraw Address message to withdraw previously vertised addresses from a peer.											
	Ubuntu Ub												
ANVL-	RFC 3036,	s3 p31 Proto	ocol Specifica	ation									
LDP-15.2		l Specifi P PDU car											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-15.3	RFC 3036,	s3 p31 Proto	ocol Specifica	ation						-			
MUST		l Specifi at the me					e related	l to one					
	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict		
ANVL- LDP-15.4	NEGATIVE RFC 3036, s3.1 p31 LDP PDUs												
MUST		rotocol SpecificationPDUs and FEC TLVs ach LDP PDU is an LDP header followed by one or more LDP messages.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL-	RFC 3036,	s3.1 p31-32	LDP PDUs											
MUST	* Version  * PDU Le PDU in of maximum initial: allowab: * LDP Io globall: the LSR The last	6.04: 16.												
ANVL- LDP-15.7 <b>MUST</b>	Protocol Validate An LDP 1 a Type a the Type	RFC 3036, s3.3 p32-33 Type-Length-Value Encoding  Protocol SpecificationPDUs and FEC TLVs  Validate LDP TLV encoding from DUT.  An LDP TLV is encoded as a 2 octet field that uses 14 bits to specify a Type and 2 bits to specify behavior when an LSR doesn"t recognize the Type, followed by a 2 octet Length Field, followed by a variable length Value field.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP- 15.10	RFC 3036,	s2.1 p8 FEC s3.4.1 p34 F s3.4.1 p35 F	EC TLV											
MUST		l Specifi C is spec					EC elemen	nts.						
	items.	A FEC is a list of one or more FEC elements. The FEC TLV encodes FEC items.  Note that this version of LDP supports the use of multiple FEC Elements per FEC for the Label Mapping message only.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	RFC 3036,	s3.4.1 p34-3	5 FEC TLV											
15.11		l Specifi e FEC TLV				Vs								
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL-	RFC 3036,	s3.4.1 p35 F	EC TLV												
LDP- 15.12 <b>MUST</b>	A FEC Education of the FEC FEC Element	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 0x01 No value; i.e., 0 value octets (see below)													
	Prefix 0x02 See below.  Host Address 0x03 Full host address; see below.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	NEGATIVE RFC 3036, s3.4.1 p35 FEC TLV														
15.15 <b>MUST</b>	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	NEGATIVE RFC 3036, s3.4.1 p35 FEC TLV														
15.16 <b>MUST</b>	The Wild	l Specifi dcard FEC elease Me	Element	is to	be used (	only in t			w and						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-		s3.4.1 p35 F s3.5.10.1 p7		draw Mess	age Procedu	ıres									
15.18 <b>MUST</b>	The Wild	l Specifi dcard FEC to all F LV.	Element	indica	tes the	withdraw,									
	Withdra	TLV may w message drawn fro	contain	s an op	tional La	abel TLV	, then th								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL- LDP- 15.19		s3.4.1 p35 F s3.5.10.1 p7		draw Mess	age Procedu	ıres								
MUST		l Specifi dcard FEC					lement in	the FEC	TLV.					
		TLV may			dcard FE	C Element	t; if so,	it may						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	RFC 3036, s3.4.1.1 p37 FEC Procedures													
15.23 SHOULD	If in de Address TLV, abo	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	RFC 3036, s3.4.1.1 p37 FEC Procedures													
15.24 SHOULD	Protocol SpecificationPDUs and FEC TLVs If it encounters a FEC Element type it cannot decode, it should stop decoding the FEC TLV, abort processing the message containing the TLV, and send an "Unknown FEC" Notification message to its LDP peer signaling an error.													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-16.2	RFC 3036,	s3.4.2.1 p37	Generic Lat	oel TLV										
MUST		l Specifi e Generio					Count TI	.Vs						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	NEGATIVE RFC 3036, s3.4.3 p40 Address List TLV													
16.14 MUST	Protocol SpecificationLabel, Address, and Hop Count TLVs The following address encodings are defined by this version of the protocol: Address Family Address Encoding IPv4 4 octet full IPv4 address IPv6 16 octet full IPv6 address													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL- LDP-18.2	RFC 3036,	s3.4.4.1 p40	Hop Count	Procedures											
SHOULD	During for the	nt Proced setup of LSP that the hop o	an LSP a contain	s the H	op Count	TLV. I	f it does	_	_						
	Ubuntu 16.04: pass	16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       pass       pass													
ANVL- LDP-20.1	NEGATIVE RFC 3036,	s3.4.6 p43 S	Status TLV												
MUST	Status TLV Notification messages carry Status TLVs to specify events being signaled.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-	RFC 3036,	s3.4.6 p44 S	Status TLV												
MUST	Status TLV Validate Status TLV encoding from DUT.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-20.4	RFC 3036, s3.4.6 p44 Status TLV														
MUST	Status TLV F bit should be the same as the setting of the F-bit in the Status Code field.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-20.8	RFC 3036,	s3.4.6 p44 S	Status TLV												
SHOULD	Status 'Forward be forward	bit (F-E	Bit)I	f clear	(=0), tl	he notif:	ication s	should no	t						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.4.6 p45 S	Status TLV												
20.12 MUST		TLV ge other onal Para		Jotifica	tion mes	sage may	carry a	Status T	LV as						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL- LDP-21.1	LDP Mes	s3.5 p45 LD sages, No ceipt of r (=0), a	otificati an unkno	on Mess	] message	e, if Unl	known Mes	sage bit	(U)	s					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-21.2	RFC 3036,	s3.5 p45 LD	P Messages	i											
MUST	Upon re	DP Messages, Notification Messages, KeepAlive Messages, Address Messages pon receipt of an unknown [LDP] message, if Unknown Message bit (U)is set (=1), the unknown message is silently ignored.													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-	RFC 3036,	s3.5.1 p45 N	Notification M	lessage											
LDP-21.5		LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Validate Notification Message TLV encoding from DUT													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.5.4 p63 k	GeepAlive Me	essage											
21.11		sages, No e KeepAli				epAlive N	Messages,	Address	Message	S					
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.5.5 p64 A	Address Mes	sage											
21.13		sages, No e Address					Messages,	Address	Message	S					
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036, s3.5.5.1 p65 Address Message Procedures														
21.14 SHOULD	When a noor Labe	sages, No new LDP s l Request es with o	session i message	s initi s an LS	alized an R should	nd before advertis	e sending	g Label M		s					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL- LDP-	RFC 3036,	s3.5.5.1 p65	Address Me	ssage Pro	cedures										
21.15 <b>SHOULD</b>	Wheneve:	sages, No r an LSR se the ne	"activat	es" a n	ew inter	face addı	ress, it		Message	S					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.5.5.1 p65	Address Me	ssage Pro	cedures										
21.16 <b>SHOULD</b>	Whenever should	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Whenever an LSR "de-activates" a previously advertised address, it should withdraw the address with an Address Withdraw message; see Section "Address Withdraw Message".  Ubuntu													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.5.5.1 p65	Address Me	ssage Pro	cedures										
21.17 MUST	If an Li List TL	sages, No SR does r V, it sho LDP signa	ot suppo ould send	rt the an "Un	Address l supported	Family sp d Address	pecified Family"	in the A Notific	ddress	s					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-	RFC 3036,	s3.5.6 p65 A	ddress With	draw Mess	age										
LDP- 21.18	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Validate Address Withdraw Message format from DUT.														
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-22.1	RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage										
MUST	Malform	Signaled ed LDP PI sm are ha	Us or Me	ssages	that are	part of		Discover	У						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-	RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message														
MUST	Malform	Signaled ed LDP PI sm are ha	Us or Me	ssages	that are	part of									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL-	RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage								
MUST	An LDP malform	Signaled PDU recei ed if (1) eiver ier Statu	lved on a The LDF This is	TCP co Identi	nnection fier in	for an 1 the PDU 1	neader is	unknown	to				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-22.4	RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage								
MUST	An LDP malformed is not a peer for												
	Ubuntu 16.04: pass												
ANVL-	RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message												
MUST	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 passive role)												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-22.6	NEGATIVE RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage								
MUST	An LDP malformereceives	Signaled PDU recei ed if: (2 r, or it sion duri d by the	lved on a 2) The LI is suppo ing sessi	TCP co P proto orted bu on esta	nnection col vers: t is not blishmen	for an lion is no the vers	ot suppor sion nego is a fat	ted by totiated f	or				
	UbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntu16.04:16.04:16.04:16.04:16.04:16.04:16.04:16.04:16.04:16.04:passpasspasspasspasspasspasspasspasspasspass												
ANVL- LDP-22.8	RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message												
MUST	An LDP malform	Signaled PDU recei ed if: (2 rThis Status (	lved on a 2) The LD s is a fa	TCP co P proto tal err	nnection col vers: or signa	for an lion is no led by the	ot suppor	ted by t	he				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-22.9	NEGATIVE RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage								
MUST	An LDP I	Signaled PDU recei ed if: (3 a fatal	ved on a	TCP co U Lengt	nnection h field :	for an I is too sr	mall ( 14	.)					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	NEGATIVE RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message												
22.10 <b>MUST</b>	An LDP be malformed PDU length	Events Signaled by Notification Messages on LDP PDU received on a TCP connection for an LDP session is nalformed if: (3) The PDU Length field istoo large (> maximum DDU length). This is a fatal error signaled by the Bad PDU Length Status Code. (PDU contains random data)											
	Ubuntu 16.04: passUbuntu passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: pass												
ANVL- LDP-	NEGATIVE RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message												
22.11 <b>MUST</b>	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 Mapping messages)												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	NEGATIVE RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message												
22.12 <b>MUST</b>	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3					
ANVL- LDP-	NEGATIVE RFC 3036,	3.5.1.2.1 p4	9 Malformed	PDU or Me	essage											
22.13 MUST	An LDP I the Mess signaled	Signaled Message i sage Type d by the x8000 (hi	ls malfor e is 0x8 Unknown	med if: 8000 (hi Message	(1) The gh order Type Sta	Message bit = 0 atus Code	) it is a e. If the	n error Message								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL- LDP-	-	NEGATIVE RFC 3036, 3.5.1.2.1 p49 Malformed PDU or Message														
22.15 MUST	Events Signaled by Notification Messages An LDP Message is malformed if: (3) The message is missing one or more Mandatory Parameters. This is a non-fatal error signalled by the Missing Message Parameters Status Code.															
	Ubuntu 16.04: pass	16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:														
ANVL- LDP-	RFC 3036, 3.5.1.2.2 p50 Unknown or Malformed TLV															
22.16 <b>MUST</b>	Events Signaled by Notification Messages Malformed TLVs contained in LDP messages that are part of the LDP Discovery mechanism are handled by silently discarding the containing message.															
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL- LDP-	RFC 3036,	3.5.1.2.2 p5	0 Unknown o	or Malforme	d TLV											
22.17 MUST	A TLV co	Signaled ontained malformedes that the This i	in an LI d if: (1) the TLV e	P messa The TL extends	ge recei <sup>.</sup> V Length	ved on a is too i he end of	large, th f the con	at is, itaining								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					
ANVL- LDP-	RFC 3036,	3.5.1.2.2 p5	0 Unknown o	or Malforme	d TLV											
22.18 MUST	A TLV con LDP is to 0x8000 Status	Signaled ontained malformed (high ord Code. If ntly drop	in an LI d if: (2) der bit ( f the TLV	P messa The TL ) it is	ge receiv V type is an erro	ved on a s unknown r signale	n. If the	e TLV ty Unknown	pe is TLV							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass					





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL- LDP-		3.5.1.2.2 p5				-									
22.19 <b>MUST</b>	A TLV con LDP is the reconstruction temporal contents of the c	Code . Ubuntu													
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				
ANVL- LDP-	RFC 3036,	RFC 3036, s3.5.1.2.3 p48 Session KeepAlive Timer Expiration													
22.20 MUST	Events Signaled by Notification Messages Timer expiration is a fatal error signaled by the KeepAlive Timer Expired Status Code.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	RFC 3036, s3.5.1.2.4 p51 Unilateral Session Shutdown													
22.21 MUST	Events Signaled by Notification Messages This is a fatal event signaled by the Shutdown Status Code. The Notification Message may optionally include an Extended Status TLV to provide a reason for the Shutdown. The sending LSR terminates the session immediately after sending the Notification.														
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-	RFC 3036,	s3.5.1.2.7 pt	51 Internal E	rrors											
22.23 MUST	An LDP : specific implement implement	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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-23.1	RFC 3036,	s3.5.2 p52 H	lello Messag	es											
MUST		Hello Messages Validate Hello Messages encoding from DUT													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-23.3	RFC 3036,	s3.5.2 p52 H	lello Messag	jes			-						
MUST	RFC 3036, s3.5.2 p52 Hello Messages  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 Ubuntu Ubuntu Ubuntu Ubuntu Ubuntu Ubuntu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: pass pass pass pass pass pass pass pas												
	16.04:       16.04:												
ANVL- LDP-23.4	RFC 3036,	s3.5.2 p52 H	łello Messag	jes									
MUST	Hold Tir	ld Time: A value of 0 means use the default, which is 45 seconds for rgeted Hellos.  buntu Ubuntu 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
	16.04:	JbuntuUbuntuI6.04:16.04:16.04:16.04:16.04:passpasspasspasspasspasspasspasspasspasspasspass											
ANVL-													
LDP-23.8	Reserved - This field is reserved. It must be set to zero on												
	16.04:	16.04:	16.04:	16.04:	16.04:	16.04:	16.04:	16.04:	16.04:	16.04:	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036,	s3.5.2 p52 H	lello Messag	jes									
23.10 MAY	Optional unsigned configur	l TLV Cor d configu ration st	ration state of t	sequence the send	number ing LSR.	that ider Used by	ntifies t y the rec	he					
	Ubuntu 16.04: passUbuntu pass												
ANVL- LDP-	RFC 3036,	RFC 3036, s3.5.2.1 p54 Hello Message Procedures											
23.13 <b>MUST</b>	We recor	Hello Messages We recommend that the interval between Hello transmissions be at most one third of the Hello hold time.											
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL- LDP-	NEGATIVE RFC 3036,	s3.5.2.1 p54	Hello Messa	age Proced	ures									
23.14 <b>MUST</b>			.lo Messa	ge Step	2: If t	he Hello	is not a	ıcceptabl	e, the					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	NEGATIVE RFC 3036,	s3.5.2.1 p54	Hello Messa	age Proced	ures									
23.16 <b>MUST</b>	Hello Messages A Link Hello is acceptable if the interface on which it was received has been configured for label switching.													
	Ubuntu 16.04: pass	16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:												
ANVL-	RFC 3036,	s3.5.3 p55 lı	nitialization N	lessage										
MUST		Initialization Messages Validate Initialization Messages encoding from DUT												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL-	RFC 3036, s3.5.3 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 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL-	RFC 3036,	s3.5.3 p57 lı	nitialization N	lessages										
MUST	D, Loop	ization M Detection is enabl	n - Indi	cates w	hether lo	oop deted loop det	ction bas tection i	sed on pa s disabl	th ed.					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-	RFC 3036,	s3.5.3 p57 lı	nitialization N	lessages										
24.10 MUST	PVLim, 1	ization M Path Vect 0 if loc	or Limit				um path v	rector le	ngth.					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3	
ANVL- LDP- 24.14	Initial: Reserved	s3.5.3 p57 li ization M d - This ssion and	Messages field is	reserv		must be s	set to ze	ero on				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-	RFC 3036,	s3.5.3 p57 li	nitialization N	/lessages				-	-			
24.15 MUST	Max PDU allowab	ization M Length - le length es the de	- Two oct n for LDF	PDUs f	or the se	ession.	A value					
	Ubuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: pass											
ANVL- LDP-	RFC 3036,	s3.5.3 p57 li	nitialization N	/lessages								
24.19 <b>MUST</b>	Initialization Messages Receiver LDP Identifier - If there is no matching Hello adjacency, the LSR must send a Session Rejected/No Hello Notification message in response to the Initialization message and not establish the session. (Receiver LDP ID: incorrect LSR Id, correct label space)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-	RFC 3036,	s3.5.3 p57 li	nitialization N	lessages								
24.20 MUST	Received LSR must response	ization M r LDP Ide t send a e to the er LDP II	entifier Session Initiali	Rejecte zation	d/No Heli message a	lo Notifi and not e	ication m establish	nessage in the ses	n.			
	Ubuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: passUbuntu 16.04: pass											
ANVL- LDP-26.7	RFC 3036, s3.5.7.1 p67 Label Mapping Message Procedures											
MUST	Label Mapping Messages An LSR receiving a Label Mapping message from a downstream LSR for a Prefix or Host Address FEC Element should not use the label for forwarding unless its routing table contains an entry that exactly matches the FEC Element.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3				
ANVL- LDP-26.8 <b>MUST</b>	Label Ma An LSR of mode ser	s3.5.7.1.1 postage sing table	essages ed for In	depende	nt Contro	ol and Do SR recogn	ownstream	unsolic new FEC v	ited ia the						
	Ubuntu 16.04: pass	16.04:       16.04:													
ANVL- LDP- 26.11	RFC 3036, s3.5.7.1.1 p67 Independent Control Mapping  Label Mapping Messages  An LSR configured for Independent Control sends a mapping message when when the attributes of a mapping change.														
	Ubuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILUbuntu 16.04: FAILFAILFAILFAILFAILFAIL														
ANVL- LDP- 26.12	RFC 3036, s3.5.7.1.1 p67 Independent Control Mapping  Label Mapping Messages  An LSR configured for Independent Control sends a mapping message when receiving a mapping from the downstream next hop and no upstream mapping has been created.														
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL- LDP-27.7 SHOULD	Label Ro The reco Label Mo indicat	s3.5.8.1 p71 equest Me eiving LS apping fo	essages ER should or the re	respon quested satisf	d to a La label o y the rec	abel Requ r with a quest.	Notifica	tion mes	sage	I lle contro	I lb				
ANVL-	Ubuntu 16.04: pass	Ubuntu 16.04: pass s3.5.8.1 p71	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
LDP-27.8	RFC 3036,  Label Ro When the a Host is to deter that examust res  A Notifi	RFC 3036, s3.5.8.1 p71 Label Request Message Procedures  RFC 3036, s3.5.8.1 p71 Label Request Message Procedures  Label Request Messages  When the FEC for which a label is requested is a Prefix FEC Element or a Host Address FEC Element, the receiving LSR uses its routing table to determine its response. Unless its routing table includes an entry that exactly matches the requested Prefix or Host Address, the LSR must respond with a No Route Notification message.  A Notification message that signals a request cannot be satisfied contains one of the following Status Codes: (1) No Route.													
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL				





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP- 28.12	Label A	s3.5.10 p74 bort Requ	ıest Mess	sages, L	abel Witl			abel Rel	ease Mes	sages			
MUST	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP- 28.15	RFC 3036, s3.5.10.1 p75 Label Withdraw Message Procedures RFC 3036, Appendix A.1.14 p120 LSR decides to no longer label switch a FEC  Label Abort Request Messages, Label Withdraw Messages, Label Release Messages An LSR transmits a Label Withdraw message under the following conditions: (1) The LSR no longer recognizes a previously known FEC for which it has advertised a label; (2) The LSR has decided unilaterally (e.g., via configuration) to no longer label switch a FEC (or FECs) with the label mapping being withdrawn.  When LSR unilaterally decides (or is re-configured) to no longer label switch a particular FEC, Execute procedure Send_Label_Withdraw (Peer, FEC, PrevAdvLabel)												
MUST													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP- 28.19 MUST	RFC 3036, s3.5.10.1 p76 Label Withdraw Message Procedures  Label Abort Request Messages, Label Withdraw Messages, Label Release Messages The FEC TLV may contain the Wildcard FEC Element; if so, it may contain no other FEC Elements. In this case, ifthere is not an optional Label TLV in the Label Withdraw message, then the sending LSR is withdrawing all label mappings previously advertised to the receiving LSR.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036,	s3.5.11 p76	Label Relea	se Messag	е								
28.21		bort Requ e Label F						abel Rel	ease Mes	sages			
MUST	Validate Label Release Message encoding from DUT  Ubuntu Ubuntu 16.04: pass pass pass pass pass pass pass pas												
ANVL- LDP- 28.22	Label Al	s3.5.11 p77 bort Requ e optiona	ıest Mess	ages, L	abel Witl				ease Mes	sages			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3	
ANVL- LDP- 28.23	Label Al	s3.5.11.1 p7 bort Requ must tran ng condit	ıest Mess ısmit a I	ages, L abel Re	abel Witl lease me	hdraw Mes	der any c	f the	ease Mes	sages		
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP- 28.26 MUST	RFC 3036, s3.5.11.1 p77 Label Release Message Procedures  Label Abort Request Messages, Label Withdraw Messages, Label Release Messages Note that if an LSR is configured for "liberal mode", a Release message will never be transmitted in the case of condition (1) as specified above. In this case [LSR which sent the label mapping is no longer the next hop for the mapped FEC], the upstream LSR keeps each unused label, so that it can immediately be used later if the downstream peer becomes the next hop for the FEC.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP- 28.27 MUST	Label Al Note that message as spec- from an keeps ea	at if an will new ified abo LSR whic	LSR is over be trove. In the contract of the c	ages, L configur ansmitt this ca the ne so tha	abel With ed for " ed in the se [LSR: xt hop for t it can	hdraw Mes liberal r e case of receives or the FI immediat	mode", a f conditi a label EC], the tely be u	16.04: 16.04: pass pass  abel Release Messages Release on (2)	sages			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-31.1	NEGATIVE RFC 3036,	s3.10.1 p83	Well-known	Numbers/U	DP and TCF	Ports						
MUST		Well-known Numbers, Name Spaces The UDP port for LDP Hello messages is 646										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-31.2	RFC 3036, s3.10.1 p83 Well-known Numbers/UDP and TCP Ports  Well-known Numbers, Name Spaces The TCP port for establishing LDP session connections is 646											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-32.1		s5.1 p86 Sp s5.3 p87 De		ce									
MUST	An LSR G	y Conside can reduc ellos onl y connect	ce the they on int										
	attacks (1) Well address the LSR	vides two : l known t the thre is direc tiate suc	JDP Port eat of Do	for LDP S attac ected o	Discove: ks via B	ry. An l asic Hell	LSR admir los by er	nistrator nsuring t	hat				
	Ubuntu 16.04: pass	04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL- LDP-32.4	NEGATIVE RFC 3036,	s5.1 p86 Sp	oofing										
MUST	An LSR of them and	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list. (DUT is passive for session establishment)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-32.5	RFC 3036,	s5.1 p86 Sp	oofing										
MUST	An LSR of them and	y Conside can reduc d accepti list. (DU	ce the th ng only	those o	riginati	ng at sou	ırces per						
	Ubuntu 16.04: pass	16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04: 16.04:											
ANVL- LDP-32.6	RFC 3036, s5.1 p86 Spoofing												
MUST	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3			
ANVL- LDP-32.7	NEGATIVE RFC 3036,	s5.1 p86 Sp	oofing											
MUST	An LSR	y Conside can reduc d accepti list.	e the th											
	Ubuntu 16.04: FAIL	6.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       16.04:       pass												
ANVL- LDP-	NEGATIVE RFC 3036,	IEGATIVE RFC 3036, s5.1 p86 Spoofing												
32.10 MUST	An LSR	ecurity Considerations n LSR can reduce the threat of spoofed Basic Hellos by ignoring Basic ellos not addressed to the All Routers on this Subnet multicast												
	Ubuntu 16.04: pass	Ubuntu 16.04:         Ubuntu 1												
ANVL- LDP-33.4		Appendix A.	<u> </u>	eive Label F	Request									
MUST	If there	Label Re e is no N rce, No R	Iext Hop,	Execut	e proced	ure Send_	_Notifica	ition						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
ANVL- LDP-34.2	RFC 3036,	Appendix A.	1.2 p99 Rec	eive Label I	Mapping									
MUST	Receive Label Mapping Part One If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR does not have a previously received label mapping for FEC from MsgSource for the LSP in question, and the MsgSource is not the Next Hop for the FEC, and LSR is using liberal label retention, record label mapping for FEC with label and received attributes from MsgSource. (LMp.1->3->9->11->12->13->33)													
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3
ANVL- LDP-34.3	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping  Receive Label Mapping Part One If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR does not have a previously received label mapping for FEC from MsgSource for the LSP in question, and the MsgSource is the Next Hop for the FEC, and LSR is not ingress for FEC, and for each peer that LSR has previously sent a label mapping for FEC for the LSP in question, and for each peer that received attributes in the received label mapping are not consistent with those previously sent, and for each peer that LSR does not have any pending label requests for FEC, record label mapping for FEC with label and received attributes from MsgSource, and send a label mapping to peer and update record of label mapping for FEC previously sent to peer to include the new attributes sent, and perform LSR Label Use procedure. (LMp.1->3->9->11->12->14->16->17->18->22->23->24->25->26->27->28-> 30->31->33)										
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL- LDP-34.5 <b>MUST</b>	Receive If the request and LSR MsgSourc for the LSR has question no labe mapping and peri	Receive Label Mapping Part One  If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR does not have a previously received label mapping for FEC from MsgSource for the LSP in question, and the MsgSource is the Next Hop for the FEC, and LSR is not ingress for FEC, and for each peer that LSR has not previously sent a label mapping for FEC for the LSP in question, and if DU ordered control is not in use by LSR, and LSR has no label requests for FEC from peer marked as pending, record label mapping for FEC with label and received attributes from MsgSource, and perform LSR Label Use procedure.  (LMp.1->3->9->11->12->14->16->17->18->19->28->30->31->33)									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL- LDP- 34.11 <b>MUST</b>	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping  Receive Label Mapping Part One If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR has a previously received label mapping for FEC from MsgSource for the LSP in question, and the label previously received from MsgSource does not match label received in message, execute procedure Send_Message(MsgSource, Label Release, FEC, Label). (LMp.1->3->9->10->32->33)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3	
ANVL-	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping											
LDP- 34.13 <b>MUST</b>	If the request and LSR MsgSource from Msg MsgSource label reattribut	received for FEC does hav ce for th gSource m ce is not etention, tes from	previous ve a prev ne LSP in matches l the Nex	apping dely sent viously a questi abel ret Hop fabel mee.	to MsgS received on, and ceived is or the F apping fo	match an ource, an label ma the labe n the mes EC, and l or FEC w	nd no loc apping fo l previou ssage, ar LSR is us	op detect or FEC fr asly rece ad the sing libe	ed, om ived ral			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL- LDP-	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping											
34.14 <b>MUST</b>	If the request and LSR for the MsgSourd the Next peer the in quest received and for FEC attribut record onew attributed to the second of the s	received for FEC has a pr LSP in o ce matche t Hop for at LSR ha tion, and d label m each pee , record tes from of label ributes s >3->9->10	previous reviously question, es label the FEC as previously for each apping a per that I label ma MsgSource mapping sent, and b->11->12	apping dely sent receive and the receive and Lously seed peer are not ask does apping for for FEC perfor and	to MsgSred label a label of in the SR is no nt a label that reconsisted not have send a label previoum LSR Label 6->17->1	match an ource, ar mapping previous: message tingress el mappine eived attent with the any perith label mappingsly sent bel Use 18->22->23	nd no loo for FEC ly receiv , and the s for FEC ributes those pre- nding lak l and receiving to peer to peer procedure 3->24->25	pp detect from Msg yed from MsgSour C, and fo C for the in the eviously bel requered beer and to include.	ed, Source  ce is reach e LSP  sent, sts  update de the ->28->			
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	
ANVL-	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping											
1DP- 34.16 MUST	If the request and LSR for the MsgSourd the Next peer the LSP in CLSR has label msgSourd	Receive Label Mapping Part One If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR has a previously received label mapping for FEC from MsgSource for the LSP in question, and the label previously received from MsgSource matches label received in the message, and the MsgSource is the Next Hop for the FEC, and LSR is not ingress for FEC, and for each peer that LSR has not previously sent a label mapping for FEC for the LSP in question, and if DU ordered control is not in use by LSR, and LSR has no label requests for FEC from peer marked as pending, record label mapping for FEC with label and received attributes from MsgSource, and perform LSR Label Use procedure. (LMp.1->3->9->10->11->12->14->16->17->18->19->28->30->31->33)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL-	RFC 3036, Appendix A.1.2 p99 Receive Label Mapping												
LDP- 34.23 <b>MUST</b>	If the reconstruction for the FEC, and previous for each are not LSR does outstand and reconstruction for the feet and peer and peer to procedure.	>2->3->9-	label masent to Manager to Manage	apping management of the service of	e, and no label maje MsgSoure, and for FEC, and for FEC ributes reviously abel requested abource, mapping tes sent	o loop de pping for ree is the for the in the rey sent, a uests for abel mappend and send for FEC, and per	etected, r FEC from ne Next H ch peer t LSP in opeceived l and for e r FEC, de ping for d a label previous rform LSF	and LSR om MsgSou lop for the LSR question, abel map each peer flete rec FEC with mapping sly sent Label U	does rce he has and ping that ord of label to to				
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL		
ANVL- LDP-	NEGATIVE RFC 3036 Appendix A - A.1.2 p104 Receive Label Mapping												
35.18 MUST	Note 4: peer wo	Receive Label Mapping Part Two Note 4: An unsolicited mapping with a different label from the same peer would be an attempt to establish multipath label switching, which is not supported in this version of LDP.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036, Appendix A.1.4 p107 Receive Label Release												
MUST	Receive Label Release, Receive Label Withdraw  If LSR receives a Label Release (that does not match any outstanding Label Withdraws) and LSR is the egress and is not merging, then Remove Label from forwarding/switching use for traffic from MsgSource and if any peers do not still hold the label, free the label.  LR1.1->2->4->6->10->11->12->13												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036,	Appendix A.	1.4 p107 Re	ceive Labe	l Release								
MUST	If LSR that Label Withe LSR from for peers do	Label Rereceives ithdraws is not crwarding not sti	a Label and LSF configure switchin ll hold	Release is not d to pr ng use f the lab	that determined the the egree or traffeel, free	oes not ress and releases ic from N	is not me , then Re MsgSource	erging, a emove Lab	nd el				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL- LDP-	RFC 3036 Appendix A - A.1.4 p108 Receive Label Release												
37.10 <b>MUST</b>	Receive Label Release, Receive Label Withdraw Note 1: If LSR is using Downstream Unsolicited label distribution, it should not re-advertise a label mapping for FEC to MsgSource until MsgSource requests it.												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036, s3.5.10.1 p76 Label Withdraw Message Procedures RFC 3036, Appendix A.1.5 p110 Receive Label Withdraw												
37.13 <b>MUST</b>	Receive Label Release, Receive Label Withdraw An LSR that receives a Label Withdraw message must respond with a Label Release message.												
	switchi	ceiving a ng use ar , FEC, La	nd Execut					_	el				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-	RFC 3036, Appendix A.1.6 p111 Recognize New FEC												
MUST	When leading mapping LSR Labe	Recognize New FEC When learning a new FEC while configured for Downstream Unsolicited Independent Control, if LSR does not have previously retained label mapping from the Next Hop for FEC, and Next Hop is not a peer, repeat LSR Label Distribution procedure (FEC.1) for each Peer. (FEC.1->2->3->6)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-38.3		Appendix A. Appendix A.											
MUST	Recognize New FEC When learning a new FEC while configured for Downstream Unsolicited Independent Control, if LSR has previously retained label mapping from the Next Hop for FEC, repeat LSR Label Distribution procedure (FEC.1) for each Peer and generate Received Label Mapping Event. (FEC.1->2->5->6)												
	should l	If the I behave as curs in t	s if it h	ad just	receive	d the lab	oel from	the Next					
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Releas e 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Dev 7.2 2019- 09-26	Release 7.2	Release 7.3		
ANVL-	RFC 3036, Appendix A.2.1 p121 Send_Label												
MUST	If the I FEC, ins Send_Mes label ma and if I marked a	pel, Send LSR has a stall lab ssage(Pee apping fo LSR does as pendin 2->3->4->	label to bel for fer, Label or FEC winot have	o alloc orwardi Mappin th labe a reco n succe	ate, allong/switch g, FEC, l l and attributed and attributed and attributed at the second at the sec	ocate lab ning use Label, At tributes	oel and b , execute tributes has been	pind it to procedus), recor	re d peer,				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes												
42.11		oel, Send ived attr											
MUST	Detected (CRa.1-							-					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes												
42.13 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 do not include Path Vector, return No Loop Detected. (CRa.1->2->3->5)												
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL- LDP-	RFC 3036,	Appendix A.:	2.6 p126 Ch	eck_Receiv	ed_Attribute	S							
42.15 <b>MUST</b>	If recess Max allowand the does not	pel, Send ived attr pwable ho Path Vec c exceed >2->3->4-	ributes i p count, tor does Max allo	nclude and re not in	Hop Count ceived at clude LSI	t and Hor ttributes R Id, and	o Count d s include d length	does not Path Ve of Path	ctor,				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		