



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14			
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR			
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7c0c85a	5b8b08d	7a377a1	6са96сс			
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-01-17	2018-02-07	2018-03-12	2018-03-15			
ANVL-LDP-1.1	Setup Verification	Setup Verification										
MUST	Establish Hel	Setup Verification Establish Hello Adjacency and check that DUT Transport Address Natches configured value										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass							
ANVL-LDP-1.2	Setup Verification				•	•		-				
MUST		etup Verification stablish LDP Session										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass							
ANVL-LDP-1.3	Setup Verification				-	•		-				
MUST	Setup Verific Request Label		om DUT									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass							
ANVL-LDP-1.4	Setup Verification											
MUST	Setup Verific Establish 2 s		LDP Sessions									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass							
ANVL-LDP-1.5	Setup Verification											
MUST	Setup Verification Establish 2 LDP Sessions, request Label Mapping											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass							





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ANVL-LDP-1.6	Setup Verification												
MUST	Setup Verific Send Label Re		nsolicited Labe	el Mapping									
	Ubuntu 16.04: pass												
ANVL-LDP-1.9	Setup Verification												
MUST	Setup Verific Give Label Ma		7										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-1.13	Setup Verification												
MUST	Setup Verific Request Label		om DUT for unki	nown FEC									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-1.14	Setup Verification												
MUST	Setup Verific Establish LDP		th ANVL as targ	geted peer									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-1.16	Setup Verification												
MUST	Send unsolici	tup Verification nd unsolicited Label Mapping to DUT using Liberal Label Retention d listen for Label Release.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								





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ANVL-LDP-1.19	Setup Verification												
MUST	Setup Verific Send Address		n Address List	TLV									
	Ubuntu 16.04: pass												
ANVL-LDP-1.24	Setup Verification	tup Verification											
MUST		up Verification A DUT labelled data which DUT should forward											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-1.25	Setup Verification												
MUST	Setup Verific Send DUT labe		nich DUT should	d not forward									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-2.3	RFC 3036, s1.2 p6	LDP Message Exc	change										
MUST		hooses to es message, it	stablish a sess		her LSR learne n procedure ov								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Exc	change										
MAY	Upon successf	DP Message Exchange and Structure pon successful completion of the initialization procedure, the two SRs are LDP peers, and may exchange advertisement 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				





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ANVL-LDP-2.6	RFC 3036, s1.2 p6	LDP Message Ex	change										
MUST	LDP Message E The LSR adver the neighbor	tises a labe	el mapping to a	a neighboring :	LSR when it wi	shes							
	Ubuntu 16.04: pass												
ANVL-LDP-2.8	NEGATIVE RFC 3036, s1.2 p6	LDP Message Ex	change										
MUST		TCP transpor	Structure of for session of thing but the										
	Ubuntu 16.04: pass												
ANVL-LDP-2.9	RFC 3036, s1.3 p7	LDP Message Str	ucture										
MUST		t of a TLV-e	Structure encoded object . (DUT Receivin		hort, may itse	lf							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, s2.1 p8 RFC 3036, s2.1 p8												
MUST	We say that a if and only i We also say tonly if that	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 y if that LSP has an Address Prefix FEC element which matches the ket"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				





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ANVL-LDP-3.8	RFC 3036, s2.1 p9	FECs										
MUST		atches multi	iple LSPs, it :	Identifiers, Sois mapped to the		ansport						
	Ubuntu 16.04: pass											
ANVL-LDP-3.9	RFC 3036, s2.1 p9	FECs										
MUST	If there is n	o one LSP when the se	nose matching p	Identifiers, Soprefix is longous matching pro	est, the packe	t 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			
ANVL-LDP-3.12	RFC 3036, s2.1 p9	FECs										
MUST	A packet may	match two LS ddress Prefi	SPs, one with a	Identifiers, So a Host Address ; the packet i	FEC element a	nd						
	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-3.16	RFC 3036, s2.2.2 p	10 LDP Identifiers			-							
MUST	The first fou	OperationFECs and Label Spaces, Identifiers, Sessions and Transport first four octets of the LDP Identifier octets identify the LSR must be a globally unique value, such as a 32-bit router Id 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			





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ANVL-LDP-3.18	RFC 3036, s2.2.2 p	10 LDP Identifiers											
MUST	The last two are always bo	octets of LI th zero. est is only	OP Identifiers valid for devi	Identifiers, So for platform-vices with plat	wide label spa	ces							
	Ubuntu 16.04: pass												
ANVL-LDP-3.21	RFC 3036, s2.2.4 p	11 LDP Transport											
MUST			Label Spaces, I Le transport fo	Identifiers, Sor sessions.	essions and Tr	ansport							
	Ubuntu 16.04: pass												
ANVL-LDP-3.23	NEGATIVE RFC 3036, s2.2.4 p	11 LDP Transport											
MUST		LDP session	ns are required	Identifiers, Sold between 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				
ANVL-LDP-4.7	RFC 3036, s1.2 p6 RFC 3036, s2.4.1 p												
MUST	Discovery mes presence in a To engage in	ic and Extended Discovery Mechanisms covery messages provide a mechanism whereby LSRs indicate their sence in a network by sending a Hello message periodically. engage in LDP Basic Discovery on an interface an LSR periodically ds 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				





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ANVL-LDP-4.8 MUST	RFC 3036, s1.2 p6 RFC 3036, s2.4.1 p RFC 3036, s3.10.1	12 Basic Discover		P Ports								
	This [Hello m the `all rout LDP Link Hell LDP discovery multicast add	essage] is ters on this os are sent port for thress.	subnet" group as UDP packets	a UDP packet multicast add s addressed to s on this subn	the well-know							
	Ubuntu 16.04: pass											
ANVL-LDP-4.10	RFC 3036, s2.4.1 p	12 Basic Discover	y Mechanism									
MUST	An LDP Link H	ic and Extended Discovery Mechanisms LDP Link Hello sent by an LSR carries possibly additional ormation. (Receipt of Hello with Transport Address 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			
ANVL-LDP-4.11	RFC 3036, s2.4.1 p	12 Basic Discover	y Mechanism									
MUST	An LDP Link H	ello sent by		es possibl	y additional quence Number)							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-4.12	NEGATIVE RFC 3036, s2.4.1 p	12 Basic Discover	ry Mechanism									
MUST	Receipt of an adjacency" wi	ic and Extended Discovery Mechanisms eipt of an LDP Link Hello on an interface identifies a "Hello acency" with a potential LDP peer reachable at the link level on interface as well as the label space the peer intends to use for 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			





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ANVL-LDP-4.14		3036, s1.2 p6 LDP Message Exchange 3036, s2.4.2 p12 Extended Discovery Mechanism											
MUST	Discovery mes presence in a To engage in	sages provio network by LDP Extended	sending a Heli	whereby LSRs lo message per LSR periodica	iodically.								
	Ubuntu 16.04: pass												
ANVL-LDP-4.16	RFC 3036, s2.4.2 p	12 Extended Disc	overy Mechanism										
MUST	An LDP Target	ed Hello ser ce the LSR i		s arries the LDP and possibly		r							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p	12 Extended Disc	overy Mechanism										
MUST	Extended Disc One LSR initi	overy differ ates Extende	ed Discovery w	s Discovery in thith another ta: spond to or ign	rgeted LSR, an	d							
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	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				
ANVL-LDP-4.20	RFC 3036, s2.4.2 p	12 Extended Disc	overy Mechanism										
MUST	Extended Disc One LSR initi	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 llo.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





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ANVL-LDP-4.21	RFC 3036, s2.4.2 p	12 Extended Disc	overy Mechanism										
MUST	Extended Disc A targeted LS	overy differ R that choos		s Discovery in t does so by pe:									
	Ubuntu 16.04: pass												
ANVL-LDP-4.22	NEGATIVE RFC 3036, s2.4.2 p	TIVE 036, s2.4.2 p13 Extended Discovery Mechanism											
MUST	Receipt of an	LDP Targete peer reacha		s ifies a "Hello twork level and									
	Ubuntu 16.04: pass												
ANVL-LDP-5.1	RFC 3036, s2.5.1 p	13 LDP Session E	Stablishment										
MUST		of LDP Disco		t Connection E etween two 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				
ANVL-LDP-5.5	RFC 3036, s2.5.2 p	13 Transport Coni	nection Establishmen	t									
MUST	LSR1 (DUT) de	termines the	e transport add	t Connection Education Edu	used at its								
	Ubuntu 16.04: pass												
ANVL-LDP-5.9	RFC 3036, s2.5.2 p	C 3036, s2.5.2 p13 Transport Connection Establishment											
MUST	If LSR2 (ANVL	DP Session Establishment and Transport Connection Establishment f LSR2 (ANVL) uses the Transport Address optional object, A2 is the ddress LSR2 advertises via the optional object. (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				





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ANVL-LDP-5.10	RFC 3036, s2.5.2 p	13 Transport Conr	nection Establishmen	t									
MUST	If LSR2 (ANVL) uses the T	Transport Addre	t Connection E ess optional o al object. (DU	bject, A2 is t	he							
	Ubuntu 16.04: pass												
ANVL-LDP-5.12	RFC 3036, s2.5.2 p	14 Transport Conr	nection Establishmen	t									
MUST	LSR1 (DUT) de in session es	termines whe	ether it will posting a	addresses A1 a	stablishment e or passive r nd A2 as unsig therwise it is	ned							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-5.13	RFC 3036, s2.5.2 p	14 Transport Conr	nection Establishmen	t									
MUST	If A1 and A2	are not in t	he same addres	t Connection E ss family, the tablished. (Ba	y 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				
ANVL-LDP-5.19	RFC 3036, s2.5.2 p	14 Transport Conr	nection Establishmen	t									
MUST		dvertise the	same transpor	t Connection E rt address in	stablishment all Hellos tha	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				
ANVL-LDP-5.20	NEGATIVE RFC 3036, s2.5.2 p	EGATIVE FC 3036, s2.5.2 p14 Transport Connection Establishment											
MUST	An LSR MUST a	P Session Establishment and Transport Connection Establishment LSR MUST advertise the same transport address in all Hellos that Evertise the same 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				





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ANVL-LDP-6.1	RFC 3036, s2.5.3 p	14 Session Initializ	zation										
MUST		d LSR2 estab	olish a transpo changing LDP In			e							
	Ubuntu 16.04: pass												
ANVL-LDP-6.4	RFC 3036, s2.5.3 p	C 3036, s2.5.3 p15 Session Initialization											
MUST	sender"s (act	ation messagive LSR"s)	ge carries both Label space and s) label space	d the LDP Iden									
	Ubuntu 16.04: pass												
ANVL-LDP-6.5	NEGATIVE RFC 3036, s2.5.3 p	15 Session Initiali:	zation										
MUST	sender"s (act	ation messagive LSR"s)	ge carries both Label space and s) label space	d the LDP Iden									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-6.6	NEGATIVE RFC 3036, s2.5.3 p	15 Session Initialia	zation										
MUST	The Initializ	ssion Initialization e Initialization message carries both the LDP Identifier for the nder"s (active LSR"s) label space and the LDP Identifier for the ceiver"s (passive LSR"s) 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				





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ANVL-LDP-6.8	RFC 3036, s2.5.3 p	15 Session Initializ	zation										
MUST	Initializatio	T) plays the n message, I opose the pa	LSR1 replies w	and receives and receives and in the an Initial and its and it	ization messag								
	Ubuntu 16.04: pass												
ANVL-LDP-6.11	RFC 3036, s2.5.3 p	15 Session Initializ	zation										
MUST	matching Hell	T) plays the o adjacency		and if LSR1 cassion Rejected connection.		r							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p	16 Session Initiali:	zation										
MUST	KeepAlive in	T) plays the response to		and if LSR1 reation 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				
ANVL-LDP-6.13	RFC 3036, s2.5.3 p	16 Session Initiali:	zation										
MUST	When LSR1 (DU Notification	ssion Initialization en LSR1 (DUT) plays the passive role and if LSR1 receives an Error tification message, LSR2 has rejected its proposed session and LSR1 oses 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				





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ANVL-LDP-6.14	RFC 3036, s2.5.3 p	16 Session Initializ	zation								
MUST	Session Initi When LSR1 (DU Notification closes the TC	T) plays the message, LSF	R2 has rejected	and if LSR1 red	ceives an Erro session and L	r SR1					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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, s2.5.3 p	TIVE 036, s2.5.3 p16 Session Initialization									
MUST	When LSR1 (DU Initializatio	on Initialization LSR1 (DUT) plays the active role and if LSR1 does not receive an alization Message or a Keep Alive from the peer, LSR1 closes the TCP connection.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-6.16	RFC 3036, s2.5.3 p	16 Session Initialia	zation								
MUST		T) plays the		and if LSR1 recrepties with a							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p	16 Session Initiali:	zation								
MUST	When LSR1 (DU	on Initialization LSR1 (DUT) plays the active role and if LSR1 receives a KeepAlive age, LSR2 has accepted its proposed session 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		





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ANVL-LDP-6.19	RFC 3036, s2.5.3 p	16 Session Initializ	zation			-		-				
MUST		hrottle its		retry attempta E Initialization		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			
ANVL-LDP-6.21	RFC 3036, s2.5.3 p	3036, s2.5.3 p16 Session Initialization										
MUST	The session e Initializatio specific sess	on Initialization session establishment setup attempt following a NAK"d alization message must be delayed no less than 15 seconds. [The fic session establishment action that must be delayed is the mpt to open the session transport connection by the LSR playing										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.1	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine									
MUST				on Maintainanc nsmit Initiali		tive						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.2	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine									
MUST	In state INIT	nitialization State Machine and Session Maintainance n state INITIALIZED if LSR receives an acceptable Initialization msg Passive Role), action is to transmit Initialization msg and KeepAlive 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			





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ANVL-LDP-7.3	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state INIT	'IALIZED if I	LSR receives a	on Maintainanc ny other LDP m and close tran	sg, action is								
	Ubuntu 16.04: pass												
ANVL-LDP-7.4	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine					-	-				
MUST	In state OPEN	alization State Machine and Session Maintainance ate OPENREC if LSR receives a KeepAlive msg, the LSP is tional. (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				
ANVL-LDP-7.5	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state OPEN	nitialization State Machine and Session Maintainance n state OPENREC if LSR receives a KeepAlive msg, the LSP is perational. (DUT is 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				
ANVL-LDP-7.6	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state OPEN	REC if LSR and report of the second s	receives any o	on Maintainanc ther LDP msg, and close tran	the action 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				
ANVL-LDP-7.7	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state OPEN transmit Erro	itialization State Machine and Session Maintainance state OPENREC if LSR receives any other LDP msg, the action is to ansmit Error Notification msg (NAK) and close transport connection. UT is 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				





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ANVL-LDP-7.8	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state OPEN	SENT if LSR		on Maintainanc cceptable Init		,							
	Ubuntu 16.04: pass												
ANVL-LDP-7.9	RFC 3036, s2.5.4 p	3036, s2.5.4 p18 Initialization State Machine											
MUST	In state OPEN	SENT if LSR	receives any	on Maintainanc other LDP msg, and close tran	the action 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				
ANVL-LDP-7.11	RFC 3036, s2.5.4 p	C 3036, s2.5.4 p18 Initialization State Machine											
MUST		ATIONAL if I		on Maintainanc ther LDP msgs,									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.12	RFC 3036, s2.5.4 p	18 Initialization St	ate Machine										
MUST	In state OPER	ATIONAL if a		on Maintainancers, the action		t							
	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	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
ANVL-LDP-7.15	RFC 3036, s2.5.5 p	20 Maintaining He	ello Adjacencies										
MUST	An LSR mainta	itialization State Machine and Session Maintainance LSR maintains a hold timer with each Hello adjacency which it starts 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				





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ANVL-LDP-7.16	RFC 3036, s2.5.5 p	20 Maintaining He	ello Adjacencies			-		-					
MUST	If the timer peer, LDP con using that la	expires with cludes that bel space fo	nine and Session out receipt of the peer no loor that link (of the peer has	f a matching Honger wishes to tor target, in	ello from the o label switch								
	Ubuntu 16.04: pass												
ANVL-LDP-7.17	RFC 3036, s2.5.5 p	20 Maintaining He	ello Adjacencies										
MUST	When the last	Hello adjad e LDP sessio	nine and Session of the control of t	e session is d	eleted, the LS	R							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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, s2.5.6 p	20 Maintaining LD	P Sessions	-		-							
MUST	An LSR mainta	ins a KeepAl	nine and Session Live timer for Yes an LDP PDU	each peer ses	sion which 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				
ANVL-LDP-7.19	RFC 3036, s2.5.6 p	20 Maintaining LD	P Sessions										
MUST	If the KeepAl peer the LSR the peer has	alization State Machine and Session Maintainance Expectation KeepAlive timer expires without receipt of an LDP PDU from the The LSR concludes that the transport connection is bad or that Ever has failed, and it terminates the LDP session by closing the The 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				





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ANVL-LDP-7.21	RFC 3036, s2.5.6 p RFC 3036, s3.5.4.1										
MUST	its peer receperiod to ens The LSR may s The KeepAlive Sessions" res received on t provided to a an LSR has no must arrange every KeepAli	ter an LDP session has been established, an LSR must arrange that a peer receive an LDP PDU from it at least every KeepAlive time riod to ensure the peer restarts the session KeepAlive timer. ELSR may send any protocol message to meet this requirement. Expected to the KeepAlive Timer mechanism described in Section "Maintaining LDP sesions" resets a session KeepAlive timer every time an LDP PDU is serived on the session TCP connection. The KeepAlive Message is evided to allow reset of the KeepAlive Timer in circumstances where LSR has no other information to communicate to an LDP peer. An LSR set arrange that its peer receive an LDP Message from it at least erry KeepAlive Time period. Any LDP protocol message will do but, in recumstances where no other LDP protocol messages have been sent thin the period, a KeepAlive message must be sent.									
ANVL-LDP-7.22	Ubuntu 16.04: pass RFC 3036, s2.5.6 p										
MUST	Initialization The LSR may s [KeepAlive re The KeepAlive Sessions" resureceived on t provided to a an LSR has no must arrange every KeepAli	C 3036, s3.5.4.1 p63 KeepAlive Message Procedures itialization State Machine and Session Maintainance e LSR may send any protocol message to meet this requirement eepAlive requirement]. e KeepAlive Timer mechanism described in Section "Maintaining LDP ssions" resets a session KeepAlive timer every time an LDP PDU is ceived on the session TCP connection. The KeepAlive Message is ovided to allow reset of the KeepAlive Timer in circumstances where LSR has no other information to communicate to an LDP peer. An LSR st arrange that its peer receive an LDP Message from it at least ery KeepAlive Time period. Any LDP protocol message will do but, in recumstances where no other LDP protocol messages have been sent									
	Ubuntu 16.04: pass										





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ANVL-LDP-7.23	RFC 3036, s2.5.6 p RFC 3036, s3.5.4.1											
MUST	After an LDP its peer rece period to ens In circumstan to its peer, The KeepAlive Sessions" res received on t provided to a an LSR has no must arrange every KeepAlicircumstances	session has ive an LDP Hure the peer ces where ar it sends a H Timer mechaets a session has session had its peer ve Time peri where no ot	been establish PDU from it at restarts the LSR has no of GeepAlive messarism described in KeepAlive to the KeepAlive to the KeepAlive mation to commer receive an land. Any LDP part of the KeepAlive to contact and the KeepAlive mation to commer receive and the KeepAlive mation to commerce the KeepAlive mation the KeepAl	least every K session KeepA ther informatinge. d in Section "imer every time. The KeepAlimer In circumunicate to an LDP Message from the protocol messages here.	st arrange tha eepAlive time live timer. on to communic Maintaining LD e an LDP PDU i ve Message is rcumstances wh LDP peer. An om it at least ge will do but	ate P s ere LSR						
	Ubuntu 16.04: pass	Jbuntu 16.04: Ubuntu Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu										
ANVL-LDP-7.25	RFC 3036, s2.5.6 p.	20 Maintaining LD	P Sessions									
MAY	An LSR may ch	oose to term it choose to	minate an LDP :	on Maintainanc session with a forms the peer	peer at any							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, s2.6.1.1 RFC 3036, s2.8.3 p		Label Distribution Co	ontrol								
MAY		dependent LS	_	ch LSR may adv	ertise label							
	Label Mapping	the case of independent label distribution, an LSR may originate a bel Mapping message for an FEC before receiving a Label Mapping ssage from its downstream peer for 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			





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ANVL-LDP-8.6	RFC 3036, s2.6.1.1	p21 Independent	Label Distribution Co	ontrol									
MUST		ng in indeper abel mapping	ndent Downstrea g for a FEC to										
	Ubuntu 16.04: pass	pass 16.04: pass pass pass pass pass pass 16.04: pass 16.04: pass											
ANVL-LDP-8.20	RFC 3036, s2.6.2.2	3036, s2.6.2.2 p22-23 Liberal Label Retention Mode											
MUST	When using li a peer LSR is	Distribution and Management sing liberal label retention, every label mapping received from LSR is retained regardless of whether the LSR is the next hop e advertised mapping. (Unknown FEC from valid next 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				
ANVL-LDP-8.21	RFC 3036, s2.6.2.2	p22-23 Liberal La	abel Retention Mode										
MUST	a peer LSR is	beral label retained re	anagement retention, eve egardless of wl ng. (Known FEC	hether the LSR	is the next h								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-9.3	RFC 3036, s2.7 p23	3 LDP Identifiers a	ind Next Hop Address	ses									
MUST	When the next	hop for a p	Hop Addresses prefix changes kt hop from the										
	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				
ANVL-LDP-9.4	RFC 3036, s2.7 p23	3 LDP Identifiers a	and Next Hop Address	ses									
MUST	To retrieve t	P Identifiers and Next Hop Addresses retrieve the label the LSR must be able to map the next hop address the prefix to an LDP Identifier.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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				





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ANVL-LDP-9.5	RFC 3036, s2.7 p23	B LDP Identifiers a	nd Next Hop Address	ses							
MUST	Similarly, wh it must be ab for the prefi	en the LSR l le to determ x to determi	nine whether then the shear it to the shear the shear the shear it the shear	for a prefix hat peer is cu needs to star that match the	rrently a next t using the ne	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		
ANVL-LDP-9.8	RFC 3036, s2.7 p24	3036, s2.7 p24 LDP Identifiers and Next Hop Addresses									
MUST			Hop Addresses nessage to adv	ertise its add	resses to a pe	er.					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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, s2.7 p24	LDP Identifiers a	nd Next Hop Address	ses							
MUST		a Withdraw A		e to withdraw :	previously						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.2	RFC 3036, s3 p31 F	Protocol Specificat	ion								
MUST	-		PDUs and FEC The or more 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		
ANVL-LDP-15.3	RFC 3036, s3 p31 F	Protocol Specificat	ion								
MUST			PDUs and FEC Ti	LVs eed not be rel	ated to one						
	Ubuntu 16.04: FAIL	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		





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ANVL-LDP-15.4	NEGATIVE RFC 3036, s3.1 p31 LDP PDUs											
MUST			PDUs and FEC Tieader followed	LVs by one or mor	e LDP messages							
	Ubuntu 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-15.5	RFC 3036, s3.1 p31-32 LDP PDUs											
MUST	Validate LDP * Version: Th version 1. * PDU Length: PDU in octets maximum allow initialized. allowable len * LDP Identif globally uniq the LSR and a The last two	Header from is version of Two octet: , excluding table PDU Ler Prior to cought is 4096 ier: The firmue value. Ilso used to octets identice version of the prior to could be the country of the prior to country of the prior t	integer specification the Version and another is negotiated by the state of the control of the c	cation specification specification for the total and PDU Length able when an Line negotiation is identify the 32-bit router a loop detection be zero	length of thi fields. The DP session is the maximum LSR and must Id assigned t on Path Vector e LSR. For a	s be a o						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.7	RFC 3036, s3.3 p32	2-33 Type-Length-	Value Encoding									
MUST	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			





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ANVL-LDP-15.10	RFC 3036, s2.1 p8 RFC 3036, s3.4.1 p RFC 3036, s3.4.1 p	34 FEC TLV											
		ocol SpecificationPDUs and FEC TLVs FEC is specified as a set of one or more FEC elements.											
	A FEC is a li items.	C is a list of one or more FEC elements. The FEC TLV encodes FEC as.											
		that this version of LDP supports the use of multiple FEC ats per FEC for the Label Mapping message only.											
	Ubuntu 16.04: pass												
ANVL-LDP-15.11	RFC 3036, s3.4.1 p	C 3036, s3.4.1 p34-35 FEC TLV											
MUST	Protocol Spec Validate FEC		PDUs and FEC TI	LVs									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.12	RFC 3036, s3.4.1 p	35 FEC TLV											
MUST	A FEC Element	value is er and a varia nt value end	able length fie	LVs octet field tha eld that is the									
	Wildcard Prefix Host Address	ix 0x02 See below.											
	Ubuntu 16.04: pass												





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ANVL-LDP-15.15	NEGATIVE RFC 3036, s3.4.1 p	35 FEC TLV										
MUST	Note that thi Elements per The use of mu	s version of FEC for the ltiple FEC B	Label Mapping	the use of mu message only. her [than Labe	_							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.16	NEGATIVE RFC 3036, s3.4.1 p	ATIVE 3036, s3.4.1 p35 FEC TLV cocol SpecificationPDUs and FEC TLVs Wildcard FEC Element is to be used only in the Label Withdraw and el Release Messages. (Label Request with Wildcard FEC)										
MUST	The Wildcard											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.18	RFC 3036, s3.4.1 p RFC 3036, s3.5.10.		draw Message Proced	dures								
MUST	The Wildcard	FEC Element		LVs withdraw/rele e label within								
	Withdraw mess	FEC TLV may contain the Wildcard FEC Elementif the Label ndraw message contains an optional Label TLV, then the label is to withdrawn from all FECs to which it is bound.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14		
ANVL-LDP-15.19 MUST	NEGATIVE RFC 3036, s3.4.1 p RFC 3036, s3.5.10.		lraw Message Proced	lures							
			DUs and FEC TI must be the or		t in the FEC T	LV.					
	The FEC TLV m			EC Element; 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		
ANVL-LDP-15.23	RFC 3036, s3.4.1.1	3036, s3.4.1.1 p37 FEC Procedures									
SHOULD	If in decodin Address Famil TLV, abort pr	g a FEC TLV y it does no ocessing the Address Fami	ot support, it e message conta	ters a FEC Elem	ecoding the FE , and send an	С					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.24	RFC 3036, s3.4.1.1	p37 FEC Procedu	ıres								
SHOULD	If it encount decoding the	ers a FEC El FEC TLV, abo Unknown FEC'	ort processing	cannot decode	, it should st ontaining the s LDP 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		
ANVL-LDP-16.2	RFC 3036, s3.4.2.1	p37 Generic Labe	el TLV								
MUST		otocol SpecificationLabel, Address, and Hop Count TLVs lidate Generic Label 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		





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ANVL-LDP-16.14	NEGATIVE RFC 3036, s3.4.3 p	40 Address List T	_V										
MUST		ress Family Address Encoding 4 octet full IPv4 address											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-18.2	RFC 3036, s3.4.4.1	3036, s3.4.4.1 p40 Hop Count Procedures											
SHOULD	During setup for the LSP t	p Count Procedures ring setup of an LSP an LSR R may receive a Label Mapping message r the LSP that contains the Hop Count TLV. If it does, it should cord the hop count value and not release the mapping.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-20.1	NEGATIVE RFC 3036, s3.4.6 p	43 Status TLV											
MUST	Status TLV Notification signaled.	messages car	rry Status TLV:	s to specify e	vents being								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass								
ANVL-LDP-20.2	RFC 3036, s3.4.6 p	44 Status TLV											
MUST	Status TLV Validate Stat	tatus TLV alidate 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								





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ANVL-LDP-20.4	RFC 3036, s3.4.6 p	44 Status TLV			-							
MUST	Status TLV F bit should Code field.	be the same	as the setting	g of the F-bit	in the Status							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p	C 3036, s3.4.6 p44 Status TLV										
SHOULD	Status TLV Forward bit (be forwarded.		E clear (=0), t	the notification	on should not							
	Ubuntu 16.04: pass											
ANVL-LDP-20.12	RFC 3036, s3.4.6 p	45 Status TLV										
MUST	Status TLV A message oth an Optional P		otification mes	ssage may carr	y a Status TLV	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			
ANVL-LDP-21.1	RFC 3036, s3.5 p45	5 LDP Messages										
MUST	Upon receipt	of an unknow	n [LDP] messag	eepAlive Message, if Unknown ned to the mess	Message bit (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			
ANVL-LDP-21.2	RFC 3036, s3.5 p45	5 LDP Messages										
MUST	Upon receipt	LDP Messages, Notification Messages, KeepAlive Messages, Address Messages Upon receipt of an unknown [LDP] message, if Unknown Message bit (U)is set (=1), the unknown message is silently ignored.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





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ANVL-LDP-21.5	RFC 3036, s3.5.1 p	45 Notification Me	ssage									
MUST			on Messages, Ke ssage TLV enco		ges, Address M	essages						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-21.11	RFC 3036, s3.5.4 p	63 KeepAlive Mes	sage									
MUST		P Messages, Notification Messages, KeepAlive Messages, Address Messages Lidate KeepAlive Messages from DUT										
	Ubuntu 16.04: pass											
ANVL-LDP-21.13	RFC 3036, s3.5.5 p	64 Address Messa	age									
MUST			on Messages, Ke format from DI		ges, Address M	essages						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-21.14	RFC 3036, s3.5.5.1	p65 Address Mes	sage Procedures									
SHOULD	When a new LD or Label Requ	P session is est messages	s initialized a	and before send d advertise it	ges, Address M ding Label Map s 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			
ANVL-LDP-21.15	RFC 3036, s3.5.5.1	p65 Address Mes	sage Procedures									
SHOULD	Whenever an L	DP Messages, Notification Messages, KeepAlive Messages, Address Messages Thenever an LSR "activates" a new interface address, it should dvertise the new address with an Address 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			





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ANVL-LDP-21.16	RFC 3036, s3.5.5.1	p65 Address Mes	sage Procedures	-	-			•				
SHOULD	Whenever an L	SR "de-activation aw the addressed in the addressed in the addressed in the addressed in the same and the same are also as a second in the same are a second	vates" a previo	eepAlive Messa ously advertis dress Withdraw	ed address, 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			
ANVL-LDP-21.17	RFC 3036, s3.5.5.1	p65 Address Mes	sage Procedures									
MUST	If an LSR doe List TLV, it	s not suppor should send	t the Address an "Unsupporte	eepAlive Messa Family specif ed Address Fam rt processing	ied in the Add ily" Notificat	ress						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-21.18	RFC 3036, s3.5.6 p	65 Address Withd	raw Message									
MUST			on Messages, Ko 7 Message forma	eepAlive Messagat from DUT.	ges, Address M	essages						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p49 Malformed F	PDU or Message									
MUST	Malformed LDP	PDUs or Mes	cation Message sages that are silently disca	e part of the 3	LDP Discovery							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.2	RFC 3036, 3.5.1.2.	C 3036, 3.5.1.2.1 p49 Malformed PDU or Message										
MUST	Malformed LDP	vents Signaled by Notification Messages alformed LDP PDUs or Messages that are part of the LDP Discovery echanism are handled by silently discarding them. (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			





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ANVL-LDP-22.3	RFC 3036, 3.5.1.2.	1 p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if	ceived on a (1) The LDPThis is a	ication Message TCP connection Identifier in a fatal error :	n for an LDP so the PDU heade:	r is unknown t	0							
	Ubuntu 16.04: pass												
ANVL-LDP-22.4	RFC 3036, 3.5.1.2.	l p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if is not the LD	ceived on a (1) The LDP P Identifier LDP session	associated by	n for an LDP s the PDU heade y the receiver	r isknown b with the LDP	ut							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.5	RFC 3036, 3.5.1.2.	l p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: receiverT	ceived on a (2) The LDI his is a fat	ication Message TCP connection P protocol vers tal error signa T takes passive	n for an LDP s sion is not su aled by the Ba	pported by 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				
ANVL-LDP-22.6	NEGATIVE RFC 3036, 3.5.1.2.	I p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: receiver, or the session d	nts Signaled by Notification Messages LDP PDU received on a TCP connection for an LDP session is formed if: (2) The LDP protocol version is not supported by the eiver, or it is supported but is not the version negotiated for session during session establishment. This is a fatal error naled by the Bad Protocol Version 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				





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ANVL-LDP-22.8	RFC 3036, 3.5.1.2.	1 p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: receiverT	ents Signaled by Notification Messages LDP PDU received on a TCP connection for an LDP session is formed if: (2) The LDP protocol version is not supported by the reiverThis is a fatal error signaled by the Bad Protocol resion Status Code. (DUT takes active role)											
	Ubuntu 16.04: pass												
ANVL-LDP-22.9	NEGATIVE RFC 3036, 3.5.1.2.	1 p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if:	ceived on a (3) The PDU	J Length field	es n for an LDP s is too small Bad PDU Length	(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				
ANVL-LDP-22.10	NEGATIVE RFC 3036, 3.5.1.2.	1 p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: PDU length).	ceived on a (3) The PDU This is a f	J Length field	n for an LDP s istoo larg gnaled by the	e (> maximum								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.11	NEGATIVE RFC 3036, 3.5.1.2.	1 p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: PDU length).	ents Signaled by Notification Messages LDP PDU received on a TCP connection for an LDP session is Iformed if: (3) The PDU Length field istoo large (> maximum J length). This is a fatal error signaled by the Bad PDU Length atus 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				





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ANVL-LDP-22.12	NEGATIVE RFC 3036, 3.5.1.2.1	p49 Malformed F	PDU or Message										
MUST	An LDP PDU re malformed if: PDU length).	s Signaled by Notification Messages OP PDU received on a TCP connection for an LDP session is ormed if: (3) The PDU Length field istoo large (> maximum length). This is a fatal error signaled by the Bad PDU Length us Code. (PDU contains Label Request messages)											
	Ubuntu 16.04: pass												
ANVL-LDP-22.13	NEGATIVE RFC 3036, 3.5.1.2.1	p49 Malformed F	PDU or Message										
MUST	An LDP Messag the Message T signaled by t	e is malform ype is 0x80 he Unknown N	000 (high order Message Type St	e Message Type c bit = 0) it	the Message 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				
ANVL-LDP-22.15	NEGATIVE RFC 3036, 3.5.1.2.1	p49 Malformed F	PDU or Message										
MUST	An LDP Messag Mandatory Par	e is malform ameters. Th		e message is m atal error sign	issing one or nalled by the	more							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.16	RFC 3036, 3.5.1.2.2	2 p50 Unknown or	Malformed TLV										
MUST	Malformed TLV	nts Signaled by Notification Messages formed TLVs contained in LDP messages that are part of the LDP covery mechanism are handled by silently discarding the containing sage.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				





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ANVL-LDP-22.17	RFC 3036, 3.5.1.2.2	2 p50 Unknown or	Malformed TLV								
MUST	A TLV contain LDP is malfor indicates tha	ed in an LDE med if: (1) t the TLV ex	The TLV Lengtl stends beyond t	es ived on a TCP on is too large the end of the ed by the Bad '	, that is, containing						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.18	RFC 3036, 3.5.1.2.2	2 p50 Unknown or	Malformed TLV								
MUST	A TLV contain LDP is malfor 0x8000 (high	ed in an LDF med if: (2) order bit 0) If the TLV	The TLV type : it is an erro	es ived on a TCP of is unknown. I or signaled by 8000 (high ord	f the TLV type the Unknown T	is LV					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.19	RFC 3036, 3.5.1.2.2	2 p50 Unknown or	Malformed TLV								
MUST	A TLV contain LDP is malfor the receiver interpreted a	ed in an LDF med if: (3) handles the s indicative	The TLV Value TLV but cannot e of a bug in e	es ived on a TCP is malformed. t decode the Ti either the send the Malformed	This occurs LV Value. Thi ding or receiv	when s is ing					
	Ubuntu 16.04: FAIL										
ANVL-LDP-22.20	RFC 3036, s3.5.1.2	.3 p48 Session Ke	epAlive Timer Expira	tion							
MUST	Timer expirat	ents Signaled by Notification Messages mer expiration is a fatal error signaled by the KeepAlive Timer pired 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		





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ANVL-LDP-22.21	RFC 3036, s3.5.1.2	.4 p51 Unilateral S	Session Shutdown		-	-	-	-				
MUST	This is a fat Notification provide a rea	al event sig Message may son for the	optionally ind	Shutdown Statu clude an Extend e sending LSR	ded Status 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			
ANVL-LDP-22.23	RFC 3036, s3.5.1.2	036, s3.5.1.2.7 p51 Internal Errors										
MUST	An LDP implem specific to i implementatio implementatio	this Signaled by Notification Messages LDP implementation may be capable of detecting problem conditions cific to its implementation. When such a condition prevents an lementation from interacting correctly with a peer, the lementation should, when capable of doing so, use the Internal or 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			
ANVL-LDP-23.1	RFC 3036, s3.5.2 p	52 Hello Message	s									
MUST	Hello Message Validate Hell		encoding from I	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			
ANVL-LDP-23.3	RFC 3036, s3.5.2 p	52 Hello Message	s									
MUST		lo Messages d Time: A value of 0 means use the default, which is 15 seconds for k Hellos. A value of 0xffff means infinite.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





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ANVL-LDP-23.4	RFC 3036, s3.5.2 p	52 Hello Message	es .										
MUST	Hello Message Hold Time: A Targeted Hell	value of 0 m	means use the o	default, which	is 45 seconds	for							
	Ubuntu 16.04: pass												
ANVL-LDP-23.8	RFC 3036, s3.5.2 p	53 Hello Message	es										
MUST		o Messages rved - This field is reserved. It must be set to zero on smission and ignored on receipt.											
	Ubuntu 16.04: pass	Intu 16.04: Ubuntu Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu											
ANVL-LDP-23.10	RFC 3036, s3.5.2 p	52 Hello Message	s						-				
MAY	unsigned conf	Configuration se state of the	equence number	mber - Specific that identific . Used by the sending LSR.	es 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				
ANVL-LDP-23.13	RFC 3036, s3.5.2.1	p54 Hello Messa	ge Procedures										
MUST	Hello Message We recommend one third of	that the int		Hello transmi	ssions be at m	ost							
	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-23.14	NEGATIVE RFC 3036, s3.5.2.1	GATIVE C 3036, s3.5.2.1 p54 Hello Message Procedures											
MUST	Hello Message Received LDP LSR ignores i	eived LDP Hello Message Step 2: If the Hello is not acceptable, 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				





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ANVL-LDP-23.16	NEGATIVE RFC 3036, s3.5.2.1	p54 Hello Messa	ge Procedures									
MUST		is acceptabl	le if the inter label switching	rface on which	it was receiv	ed						
	Ubuntu 16.04: pass											
ANVL-LDP-24.1	RFC 3036, s3.5.3 p	55 Initialization M	essage									
MUST		ialization Messages date Initialization Messages encoding from DUT										
	Ubuntu 16.04: pass											
ANVL-LDP-24.3	RFC 3036, s3.5.3 p	56 Initialization M	essages									
MUST		rtisement D		dicates the typestream Unsoli								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-24.8	RFC 3036, s3.5.3 p	57 Initialization M	essages									
MUST	Initializatio D, Loop Detectivectors is en	tion - India	cates whether I	loop detection s loop detection	based on path on is disabled	•						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-24.10	RFC 3036, s3.5.3 p	C 3036, s3.5.3 p57 Initialization Messages										
MUST	PVLim, Path V	nitialization Messages VLim, Path Vector Limit - The configured maximum path vector length. ust be 0 if loop detection is disabled (D = 0).										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





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ANVL-LDP-24.14	RFC 3036, s3.5.3 p	57 Initialization Mo	essages								
MUST	Initializatio Reserved - Th transmission	is field is	reserved. It on receipt.	must be set to	o zero 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		
ANVL-LDP-24.15	RFC 3036, s3.5.3 p	57 Initialization Mo	essages								
MUST	allowable len	h - Two octe gth for LDP	et unsigned in PDUs for the skimum length o	session. A va							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-24.19	RFC 3036, s3.5.3 p	57 Initialization Mo	essages								
MUST	LSR must send response to t	Identifier - a Session F he Initializ	- If there is n Rejected/No He zation message ect LSR Id, co	llo Notification and not estab	on message in lish the sessi						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-24.20	RFC 3036, s3.5.3 p	57 Initialization Mo	essages								
MUST	Receiver LDP LSR must send response to t	alization Messages ver LDP Identifier - If there is no matching Hello adjacency, the must send a Session Rejected/No Hello Notification message in mse to the Initialization message and not establish the session. miver LDP ID: correct LSR Id, incorrect 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		





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ANVL-LDP-26.7	RFC 3036, s3.5.7.1	p67 Label Mappir	ng Message Procedu	res		-		-	-		
MUST	Prefix or Hos	ing a Label t Address FE less its rou	EC Element show	ge from a down uld not use th ntains an entr	e label 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		
ANVL-LDP-26.8	RFC 3036, s3.5.7.1	.1 p67 Independe	nt Control Mapping								
MUST		ured for Ind		rol and Downst. LSR recognizes							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-26.11	RFC 3036, s3.5.7.1	.1 p67 Independe	nt Control Mapping	-	-						
MUST		ured for Ind	dependent Conta mapping change	rol sends a mag	pping message	when					
	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-26.12	RFC 3036, s3.5.7.1	.1 p67 Independe	nt Control Mapping								
MUST	An LSR config receiving a m	I Mapping Messages SR configured for Independent Control sends a mapping message when siving a mapping from the downstream next hop and no upstream ing has been created.									
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	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		





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ANVL-LDP-27.7	RFC 3036, s3.5.8.1	p71 Label Reque	st Message Procedu	es								
SHOULD	Label Mapping	LSR should for the red	respond to a l quested label of satisfy the re	or with a Noti:								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-27.8		36, s3.5.8.1 p71 Label Request Message Procedures 36, s3.5.8.1 p71 Label Request Message Procedures										
MUST	a Host Addres to determine that exactly	for which a s FEC Elemer its response matches the	label is requent, the received in the received in the contract of the contract in the contract is a contract in the contract i	ing LSR uses i routing table fix or Host Ado	ts routing tab includes an e	le ntry						
			nat signals a n owing Status Co									
	Ubuntu 16.04: FAIL											
ANVL-LDP-28.12	RFC 3036, s3.5.10	C 3036, s3.5.10 p74 Label Withdraw Message										
MUST		el Abort Request Messages, Label Withdraw Messages, Label Release Messages idate the Label Withdraw Message 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			





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ANVL-LDP-28.15 MUST			Iraw Message Proced R decides to no longe									
	An LSR transm conditions: (for which it unilaterally	its a Label 1) The LSR r has advertis (e.g., via o	Withdraw mess no longer recosed a label; (age under the prizes a previous 2) The LSR has to no longer 1	ously known FE	C						
		R unilaterally decides (or is re-configured) to no longer label a particular FEC, Execute procedure Send_Label_Withdraw (Peer, revAdvLabel)										
	Ubuntu 16.04: pass											
ANVL-LDP-28.19	RFC 3036, s3.5.10.	3036, s3.5.10.1 p76 Label Withdraw Message Procedures										
MUST	The FEC TLV m contain no ot optional Labe	ay contain ther FEC Eler I TLV in the awing all la	the Wildcard Finents. In this Label Withdra	EC Element; if s case, iftlaw message, the	s, Label Relea so, it may here is not an en the sending ertised to 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			
ANVL-LDP-28.21	RFC 3036, s3.5.11	p76 Label Releas	e Message									
MUST		_	ages, Label Wi essage encoding	_	s, Label Relea	se Messages						
	Ubuntu 16.04: pass											
ANVL-LDP-28.22	RFC 3036, s3.5.11	p77 Label Releas	e Message									
MUST		el Abort Request Messages, Label Withdraw Messages, Label Release Messages idate optional Label TLV encoding from DUT in Label Release sage										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			





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ANVL-LDP-28.23	RFC 3036, s3.5.11.	1 p77 Label Relea	ase Message Procedu	ıres									
MUST	An LSR must t	ransmit a La	abel Release me	thdraw Message essage under a ives a Label W		se Messages							
	Ubuntu 16.04: pass												
ANVL-LDP-28.26	RFC 3036, s3.5.11.	3036, s3.5.11.1 p77 Label Release Message Procedures											
MUST	Note that if message will as specified mapping is no LSR keeps eac	an LSR is conever be traabove. In to longer the housed lake	onfigured for ansmitted in the this case [LSR next hop for to bel, so that it	"liberal mode" ne case of con which sent th the mapped FEC	dition (1) e label], the upstrea ely be used la	m							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, s3.5.11.	1 p77 Label Relea	ase Message Procedu	ıres									
MUST	Note that if message will as specified from an LSR w keeps each un	an LSR is conever be transbove. In thich is not used label,	onfigured for ansmitted in the this case [LSR the next hop is so that it can	"liberal mode" ne case of con receives a la for the FEC],	dition (2) bel mapping the upstream L be used later	SR							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	GATIVE C 3036, s3.10.1 p83 Well-known Numbers/UDP and TCP Ports											
MUST		ll-known Numbers, Name Spaces e 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				





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ANVL-LDP-31.2	RFC 3036, s3.10.1	p83 Well-known N	lumbers/UDP and TC	P Ports	-	-						
MUST	Well-known Nu The TCP port		Spaces shing LDP sess:	ion connection	s 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			
ANVL-LDP-32.1		TIVE 3036, s5.1 p86 Spoofing 3036, s5.3 p87 Denial of Service										
	An LSR can re Basic Hellos	ity Considerations R can reduce the threat of spoofed Basic Hellos by accepting Hellos only on interfaces to which LSRs that can be trusted are tly connected.										
	attacks: (1) Well know address the t	n UDP Port f hreat of Dos rectly conne	al targets for For LDP Discove S attacks via Rected only to pack.	ery. An LSR a Basic Hellos b	dministrator c y ensuring tha	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			
ANVL-LDP-32.4	NEGATIVE RFC 3036, s5.1 p86	Spoofing										
MUST	them and acce	duce the thr pting only t	reat of spoofed those originat: sive for session	ing at sources	permitted by	_						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	Spoofing										
MUST	An LSR can re	urity Considerations LSR can reduce the threat of spoofed Extended Hellos by filtering m and accepting only those originating at sources permitted by an ess list. (DUT is active 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			





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ANVL-LDP-32.6	RFC 3036, s5.1 p86	S Spoofing				-		-				
MUST		duce the thi	reat of spoofed those originat:									
	Ubuntu 16.04: pass											
ANVL-LDP-32.7	NEGATIVE RFC 3036, s5.1 p86											
MUST		duce the thi	reat of spoofed those originat:									
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	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			
ANVL-LDP-32.10	NEGATIVE RFC 3036, s5.1 p86	S Spoofing										
MUST		duce the thi	reat of spoofed the All Routers			asic						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-33.4	RFC 3036, Appendi	x A.1.1 p97 Rece	ive Label Request									
MUST	If there is n	rive Label Request There is no Next Hop, Execute procedure Send_Notification (Source, No Route)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14			
ANVL-LDP-34.2	RFC 3036, Appendi	x A.1.2 p99 Rece	ive Label Mapping									
MUST	If the receiv request for F and LSR does MsgSource for Hop for the F label mapping MsgSource.	the received label mapping does not match an outstanding label quest for FEC previously sent to MsgSource, and no loop detected, d LSR does not have a previously received label mapping for FEC from gSource for the LSP in question, and the MsgSource is not the Next of for the FEC, and LSR is using liberal label retention, record pel mapping for FEC with label and received attributes from gSource. Mp.1->3->9->11->12->13->33)										
	Ubuntu 16.04: pass	ountu 16.04: Ubuntu Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu Ubuntu										
ANVL-LDP-34.3	RFC 3036, Appendi	ix A.1.2 p99 Rece	ive Label Mapping									
MUST	request for F and LSR does MsgSource for for the FEC, LSR has previ question, and label mapping each peer tha record label MsgSource, an mapping for F sent, and per	ed label map EC previous not have a p the LSP in and LSR is r ously sent a for each pe are not cor t LSR does r mapping for d send a lab EC previous form LSR Lab	sping does not by sent to Msg: previously rece question, and not ingress for a label mapping eer that receives insistent with the not have any particular to FEC with label bel mapping to by sent to peer poel Use procedu	match an outs' Source, and no eived label may the MsgSource for FEC, and for g for FEC for wed attributes those previous ending label reland received peer and update to include the column.	loop detected pping for FEC is the Next H each peer thathe LSP in in the receivly sent, and fequests for FE attributes from the record of leading to the new attributes for the rewested attributes from the new attributes fr	from op t ed or C, om abel tes						
	Ubuntu 16.04: FAIL	untu 16.04: Ubuntu Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu 16.04: Ubuntu										





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14			
ANVL-LDP-34.5	RFC 3036, Appendi	x A.1.2 p99 Recei	ve Label Mapping									
MUST	request for F and LSR does MsgSource for for the FEC, LSR has not p question, and no label requ mapping for F and perform L	ed label map EC previousl not have a p the LSP in and LSR is r reviously se if DU order ests for FEC EC with labe SR Label Use	oping does not by sent to MsgS previously rece question, and not ingress for ent a label map red control is from peer man el and received e procedure.	match an outs Source, and no eived label may the MsgSource FEC, and for pping for FEC not in use by rked as pending attributes for 19->28->30->31	loop detected pping for FEC is the Next H each peer tha for the LSP in LSR, and LSR g, record laberom MsgSource,	from op t has 1						
	Ubuntu 16.04: pass											
ANVL-LDP-34.11	RFC 3036, Appendi	3036, Appendix A.1.2 p99 Receive Label Mapping										
MUST	request for F and LSR has a for the LSP i MsgSource doe	ed label may EC previously previously n question, s not match MsgSource, I	pping does not y sent to Msgs received labed and the label label received abel Release,	match an outs Source, and no I mapping for i previously red in message, FEC, Label).	loop detected FEC from MsgSo ceived from	urce						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-34.13	RFC 3036, Appendi	x A.1.2 p99 Recei	ve Label Mapping									
MUST	If the receiv request for F and LSR does MsgSource for from MsgSource MsgSource is label retentiattributes fr	eceive Label Mapping Part One the received label mapping does not match an outstanding label equest for FEC previously sent to MsgSource, and no loop detected, and LSR does have a previously received label mapping for FEC from segSource for the LSP in question, and the label previously received from MsgSource matches label received in the message, and the segSource is not the Next Hop for the FEC, and LSR is using liberal abel retention, record label mapping for FEC with label and received ttributes from MsgSource. LMp.1->3->9->10->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			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14		
ANVL-LDP-34.14	RFC 3036, Appendi	x A.1.2 p99 Rece	ive Label Mapping			-					
MUST	If the receiv request for F and LSR has a for the LSP i MsgSource mat the Next Hop peer that LSR in question, received labe and for FEC, reco attributes fr record of lab new attribute										
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL						
ANVL-LDP-34.16	RFC 3036, Appendi	x A.1.2 p99 Rece	ive Label Mapping								
MUST	If the receive request for Feand LSR has a for the LSP in MsgSource mat the Next Hope peer that LSR LSP in questite LSR has no la label mapping MsgSource, an	eive Label Mapping Part One the received label mapping does not match an outstanding label quest for FEC previously sent to MsgSource, and no loop detected, LSR has a previously received label mapping for FEC from MsgSource the LSP in question, and the label previously received from Source matches label received in the message, and the MsgSource is Next Hop for the FEC, and LSR is not ingress for FEC, and for each r that LSR has not previously sent a label mapping for FEC for the in question, and if DU ordered control is not in use by LSR, and has no label requests for FEC from peer marked as pending, record sel mapping for FEC with label and received attributes from Source, and perform LSR Label Use procedure.									
	Ubuntu 16.04: pass										





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14		
ANVL-LDP-34.23	RFC 3036, Appendi	x A.1.2 p99 Recei	ve Label Mapping								
MUST	Receive Label Mapping Part One If the received label mapping matches 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, delete record of outstanding FEC label request, 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->2->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: 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-35.18	NEGATIVE RFC 3036 Appendix	κ A - A.1.2 p104 R	eceive Label Mappin	g							
MUST	peer would be	solicited ma	apping with a d	multipath labe	l from the sam l switching, w						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-37.4	RFC 3036, Appendi	x A.1.4 p107 Rec	eive Label Release								
MUST	If LSR receiv Label Withdra Remove Label and if any pe	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		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14			
ANVL-LDP-37.6	RFC 3036, Appendi	x A.1.4 p107 Rec	eive Label Release									
MUST	If LSR receiv Label Withdra the LSR is no from forwardi	es a Label F ws) and LSR t configured ng/switching still hold t	is not the ego to propagate g use for trafi the label, free	does not match ress and is no releases, the fic from MsgSo	any outstandi t merging, and n Remove Label urce and if an							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-37.10	RFC 3036 Appendix	3036 Appendix A - A.1.4 p108 Receive Label Release										
MUST	Note 1: If LS	R is using I -advertise a		olicited label	distribution, sgSource until							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-37.13			Iraw Message Procedeive Label Withdraw	lures								
MUST		eceives a La	eceive Label W abel Withdraw 1	ithdraw message must r	espond with a							
	switching use	n receiving a Label Withdraw, remove Label from forwarding/ tching use and Execute procedure Send_Message (MsgSource, Label ease, FEC, Label)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14		
ANVL-LDP-38.2	RFC 3036, Appendix A.1.6 p111 Recognize New FEC										
MUST	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						
ANVL-LDP-38.3	RFC 3036, Appendix A.1.6 p111 Recognize New FEC RFC 3036, Appendix A.1.6 p113 Recognize New FEC										
	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) Note 3: If the LSR has a label for the FEC from the Next Hop, it should behave as if it had just received the label from the Next Hop. This occurs in the case of Liberal label retention mode.										
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	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		
ANVL-LDP-42.3	RFC 3036, Appendi	x A.2.1 p121 Sen	d_Label								
MUST	Send Label, Send Label Request, Check Received Attributes If the LSR has a label to allocate, allocate label and bind it to the FEC, install label for forwarding/switching use, execute procedure Send_Message(Peer, Label Mapping, FEC, Label, Attributes), record label mapping for FEC with label and attributes has been sent to peer, and if LSR does not have a record of a FEC label request from peer marked as pending, return success. (SL.1->2->3->4->5->6->8)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass						





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	Master 2018-02-06	Release 4.0	Master 2018-03-14		
ANVL-LDP-42.11	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes										
MUST	Send Label, Send Label Request, Check Received Attributes If received attributes do not include Hop Count, return No Loop Detected. (CRa.1->5)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass						
ANVL-LDP-42.13	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes										
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						
ANVL-LDP-42.15	RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes										
MUST	Send Label, Send Label Request, Check Received Attributes If received attributes include Hop Count and Hop Count does not exceed Max allowable hop count, and received attributes include Path Vector, and the Path Vector does not include LSR Id, and length of Path Vector does not exceed Max allowable length, return No Loop Detected. (CRa.1->2->3->4->5)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass						