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Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR
Commit ID	3e71b5d	3d7746c	b84ccd4	f731a65	bade23d	f30a732	f92f83b	dceb5f8	c47b10c	fb13970
Commit Date	2017-04-02	2017-04-25	2017-05-16	2017-05-24	2017-06-02	2017-06-27	2017-07-01	2017-07-21	2017-08-09	2017-08-16
ANVL-LDP-1.1	Setup Verification				•		•	•		•
MUST	Setup Verification Establish Hello Admatches configured	djacency and check t	that DUT Transport	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
ANVL-LDP-1.2	Setup Verification									
MUST	Setup Verification Establish LDP Sess									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-1.3	Setup Verification							•	•	•
MUST	Setup Verification Request Label Mapp									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-1.4	Setup Verification									
MUST	Setup Verification Establish 2 simult	n caneous LDP Sessions	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: pass	Ubuntu 16.04: pass
ANVL-LDP-1.5	Setup Verification									
MUST	Setup Verification Establish 2 LDP Se	n essions, request Lab	oel 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
ANVL-LDP-1.6	Setup Verification									
MUST	Setup Verification Send Label Release	n e for unsolicited La	abel 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
ANVL-LDP-1.9	Setup Verification									
MUST	Setup Verification Give 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
ANVL-LDP-1.13	Setup Verification									
MUST	Setup Verification Request Label Mapp	n ping from DUT for un	nknown 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
ANVL-LDP-1.14	Setup Verification									
MUST	Setup Verification Establish LDP Sess	n sion with ANVL as ta	argeted 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

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ANVL-LDP-1.16	2.0 Setup Verification	2017-04-25	2017-05-17	2017-05-24	2017-06-02	2017-06-26	2017-06-30	2017-07-20	3.0-rc1	2017-08-16
MUST	Setup Verification	Label Mapping to DUT	Γusing Liberal Lab	el Retention						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Verification			•	•		•			
MUST	Setup Verification Send Address Messa	n age with Address Lis	st 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
ANVL-LDP-1.24	Setup Verification									
MUST	Setup Verification Send DUT labelled	n data which DUT show	ıld 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	Ubuntu 16.04: pass
ANVL-LDP-1.25	Setup Verification									
MUST	Setup Verification Send DUT labelled	n data which DUT show	ıld 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	Ubuntu 16.04: pass
ANVL-LDP-2.3	RFC 3036, s1.2 p6 LDP M	essage Exchange								
MUST		nge and Structure es to establish a se sage, it uses the LI								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 M	essage Exchange								
MAY		nge and Structure ompletion of the in: s, and may exchange								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 M	essage Exchange			•		•			
MUST	LDP Message Exchar The LSR advertises the neighbor to us	a label mapping to	o a neighboring 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
ANVL-LDP-2.8	NEGATIVE RFC 3036, s1.2 p6 LDP M	essage Exchange								
MUST	LDP Message Exchar									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-2.9	RFC 3036, s1.3 p7 LDP M	essage Structure								
MUST		nge and Structure a TLV-encoded objecte re TLVs. (DUT Receiv		t, may itself						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-3.3	RFC 3036, s2.1 p8 FECs RFC 3036, s2.1 p8 FECs	•								
MUST	LDP OperationFEG We say that a part if and only if the We also say that a	Cs and Label Spaces ticular address "mat at address begins with a particular packet has an Address Prefition address.	tches" a particular ith that prefix. matches a particul	address prefix ar LSP if 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
ANVL-LDP-3.8	RFC 3036, s2.1 p9 FECs									
MUST		Cs and Label Spaces es multiple LSPs, it s 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
ANVL-LDP-3.9	RFC 3036, s2.1 p9 FECs									
MUST	If there is no one	Cs and Label Spaces e LSP whose matching n the set of LSPs wh	g prefix is longest	, the packet 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
ANVL-LDP-3.12	RFC 3036, s2.1 p9 FECs	•					•	•		
MUST	A packet may match	Cs and Label Spaces n two LSPs, one with ss Prefix FEC elemen	h a Host Address FE	C element and						
	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-3.16	RFC 3036, s2.2.2 p10 LDF	P Identifiers								
MUST	The first four oct	Cs and Label Spaces tets of the LDP Ider cally unique value,	ntifier octets iden	tify the 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
ANVL-LDP-3.18	RFC 3036, s2.2.2 p10 LDF	Pldentifiers								
MUST	The last two octet are always both zero. (Note: this test in	Cs and Label Spaces ts of LDP Identifier ero. is only valid for de res a LAN interface	rs for platform-wid evices with platfor	e label spaces						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-3.21	RFC 3036, s2.2.4 p11 LDF	P Transport								
MUST		Cs and Label Spaces reliable transport		ions and 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

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Montable											
Montain Fig. Mont			Transport							•	
MN 10 4	MUST	When multiple LDP	sessions are requir								
ANCILOTE NOTE: THE PROPRIETE OF THE PRO		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
State and Detailed State											
ANVILIDE-14 ANVILIDE-15	MUST	Discovery messages presence in a netw	s provide a mechanis work by sending a He Basic Discovery on a	sm whereby LSRs ind ello message period an interface an LSR	ically.						
NATE OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROFESS OF THE PROJECT		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
This [fello measage] is evaluated as a UPD peoker to the Line part of the 1st [fello measage] is evaluated as a UPD peoker to the 1st [fellows] is unit count and the sall routers of this subnet; group multicated address. The UPD port for Life [fello measage] is 486 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.10 ANVLIDP4.11 ANVLIDP4.12 ANVLIDP4.12 ANVLIDP4.12 ANVLIDP4.13 ANVLIDP4.13 ANVLIDP4.14 ANVLIDP4.12 ANVLIDP4.13 ANVLIDP4.14 ANVLIDP4.15 ANVLIDP4.16 ANVLIDP4.16 ANVLIDP4.16 ANVLIDP4.16 ANVLIDP4.17 ANVLIDP4.17 ANVLIDP4.18 ANVLIDP4.18		RFC 3036, s2.4.1 p12 Basi	ic Discovery Mechanism	TCP Ports							
ANVL-IDP-4.10 Ref 2006, s2.4 f pt 2 Biology Mechanisms Secretary Mechanisms Secreta		This [Hello message the `all routers of LDP Link Hellos are LDP discovery port multicast address.	ge] is transmitted a on this subnet" grou se sent as UDP packe t for the "all route	as a UDP packet to up multicast addres ets addressed to th ers on this subnet"	s. e well-known						
Radic and Extended Discovery Mechanisms		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 MUST NEGATIVE RC 3008, 24.1 pt 2 Basic Discovery Mechanism Disco	ANVL-LDP-4.10	RFC 3036, s2.4.1 p12 Basi	ic Discovery Mechanism								
ANVL-LDP-4.11 MUST REC 3036, \$2.41 p12 Basic Discovery Mechanisms An LDP Link Hello sent by an LSR carries possibly additional information, (Receipt of Hello with Configuration Sequence Number) Ubuntu 16.04: pass	MUST	An LDP Link Hello	sent by an LSR carr	ries possibly a	dditional LV)						
Basic and Extended Discovery Mechanisms Submiture Submitur		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
AN LDP Link Hello sent by an LSR carries possibly additional information. (Rec=tpt of Hello with Configuration Sequence Number) Duntu 16.04; pass Ubuntu 16.04; pass U	ANVL-LDP-4.11	RFC 3036, s2.4.1 p12 Basi	ic Discovery Mechanism								
ANVL-LDP-4.12 MUST ANVL-LDP-4.12 RFC 3036, s2.4.1 p12 Basic Discovery Mechanisms Receipt of an LDP Link Hello on an interface identifies a "Hello adjacency" with a potential LDP per reachable at the link level on the interface as well as the label space the peer intends to use for the interface. Ubuntu 16.04: pass Ubuntu 16.04: pas	MUST	An LDP Link Hello	sent by an LSR carr	ries possibly a							
RFC 3036, s2.4.1 p12 Basic Discovery Mechanisms Receipt of an LDP Link Hello on an interface identifies a "Hello adjacency" with a potential LDP peer reachable at the link level on the interface as well as the label space the peer intends to use for the interface. Ubuntu 16.04: pass Ubuntu 16.04:		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
Receipt of an LDP Link Hello on an interface identifies a "Hello adjacency" with a potential LDP peer reachable at the link level on the interface as well as the label space the peer intends to use for the interface. Ubuntu 16.04: pass	ANVL-LDP-4.12		ic Discovery Mechanism		•						
ANVL-LDP-4.14 MUST RFC 3036, s1.2 p6 LDP Message Exchange RFC 3036, s2.4.2 p12 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.	MUST	Receipt of an LDP adjacency with a the interface as w	Link Hello on an ir potential LDP peer	nterface identifies reachable at the l	ink level on						
RFC 3036, s2.4.2 p12 Extended Discovery Mechanism 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
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.		RFC 3036, s1.2 p6 LDP Me RFC 3036, s2.4.2 p12 Exte	essage Exchange ended Discovery Mechanism								
Ubuntu 16.04: pass Ubuntu 16.04:	MUST	Discovery messages presence in a netw To engage in LDP E	s provide a mechanis work by sending a He Extended Discovery a	sm whereby LSRs ind ello message period an LSR periodically	ically.						
		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-4.16	RFC 3036, s2.4.2 p12 Exte	nded Discovery Mechanism					•	•		
MUST	An LDP Targeted He	Discovery Mechanisello sent by an LSR are LSR intends to us on.	carries the LDP Id							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Exte	nded Discovery Mechanism								
MUST	Extended Discovery One LSR initiates	Discovery Mechanis differs from Basic Extended Discovery lecides whether to n	Discovery in the with another targe	ted LSR, and						
	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
ANVL-LDP-4.20	RFC 3036, s2.4.2 p12 Exte	nded Discovery Mechanism								
MUST	Extended Discovery One LSR initiates	Discovery Mechanis differs from Basic Extended Discovery lecides whether to a	Discovery in the with another targe	ted LSR, 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
ANVL-LDP-4.21	RFC 3036, s2.4.2 p12 Exte	nded Discovery Mechanism								
MUST	Extended Discovery A targeted LSR tha	Discovery Mechanis differs from Basic t chooses to respon the initiating LSF	Discovery in the and does so by period	following ways: dically sending						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Exte	nded Discovery Mechanism								
MUST	Receipt of an LDP	Discovery Mechanis Targeted Hello ider reachable at the rouse.	ntifies a "Hello ad							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-5.1	RFC 3036, s2.5.1 p13 LDP	Session Establishment								
MUST		ishment and Transpo OP Discovery Hellos Ment.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p13 Tran	sport Connection Establishm	entent							
MUST	LSR1 (DUT) determi	ishment and Transpones the transport as end (A2) of the I	ddresses to be use							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-5.9	RFC 3036, s2.5.2 p13 Tran	nsport Connection Establishm	nent		•	•				
MUST	If LSR2 (ANVL) use	lishment and Transposes the Transport Addrtises via the option	dress optional obje	ct, 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
ANVL-LDP-5.10	RFC 3036, s2.5.2 p13 Tran	nsport Connection Establishm	nent							
MUST	If LSR2 (ANVL) use	lishment and Transposs es the Transport Ado rtises via the option	dress optional obje	ct, 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
ANVL-LDP-5.12	RFC 3036, s2.5.2 p14 Tran	nsport Connection Establishm	nent		•					
MUST	LSR1 (DUT) determing in session establic	lishment and Transprines whether it will ishment by comparing A2, LSR1 plays the	l play the active og addresses Al and	r passive role A2 as unsigned						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p14 Tran	nsport Connection Establishm	nent							
MUST	If A1 and A2 are r	lishment and Transponot in the same adding no session can be	ress family, they a	re						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p14 Tran	nsport Connection Establishm	nent							
MUST		lishment and Transportise the same transport e 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
ANVL-LDP-5.20	NEGATIVE RFC 3036, s2.5.2 p14 Tran	nsport Connection Establishm	nent		•					
MUST		lishment and Transpo tise the same transp e 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
ANVL-LDP-6.1	RFC 3036, s2.5.3 p14 Ses	ssion Initialization								
MUST		ation R2 establish a trans s by exchanging 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
ANVL-LDP-6.4	RFC 3036, s2.5.3 p15 Ses	ssion Initialization								
MUST	sender"s (active I	ation n message carries b LSR"s) label space a ve LSR"s) label space	and the LDP Identif							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-6.5	NEGATIVE RFC 3036, s2.5.3 p15 Ses	sion Initialization								
MUST	sender"s (active I	ation n message carries b LSR"s) label space a ve LSR"s) label space	and the LDP Identif.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p15 Ses	sion Initialization								
MUST	sender"s (active I	ation n message carries bo LSR"s) label space a ve LSR"s) label spac	and the LDP Identif.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Ses	sion Initialization								
MUST	Initialization mes	ation lays the passive ro ssage, LSR1 replies e the parameters it acceptance of LSR2	with an Initialization wishes to use and a	tion message 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
ANVL-LDP-6.11	RFC 3036, s2.5.3 p15 Ses	sion Initialization								
MUST	matching Hello ad	ation lays the passive ro jacency it sends a s age and closes the s	Session Rejected/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
ANVL-LDP-6.12	RFC 3036, s2.5.3 p16 Ses	sion Initialization								
MUST	KeepAlive in respo	ation lays the passive ro onse to its Initial: LSR1"s point of view	ization message, 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
ANVL-LDP-6.13	RFC 3036, s2.5.3 p16 Ses	sion Initialization								
MUST		lays the passive ro age, LSR2 has reject								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-6.14	RFC 3036, s2.5.3 p16 Ses	sion Initialization								
MUST		lays the active role age, LSR2 has reject								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-6.15	NEGATIVE RFC 3036, s2.5.3 p16 Ses	ssion Initialization								
MUST		lays the active rolessage or a Keep Aliv								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-6.16	RFC 3036, s2.5.3 p16 Ses	sion Initialization						,		
MUST		ation lays the active role lization message, 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: pas
ANVL-LDP-6.17	RFC 3036, s2.5.3 p16 Ses	sion Initialization								
MUST		ation lays the active role accepted its propos								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pas
ANVL-LDP-6.19	RFC 3036, s2.5.3 p16 Ses	ssion Initialization								
MUST		ation tle its session setu ff in situations whe								
	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pas				
ANVL-LDP-6.21	Ubuntu 16.04: pass RFC 3036, s2.5.3 p16 Ses		Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pas				
ANVL-LDP-6.21 MUST	RFC 3036, s2.5.3 p16 Ses Session Initializa The session estable Initialization mestable specific session estable The session estab	sion Initialization	mpt following a NAK ed no less than 15 a n that must be dela	"d seconds. [The yed is the	Ubuntu 16.04: pass	Ubuntu 16.04: pas				
	RFC 3036, s2.5.3 p16 Ses Session Initializa The session estable Initialization mestable specific session estable attempt to open the	ation lishment setup attenssage must be delayeestablishment action	mpt following a NAK ed no less than 15 a n that must be dela	"d seconds. [The yed is the	Ubuntu 16.04: pass Ubuntu 16.04: pass					
	RFC 3036, s2.5.3 p16 Ses Session Initializa The session estable Initialization mest specific session estable attempt to open the session estable the active role.	ation lishment setup attenssage must be delayeestablishment action he session transport Ubuntu 16.04: FAIL	mpt following a NAK ed no less than 15 and that must be delay t connection by the	"d seconds. [The yed is the LSR playing						
MUST ANVL-LDP-7.1	RFC 3036, s2.5.3 p16 Ses Session Initializa The session estable Initialization mest specific session estable attempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization States	ation lishment setup attenssage must be delayeestablishment action he session transport Ubuntu 16.04: FAIL	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL						Ubuntu 16.04: pas Ubuntu 16.04: pas
MUST ANVL-LDP-7.1	RFC 3036, s2.5.3 p16 Ses Session Initialization messpecific session eathern to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization State Initialization State In state INITIALIZATION	ation lishment setup attenssage must be delayeestablishment action he session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Sess	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL						
MUST	RFC 3036, s2.5.3 p16 Ses Session Initializa The session estable Initialization mest specific session estable attempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization State Initialization State In state INITIALIZA Role).	ation lishment setup attenssage must be delayeestablishment action be session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Session action is to the session action	mpt following a NAK ed no less than 15 in that must be delay tonnection by the Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pas				
MUST ANVL-LDP-7.1 MUST	RFC 3036, s2.5.3 p16 Ses Session Initialization mession establication mession establication mession establication mession establication specific session estatempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization State INITIALIZATION (Section 1) and the active role in state I	ation lishment setup attenssage must be delayeestablishment action be session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Session action is to the session action	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass sion Maintainance ransmit Initializat Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL ion 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: pas
ANVL-LDP-7.1 MUST ANVL-LDP-7.2	RFC 3036, s2.5.3 p16 Ses Session Initialization mession establication mession establication mession establication mession establication specific session establication statempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization State INITIALIZATION S	ation lishment setup attents age must be delayerestablishment action he session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Session action is to the session transport Ubuntu 16.04: pass alization State Machine ate Machine and Session action is to the session transport	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass sion Maintainance ransmit Initializat Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL ion 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: pas
MUST ANVL-LDP-7.1 MUST ANVL-LDP-7.2	RFC 3036, s2.5.3 p16 Ses Session Initialization mession establinitialization mession establinitialization mession establinitialization session estatempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization Stalin state INITIALIZATION Stalinitialization Stalinitializa	ation lishment setup attents age must be delayerestablishment action he session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Session action is to transport Ubuntu 16.04: pass alization State Machine ate Machine and Session action is to transmit Ubuntu 16.04: pass ate Machine and Session is to transmit Ubuntu 16.04: pass	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass sion Maintainance ransmit Initializat Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL ion msg (Active Ubuntu 16.04: pass ialization msg g and KeepAlive	Ubuntu 16.04: pass Ubuntu 16.04: pass	Ubuntu 16.04: pas				
MUST ANVL-LDP-7.1 MUST ANVL-LDP-7.2 MUST	RFC 3036, s2.5.3 p16 Ses Session Initialization mession establinitialization mession establinitialization mession establinitialization specific session estatempt to open the active role.] Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization Stain state INITIALIZATION Role). Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization Stain state INITIALIZATION (Passive Role), admsg. Ubuntu 16.04: pass RFC 3036, s2.5.4 p18 Initialization Stain state INITIALIZATION STAIN	ation lishment setup attents age must be delayerestablishment action he session transport Ubuntu 16.04: FAIL alization State Machine ate Machine and Session action is to transport Ubuntu 16.04: pass alization State Machine ate Machine and Session action is to transmit Ubuntu 16.04: pass ate Machine and Session is to transmit Ubuntu 16.04: pass	mpt following a NAK ed no less than 15 in that must be delay t connection by the Ubuntu 16.04: pass sion Maintainance ransmit Initializat Ubuntu 16.04: pass sion Maintainance an acceptable Init t Initialization msc Ubuntu 16.04: pass	"d seconds. [The yed is the LSR playing Ubuntu 16.04: FAIL ion msg (Active Ubuntu 16.04: pass ialization msg g and KeepAlive Ubuntu 16.04: pass	Ubuntu 16.04: pass Ubuntu 16.04: pass	Ubuntu 16.04: pas				

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ANVL-LDP-7.4	RFC 3036, s2.5.4 p18 Initia	lization State Machine								
MUST		te Machine and Sess f LSR receives a Ke is passive)		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
ANVL-LDP-7.5	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST		te Machine and Sess f LSR receives a Ke is active)		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
ANVL-LDP-7.6	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPENREC i	te Machine and Sess f LSR receives any ification msg (NAK)	other 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
ANVL-LDP-7.7	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPENREC i	te Machine and Sess f LSR receives any ification msg (NAK)	other 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
ANVL-LDP-7.8	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPENSENT	te Machine and Sess if LSR receives an ransmit KeepAlive m	acceptable Initial	ization 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
ANVL-LDP-7.9	RFC 3036, s2.5.4 p18 Initia	lization State Machine								
MUST	In state OPENSENT	te Machine and Sess if LSR receives any ification msg (NAK)	other 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
ANVL-LDP-7.11	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST		te Machine and Sess NAL if LSR receives LL.		e 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
ANVL-LDP-7.12	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPERATION	te Machine and Sess MAL if a timeout occ lose transport conr	curs, the action is	to transmit						
	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	Ubuntu 16.04: pass

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ANVL-LDP-7.15	RFC 3036, s2.5.5 p20 Mair	ntaining Hello Adjacencies									
MUST	An LSR maintains a	ate Machine and Sess a hold timer with ea receives a Hello tha	ach Hello 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	
ANVL-LDP-7.16	RFC 3036, s2.5.5 p20 Mair	ntaining Hello Adjacencies									
MUST	If the timer expir peer, LDP conclude using that label s	ate Machine and Sess res without receipt es that the peer no space for that link or that the peer has	of a matching Hell longer wishes to la (or target, in the	abel switch							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.17	RFC 3036, s2.5.5 p20 Mair	ntaining Hello Adjacencies			•	•	•	•	•	•	
MUST	When the last Hell	ate Machine and Sess to adjacency for a I P session by sending port connection.	LDP session is dele								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p20 Mair	ntaining LDP Sessions				•	•	•	•	•	
MUST	An LSR maintains a	ate Machine and Sess a KeepAlive timer fo c receives an LDP PI	or each peer 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	
ANVL-LDP-7.19	RFC 3036, s2.5.6 p20 Mair	ntaining LDP Sessions									
MUST	If the KeepAlive t	ate Machine and Sessimer expires without udes that the transed, and it terminate ton.	at receipt of an LD sport connection is	bad or that							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, s2.5.6 p20 Mair RFC 3036, s3.5.4.1 p63 Ke		s								
MUST	RFC 3036, s3.5.4.1 p63 KeepAlive Message Procedures Initialization State Machine and Session Maintainance After an LDP session has been established, an LSR must arrange that its peer receive an LDP PDU from it at least every KeepAlive time period to ensure the peer restarts the session KeepAlive timer. The LSR may send any protocol message to meet this requirement.										
	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	

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ANVL-LDP-7.22	RFC 3036, s2.5.6 p20 Mai RFC 3036, s3.5.4.1 p63 K	ntaining LDP Sessions eepAlive Message Procedure	s							
MUST	Initialization Sta	ate Machine and Sess any protocol message	sion Maintainance	irement						
	Sessions resets a received on the seprovided to allow an LSR has no other must arrange that every KeepAlive Ticircumstances when	er mechanism describ a session KeepAlive ession TCP connection reset of the KeepAlive er information to consist the peer receive and ime period. Any LDI re no other LDP proton, a KeepAlive message	timer every time at on. The KeepAlive I live Timer in circul ommunicate to an LD on LDP Message from P protocol message tocol messages have	n LDP PDU is Message is mstances where P peer. An LSR it at least will do but, in						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.23	RFC 3036, s2.5.6 p20 Mai RFC 3036, s3.5.4.1 p63 K	ntaining LDP Sessions eepAlive Message Procedure	s		•	•				
MUST	After an LDP sessits peer receive a period to ensure in circumstances	ate Machine and Session has been establi an LDP PDU from it a the peer restarts th where an LSR has no ends a KeepAlive mes	ished, an LSR must at least every Keep ne session KeepAliv other information	Alive time e timer.						
	Sessions resets a received on the seprovided to allow an LSR has no other must arrange that every KeepAlive Ticircumstances when	er mechanism describe a session KeepAlive ession TCP connection reset of the KeepAlive er information to continuous its peer receive and ime period. Any LDE re no other LDP proton, a KeepAlive message.	timer every time at on. The KeepAlive I live Timer in circul ommunicate to an LD on LDP Message from P protocol message tocol messages have	n LDP PDU is Message is mstances where P peer. An LSR it at least will do but, in						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-7.25	RFC 3036, s2.5.6 p20 Mai	ntaining LDP Sessions								
MAY	An LSR may choose	ate Machine and Sess to terminate an LDI hoose to do so, it	session with a pe							
	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: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-8.5	RFC 3036, s2.6.1.1 p21 In RFC 3036, s2.8.3 p28 Disc	dependent Label Distribution cussion	Control							
MAY		n and Management ndent LSP control, e eighbors at any time		ise label						
	Label Mapping mess	dependent label dist sage for an FEC befo downstream peer for	ore receiving a Lab							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-8.6	RFC 3036, s2.6.1.1 p21 In	dependent Label Distribution	Control							
MUST		independent Downstr mapping for a FEC 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

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ANVL-LDP-8.20	RFC 3036, s2.6.2.2 p22-23	B Liberal Label Retention Mod	le				•			
MUST	a peer LSR is reta	n and Management L label retention, e ained regardless of M mapping. (Unknown	whether the LSR is	the 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	Ubuntu 16.04: pass
ANVL-LDP-8.21	RFC 3036, s2.6.2.2 p22-23	B Liberal Label Retention Mod	le							
MUST	a peer LSR is reta	n and Management L label retention, e ained regardless of M mapping. (Known FE	whether the LSR is	the 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	Ubuntu 16.04: pass
ANVL-LDP-9.3	RFC 3036, s2.7 p23 LDP le	dentifiers and Next Hop Addre	esses							
MUST	When the next hop	nd Next Hop Addresse for a prefix change new next hop from t	es the LSR must ret							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-9.4	RFC 3036, s2.7 p23 LDP lo	dentifiers and Next Hop Addre	esses							
MUST	To retrieve the la	nd Next Hop Addresse abel the LSR must be an LDP Identifier.		ext hop address						
	Ubuntu 16.04: pass	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: unpredict	Ubuntu 16.04: pass
ANVL-LDP-9.5	RFC 3036, s2.7 p23 LDP l	dentifiers and Next Hop Addre	esses		•		•			
MUST	Similarly, when the it must be able to for the prefix to	nd Next Hop Addresse ne LSR learns a labe o determine whether determine whether in n forwarding packets	el for a prefix from that peer is current It needs to start us	ntly a next hop sing the newly						
	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass
ANVL-LDP-9.8	RFC 3036, s2.7 p24 LDP le	dentifiers and Next Hop Addre	esses							
MUST		nd Next Hop Addresse ddress message to ad		ses 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
ANVL-LDP-9.9	RFC 3036, s2.7 p24 LDP le	dentifiers and Next Hop Addre	esses							
MUST		nd Next Hop Addresse chdraw Address messa ses from a peer.		viously						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Protoco	I Specification								
MUST		ationPDUs and FEC carry one or more LD								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.3	RFC 3036, s3 p31 Protoco	l Specification		•	•		•	•		
MUST		ationPDUs and FEC sages in an LDP PDU		d to one						
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: unpredict	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
ANVL-LDP-15.4	NEGATIVE RFC 3036, s3.1 p31 LDP F	PDUs								
MUST	Protocol Specifica	ationPDUs and FEC n LDP header followe		DP 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
ANVL-LDP-15.5	RFC 3036, s3.1 p31-32 LD	P PDUs								
	version 1. * PDU Length: Two PDU in octets, exc maximum allowable initialized. Pric allowable length i * LDP Identifier: globally unique va the LSR and also u The last two octet	octet integer special country of the special country of the Version PDU Length is negot or to completion of its 4096 bytes. The first four octed alue. It should be alsed to identify it its identify a label el space, these should be space, these should be space, these should be space.	fying the total leand PDU Length fie iable when an LDP the negotiation the ts identify the LS a 32-bit router Id in loop detection space within the L	ngth of this lds. The session is e maximum R and must be a assigned to Path Vectors.						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p32-33 Typ	pe-Length-Value Encoding								
MUST	Validate LDP TLV e An LDP TLV is enco a Type and 2 bits	oded as a 2 octet fi to specify behavior d by a 2 octet Lengt	eld that uses 14 b when an LSR doesn	"t recognize						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 FECs RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC									
		ationPDUs and FEC Fied as a set of one		nts.						
	A FEC is a list of items.	one or more FEC el	ements. The FEC T	LV encodes FEC						
		rsion of LDP support For the Label Mappin		ple 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
ANVL-LDP-15.11	RFC 3036, s3.4.1 p34-35 F	FEC TLV								
MUST	Protocol Specifica Validate FEC TLV E	ationPDUs and FEC Encoding from DUT.	TLVs							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-15.12	RFC 3036, s3.4.1 p35 FEC	TLV			•			•		
MUST	A FEC Element valu		l octet field that :	specifies the ype-dependent						
	Wildcard 0x0 Prefix 0x0 Host Address 0x0	See below.	., 0 value octets (s	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
ANVL-LDP-15.15	NEGATIVE RFC 3036, s3.4.1 p35 FEC	TLV					•	•		
MUST	Note that this ver Elements per FEC f The use of multipl	ationPDUs and FEC rsion of LDP support for the Label Mappin e FEC Elements in c ermitted in this ver	ts the use of multing ng message only. other [than Label Ma							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p35 FEC	TLV					•			
MUST	The Wildcard FEC E	ationPDUs and FEC Element is to be use sages. (Label Reques	ed only in the 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	Ubuntu 16.04: pass
ANVL-LDP-15.18	RFC 3036, s3.4.1 p35 FEC RFC 3036, s3.5.10.1 p76 L	TLV abel Withdraw Message Pro	cedures				•			
MUST	The Wildcard FEC E	ationPDUs and FEC Element indicates the Cs associated with t	ne withdraw/release							
	Withdraw message of	ontain the Wildcard contains an optional all FECs to which	l Label TLV, then 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
ANVL-LDP-15.19	NEGATIVE RFC 3036, s3.4.1 p35 FEC RFC 3036, s3.5.10.1 p76 L	CTLV abel Withdraw Message Pro	cedures							
		ationPDUs and FEC Element must be the		n the FEC TLV.						
	The FEC TLV may co	ontain the Wildcard FEC Elements.	FEC 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	Ubuntu 16.04: pass

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ANVL-LDP-15.23	RFC 3036, s3.4.1.1 p37 FE	EC Procedures		•			•	•		
SHOULD	If in decoding a F Address Family it TLV, abort process	ationPDUs and FEC FEC TLV an LSR encount does not support, is sing the message con ess Family" Notifica	unters a FEC Elemen it should stop decontaining the TLV, a	ding the FEC nd send 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	Ubuntu 16.04: pass
ANVL-LDP-15.24	RFC 3036, s3.4.1.1 p37 FE	EC Procedures								
SHOULD	If it encounters a decoding the FEC T	ationPDUs and FEC a FEC Element type in TLV, abort processing own FEC" Notification	it cannot decode, ing the message cont	aining the 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
ANVL-LDP-16.2	RFC 3036, s3.4.2.1 p37 G6	eneric Label TLV								
MUST		ationLabel, Address Label TLV encoding f		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	Ubuntu 16.04: pass
ANVL-LDP-16.14	NEGATIVE RFC 3036, s3.4.3 p40 Addi	ress List TLV								
MUST		ationLabel, Address ress encodings are of Address Encoding 4 octet full IPv 16 octet full IPv	defined by this ver 4 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
ANVL-LDP-18.2	RFC 3036, s3.4.4.1 p40 Ho	pp Count Procedures								
SHOULD	for the LSP that o	res n LSP an LSR R may n contains the Hop Cou unt value and not re	unt TLV. If it doe	ping message s, it should		_				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-20.1	NEGATIVE RFC 3036, s3.4.6 p43 State	us TLV								
MUST	Status TLV Notification messa signaled.	nges carry Status TI	LVs to specify even	ts being						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-20.2	RFC 3036, s3.4.6 p44 State	us TLV								
MUST	Status TLV Validate Status TL	V encoding from DU	Γ.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-20.4	RFC 3036, s3.4.6 p44 Stat	tus TLV								
MUST	Status TLV F bit should be th Code field.	ne same as the sett:	ing 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	Ubuntu 16.04: pass
ANVL-LDP-20.8	RFC 3036, s3.4.6 p44 Stat	tus TLV								
SHOULD	Status TLV Forward bit (F-Bit be forwarded.	t)If clear (=0)	, the notification :	should not						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-20.12	RFC 3036, s3.4.6 p45 Stat	tus TLV								
MUST	Status TLV A message other th an Optional Parame		message may carry 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	Ubuntu 16.04: pass
ANVL-LDP-21.1	RFC 3036, s3.5 p45 LDP N	Messages	•		•					
MUST	Upon receipt of ar	n unknown [LDP] mes	KeepAlive Messages sage, if Unknown Me urned to the message	ssage 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	Ubuntu 16.04: pass
ANVL-LDP-21.2	RFC 3036, s3.5 p45 LDP N	Messages								
MUST	Upon receipt of ar	n unknown [LDP] mes	KeepAlive Messages sage, if Unknown Me is silently ignored	ssage 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	Ubuntu 16.04: pass
ANVL-LDP-21.5	RFC 3036, s3.5.1 p45 Noti	ification Message								
MUST		ification Messages, tion Message TLV end	KeepAlive Messages coding from DUT	, Address 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
ANVL-LDP-21.11	RFC 3036, s3.5.4 p63 Kee	pAlive Message								
MUST		ification Messages, e Messages from DUT	KeepAlive Messages	, Address 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
ANVL-LDP-21.13	RFC 3036, s3.5.5 p64 Add	Iress Message								
MUST		ification Messages, Message format from	KeepAlive Messages DUT.	, Address 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
ANVL-LDP-21.14	RFC 3036, s3.5.5.1 p65 Ac	ddress Message Procedures								
SHOULD	When a new LDP ses or Label Request m	ssion is initialized	KeepAlive Messages d and before sending ald advertise its in essages.	g 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

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ANVL-LDP-21.15	RFC 3036, s3.5.5.1 p65 Ac	ddress Message Procedures								
SHOULD	Whenever an LSR "a	ification Messages, activates" a new int address with an Add	terface 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	Ubuntu 16.04: pass
ANVL-LDP-21.16	RFC 3036, s3.5.5.1 p65 Ac	ddress Message Procedures								
SHOULD	Whenever an LSR "o	ification Messages, de-activates" a prev he address with an <i>N</i> Withdraw Message".	viously advertised a	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	Ubuntu 16.04: pass
ANVL-LDP-21.17	RFC 3036, s3.5.5.1 p65 Ac	ddress Message Procedures								
MUST	If an LSR does not List TLV, it shoul	ification Messages, t support the Addres ld send an "Unsuppor ling an error and ak	ss Family specified rted Address Family	in the Address " 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
ANVL-LDP-21.18	RFC 3036, s3.5.6 p65 Add	Iress Withdraw Message								
MUST		ification Messages, Withdraw Message for		, Address 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
ANVL-LDP-22.1	RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	Malformed LDP PDUs	y Notification Messa s or Messages that a dled by silently dis	are part of the 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	Ubuntu 16.04: pass
ANVL-LDP-22.2	RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message			•		•	•		
MUST	Malformed LDP PDUs	y Notification Messa s or Messages that a dled by silently dis	are part of the 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
ANVL-LDP-22.3	RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if (1)	y Notification Messa ed on a TCP connect: The LDP Identifier : his is a fatal error Code.	ion for an LDP sess in the PDU header is	s 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
ANVL-LDP-22.4	RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if (1) T is not the LDP Ide	y Notification Messa ed on a TCP connects The LDP Identifier is entifier associated session. This is a r Status Code.	ion for an LDP sess in the PDU header is by the receiver wi	sknown but th the 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

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ANVL-LDP-22.5	RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiverThis is	y Notification Messa ed on a TCP connect: The LDP protocol ve is a fatal error sig de. (DUT takes pass	on for an LDP sess ersion is not suppo gnaled by the Bad P	rted 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	Ubuntu 16.04: pass
ANVL-LDP-22.6	NEGATIVE RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiver, or it is the session during	y Notification Messa ed on a TCP connect: The LDP protocol ve s supported but is r g session establish ad Protocol Version	on for an LDP sessersion is not supposed the version negreent. This is a far	rted by the otiated 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
ANVL-LDP-22.8	RFC 3036, 3.5.1.2.1 p49 N	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiverThis is	y Notification Messa ed on a TCP connect: The LDP protocol ve is a fatal error sig de. (DUT takes activ	on for an LDP sessersion is not support gnaled by the Bad P	rted 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	Ubuntu 16.04: pass
ANVL-LDP-22.9	NEGATIVE RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3)	y Notification Messa ed on a TCP connect: The PDU Length fiel rror signaled by the	on for an LDP sess.d is too small (1	4)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 N	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	y Notification Messa ed on a TCP connect: The PDU Length fiel s is a fatal error a contains random dat	on for an LDP sess d istoo large (signaled by the Bad	> 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	Ubuntu 16.04: pass
ANVL-LDP-22.11	NEGATIVE RFC 3036, 3.5.1.2.1 p49 M	Malformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	y Notification Messa ed on a TCP connect: The PDU Length fiel s is a fatal error s contains Label Mapp	on for an LDP sess d istoo large (signaled by the Bad	> 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	Ubuntu 16.04: pass

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ANVL-LDP-22.12	NEGATIVE RFC 3036, 3.5.1.2.1 p49 N	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	y Notification Messa ed on a TCP connecti The PDU Length fiel s is a fatal error s contains Label Requ	ion for an LDP sess: ld istoo large (: signaled by the Bad	> 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	Ubuntu 16.04: pass
ANVL-LDP-22.13	NEGATIVE RFC 3036, 3.5.1.2.1 p49 N	falformed PDU or Message								
MUST	An LDP Message is the Message Type i signaled by the Un	y Notification Messa malformed if: (1) T is 0x8000 (high ord nknown Message Type n order bit = 1) it	The Message Type is der bit = 0) it is a Status Code. If the	an error e Message Type						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 N	lalformed PDU or Message								
MUST	An LDP Message is Mandatory Paramete	Notification Messa malformed if: (3) T ers. This is a non- arameters Status Coo	The message is miss: -fatal error signal:							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p50 U	Inknown or Malformed TLV								
MUST	Malformed TLVs con	y Notification Messa ntained in LDP messa sm are handled by si	ages 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
ANVL-LDP-22.17	RFC 3036, 3.5.1.2.2 p50 U	Inknown or Malformed TLV								
MUST	A TLV contained in LDP is malformed indicates that the	y Notification Messa n an LDP message red if: (1) The TLV Leng e TLV extends beyond a fatal error signa	ceived on a TCP com gth is too large, th d the end of the co	hat is, ntaining						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p50 U	Inknown or Malformed TLV								
MUST	A TLV contained in LDP is malformed in 0x8000 (high order	y Notification Messa n an LDP message red if: (2) The TLV type r bit 0) it is an en the TLV type is >= (ceived on a TCP come is unknown. If the error signaled by the	ne TLV type is e Unknown 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

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									a project by the Network Device Education Foundat	ion, inc (www.netber.org)
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ANVL-LDP-22.19	RFC 3036, 3.5.1.2.2 p50 U	Inknown or Malformed TLV			-			•		
MUST	A TLV contained in LDP is malformed in the receiver handlinterpreted as income.	y Notification Messan an LDP message redif: (3) The TLV Values the TLV but cambicative of a bug in all error signaled by	ceived on a TCP con ue is malformed. T not decode the TLV n either the sendin	his occurs when Value. This is g or receiving						
	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-22.20	RFC 3036, s3.5.1.2.3 p48	Session KeepAlive Timer Exp	piration		-					
MUST		y Notification Messa is a fatal error sig de.		live Timer						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-22.21	RFC 3036, s3.5.1.2.4 p51	Unilateral Session Shutdown			•					
MUST	This is a fatal even Notification Messa provide a reason for the second	y Notification Messavent signaled by the age may optionally for the Shutdown.	e Shutdown Status C include an Extended The sending LSR ter	Status TLV to						
	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: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-22.23	RFC 3036, s3.5.1.2.7 p51	Internal Errors								
MUST	An LDP implementat specific to its in implementation from implementation should be a specific for the specific form.	y Notification Messation may be capable inplementation. When om interacting correctly when capable to signal the peer	of detecting problem such a condition ectly with a peer, of doing so, use the	prevents an the e Internal						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 Hell	o Messages								
MUST	Hello Messages Validate Hello Mes	ssages encoding from	n 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
ANVL-LDP-23.3	RFC 3036, s3.5.2 p52 Hell	o Messages								
MUST		e of 0 means use the alue of 0xffff means		15 seconds 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
ANVL-LDP-23.4	RFC 3036, s3.5.2 p52 Hell	o Messages								
MUST	Hello Messages Hold Time: A value Targeted Hellos.	e of 0 means use the	e default, which is	45 seconds 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
ANVL-LDP-23.8	RFC 3036, s3.5.2 p53 Hell	o Messages								
MUST		ield is reserved. : ignored on receipt.	It must be set to z	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

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ANVL-LDP-23.10	RFC 3036, s3.5.2 p52 Hell	lo Messages			•					
MAY	unsigned configuration state	iguration Sequence lation sequence numbers to the sending Laration changes on the second seco	er that identifies SR. Used by the re	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
ANVL-LDP-23.13	RFC 3036, s3.5.2.1 p54 H	ello Message Procedures								
MUST	Hello Messages We recommend that one third of the 1	the interval between the	en Hello transmissi	ons be at most						
	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-23.14	NEGATIVE RFC 3036, s3.5.2.1 p54 H	ello Message Procedures								
MUST	Hello Messages Received LDP Hello LSR ignores it.	o Message Step 2: I:	f 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	Ubuntu 16.04: pass
ANVL-LDP-23.16	NEGATIVE RFC 3036, s3.5.2.1 p54 H	ello Message Procedures								
MUST		cceptable if the ined for label switch		was received						
	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: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-24.1	RFC 3036, s3.5.3 p55 Initi	alization Message								
MUST	Initialization Mes Validate Initialis	ssages zation Messages enc	oding 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
ANVL-LDP-24.3	RFC 3036, s3.5.3 p56 Initi	alization Messages								
MUST		ssages ement Discipline - : value of 0 means D								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p57 Initi	alization Messages								
MUST		ssages - Indicates whethe d. A value of 0 mea								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p57 Initi	alization Messages								
MUST		ssages r Limit - The config detection is disab		vector length.						

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ANVL-LDP-24.14	RFC 3036, s3.5.3 p57 Initia	alization Messages					•	•	•	
MUST		ssages leld is reserved. I gnored on receipt.	It must be set to \mathbf{z}_i	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
ANVL-LDP-24.15	RFC 3036, s3.5.3 p57 Initia	alization Messages								
MUST	allowable length f	ssages Two octet unsigned in For LDP PDUs for the ault maximum length	e session. A value							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 p57 Initia	alization Messages								
MUST	LSR must send a Se response to the Ir.	ssages tifier - If there is ession Rejected/No B nitialization messag incorrect LSR Id, o	Hello Notification of ge and not establish	message in h the 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
ANVL-LDP-24.20	RFC 3036, s3.5.3 p57 Initia	alization Messages								
MUST	LSR must send a Se response to the In	ssages cifier - If there is ession Rejected/No B nitialization messag correct LSR Id, ind	Hello Notification of ge and not establish	message in h the 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
ANVL-LDP-26.7	RFC 3036, s3.5.7.1 p67 La	bel Mapping Message Proce	dures							
MUST	Prefix or Host Add	a Label Mapping mess dress FEC Element sh its routing table o	nould not use the la	abel 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
ANVL-LDP-26.8	RFC 3036, s3.5.7.1.1 p67 l	Independent Control Mappino)							
MUST		sages for Independent Cor Ing message when 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
ANVL-LDP-26.11	RFC 3036, s3.5.7.1.1 p67 l	Independent Control Mapping	3							
MUST		sages for Independent Cor es of a mapping char		ng 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	Ubuntu 16.04: FAIL

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ANVL-LDP-26.12	RFC 3036, s3.5.7.1.1 p67	Independent Control Mapping	9		•				•	
MUST		for Independent Conng from the downstr								
	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: pass	Ubuntu 16.04: pass
ANVL-LDP-27.7	RFC 3036, s3.5.8.1 p71 La	abel Request Message Proce	dures						-	
SHOULD	Label Mapping for	sages should respond to a the requested labe cannot satisfy the	l or with a Notific							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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		abel Request Message Proce abel Request Message Proce								
MUST	a Host Address FEG to determine its a that exactly match must respond with	which a label is red C Element, the rece response. Unless i hes the requested Pa a No Route Notifica	iving LSR uses its ts routing table in refix or Host Addre ation message.	routing table cludes an entry ss, the LSR						
		ssage that signals a he following Status								
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL
ANVL-LDP-28.12	RFC 3036, s3.5.10 p74 La	bel Withdraw Message								
MUST		st Messages, Label 1 l Withdraw Message		Label Release Messa	ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-28.15		Label Withdraw Message Pro 14 p120 LSR decides to no lo								
	An LSR transmits a conditions: (1) The for which it has a unilaterally (e.g.	st Messages, Label Maraw mean Label Withdraw mean he LSR no longer readvertised a label; ., via configuration he label mapping being	ssage under the fol cognizes a previous (2) The LSR has de n) to no longer lab	lowing ly known FEC cided	ages					
		ally decides (or is ar FEC, Execute pro)								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-28.19	RFC 3036, s3.5.10.1 p76 L	Label Withdraw Message Pro	cedures							
MUST	The FEC TLV may contain no other I optional Label TLV	st Messages, Label ontain the Wildcard FEC Elements. In the Vin the Label Without all label mappings	FEC Element; if so ais case, ifther draw message, then	, it may e is not an the sending	ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-28.21	RFC 3036, s3.5.11 p76 Lal	bel Release Message			•					
MUST		st Messages, Label N lease Message encod		Label Release Messa	ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-28.22	RFC 3036, s3.5.11 p77 Lal	bel Release Message			•	•				
MUST		st Messages, Label 1 Label TLV encoding			ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-28.23	RFC 3036, s3.5.11.1 p77 L	_abel Release Message Proc	edures							
MUST	An LSR must transm	st Messages, Label N mit a Label Release ons: (3) The LSR red	message under any	of the	ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, s3.5.11.1 p77 L	Label Release Message Proc	edures							
MUST	Note that if an LS message will never as specified above mapping is no long LSR keeps each unu	st Messages, Label Notes is configured for the transmitted in the case [Label Notes in the case [Label Notes in the new the ne	r "liberal mode", a the case of condit SR which sent the l r the mapped FEC], it can immediately	Release ion (1) abel the upstream be used later	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
ANVL-LDP-28.27		Label Release Message Proc								
MUST	Note that if an LS message will never as specified above from an LSR which keeps each unused	st Messages, Label No SR is configured for the transmitted in the sease [Like is not the next hope label, so that it to becomes the next hope is the sease of the	r "liberal mode", a the case of condit SR receives a label o for the FEC], the can immediately be	Release ion (2) mapping upstream LSR	ages					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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 We	ell-known Numbers/UDP and	TCP Ports							
MUST	Well-known Numbers The UDP port for I	s, Name Spaces 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
ANVL-LDP-31.2	RFC 3036, s3.10.1 p83 We	ell-known Numbers/UDP and	TCP Ports							
MUST	Well-known Numbers	s, Name Spaces establishing LDP sea	ssion connections i	s 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

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MOVING M			i										
No. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,													
## Mode Provide the provide to wild largets for denial of service (Pos) Provide to the provide to wild largets for denial of service (Pos) Provide to the provide to		RFC 3036, s5.1 p86 Spoof	ing I of Service		•	•	•		•				
Mode Part		An LSR can reduce Basic Hellos only	the threat of spoot on interfaces to wh										
MUST Security Consider Security S		attacks: (1) Well known UDP Port for LDP Discovery. An LSR administrator can address the threat of DoS attacks via Basic Hellos by ensuring that the LSR is directly connected only to peers which can be trusted to											
Note		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: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
Security Considerations of apopting and provided Method (Aprilation by Citierating them and anapopting of plants of provided (Aprilation by Citierating at an anapopting of provided by an approximate of part (Aprilation by Citierating at an anapopting of plants (Aprilation by Citierating at anapopting of plants (Aprilation by Citierating at anapopting of plants (Aprilation by Citierating at anapopting of plants) ***********************************	ANVL-LDP-32.4		ïng										
ANVLIDP-32.7 MVLIDP-32.7 MVLI	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											
Security Considerations and Accepting on the Control 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		
ANVL-LDP-32.6 NEGATIVE RCS steeds and accepting only those originating at sources permitted by an access first. (DOT is active for session establishment) are sources permitted by an access first. (DOT is active for session establishment) are sources permitted by an access first. (DOT is active for session or establishment) and the session access first. (DOT is active for session establishment) are sources permitted by an access first. (DOT is active for session access first on a face permitted by an access first. (DOT is active for session access first on a face permitted by an access first on a	ANVL-LDP-32.5	RFC 3036, s5.1 p86 Spoof	ing		•	•	•	•	•				
MUST Scurity Considerations Scurity Consid	MUST	An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an											
Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering and accepts list. Dubutu 16.04: pass		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
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 Ub	ANVL-LDP-32.6	RFC 3036, s5.1 p86 Spoof	ing										
ANVL-LDP-32.7 MUST **REGATIVE RFC 3036, s5.1 p86 Spooling** **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: FAIL** **Ubuntu 16.04: FAIL** **Ubuntu 16.04: pass** **Ubuntu 16.04: pass*	MUST	An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an											
RFC 3036, \$5.1 p86 Spoofing 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: FAIL Ubuntu 16.04: pass Ubuntu 16.04		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
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: FAIL Ubuntu 16.04: pass Ubuntu 1													
ANVL-LDP-32.10 MUST **NEGATIVE RFC 3036, s5.1 p86 Spoofing Security Considerations An LSR can reduce the threat of spoofed Basic Hellos by ignoring Basic Hellos not addressed to the All Routers on this Subnet multicast group.	MUST	An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an											
MUST RFC 3036, s5.1 p86 Spoofing Security Considerations An LSR can reduce the threat of spoofed Basic Hellos by ignoring Basic Hellos not addressed to the All Routers on this Subnet multicast group.		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		
Security Considerations An LSR can reduce the threat of spoofed Basic Hellos by ignoring Basic Hellos not addressed to the All Routers on this Subnet multicast group.			ing										
Ubuntu 16.04: pass Ubuntu 16.04:	MUST	An LSR can reduce Hellos not address	the threat of spoot	ed Basic Hellos by	ignoring Basic multicast								
		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-33.4	RFC 3036, Appendix A.1.1 p97 Receive Label Request											
MUST	Receive Label Requ If there is no Nex (MsgSource, No Rou	xt Hop, Execute proc	cedure Send_Notification	ation								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	RFC 3036, Appendix A.1.2 p99 Receive Label 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		
ANVL-LDP-34.3	RFC 3036, Appendix A.1.2	2 p99 Receive Label 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 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->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: pass	Ubuntu 16.04: pass		
ANVL-LDP-34.5	RFC 3036, Appendix A.1.2	2 p99 Receive Label 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 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. (LMM.1->3->9->11-12->14->16->17->18->19->28->30->31->33)											

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ANVL-LDP-34.11	RFC 3036, Appendix A.1.2	2 p99 Receive Label Mapping		•	•		•	•					
MUST	If the received 1: request for FEC p: and LSR has a pre- for the LSP in que MsgSource does no Send_Message(MsgS)	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->3)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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, Appendix A.1.2	RFC 3036, Appendix A.1.2 p99 Receive Label 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 have 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 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->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	Ubuntu 16.04: pass			
ANVL-LDP-34.14	RFC 3036, Appendix A.1.2	2 p99 Receive Label 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 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 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->10->11->12->14->16->17->18->22->23->24->25->26->27->28-> 30->31->31->33->31->31->33->31->31->31->31												
	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-34.16	RFC 3036, Appendix A.1.2	2 p99 Receive Label 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 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)												
	label mapping for MsgSource, and pe	FEC with label and rform LSR Label Use	received attribute procedure.	es from									

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ANVL-LDP-34.23	RFC 3036, Appendix A.1.2	2 p99 Receive 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, 1-2-2-3-9->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	Ubuntu 16.04: FAIL		
ANVL-LDP-35.18	NEGATIVE RFC 3036 Appendix A - A.	1.2 p104 Receive Label Map	ping									
MUST	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		
ANVL-LDP-37.4	RFC 3036, Appendix A.1.4	p107 Receive Label Release	e						•			
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		
ANVL-LDP-37.6	RFC 3036, Appendix A.1.4	p107 Receive Label Release	9									
MUST	Receive Label Release, Receive Label Withdraw If LSR receives a Label Release (that does not match any outstanding Label Withdraws) and LSR is not the egress and is not merging, and the LSR is not configured to propagate releases, then Remove Label from forwarding/switching use for traffic from MsgSource and if any peers do not still hold the label, free the label. LRl.1->2->4->6->7->8->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		
	RFC 3036 Appendix A - A.1.4 p108 Receive Label Release											
ANVL-LDP-37.10	RFC 3036 Appendix A - A.	1.4 p108 Receive Label Rele	ase									
ANVL-LDP-37.10 MUST	Receive Label Rele	ease, Receive Label using Downstream Un ertise a label mapp:	Withdraw nsolicited label di									

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Marcian Marc													
Proceion Content Con	ANVL-LDP-37.13												
ACCIONAL PROPERTY Control (1967) C	MUST	An LSR that receive	ves a Label Withdra		ond with a								
MNST 0		switching use and	Execute procedure										
MOST 1 Process of the Part		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
this learning a new 222 while configured for power present uncollicited independent conformation for each present precedure (sec.1) for each present present precedure (sec.1) for each present present present present precedure (sec.1) for each present	ANVL-LDP-38.2	RFC 3036, Appendix A.1.6	RFC 3036, Appendix A.1.6 p111 Recognize New FEC										
ANVLLDP-423 MVST	MUST	When learning a not independent Control mapping from the last Label Distribution	ew FEC while config ol, if LSR does not Next Hop for FEC, a	have previously re nd Next Hop is not	tained label a peer, repeat								
## ARVILLDP-42.13 ## ARVILLDP-42.11 ## ARVILLDP-42.13 ## ARVILLDP-4		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
Sending a Ring PEC FEC will a configured for Development and Sending Feel East Sen		RFC 3036, Appendix A.1.6 RFC 3036, Appendix A.1.6	6 p111 Recognize New FEC 6 p113 Recognize New FEC										
## Should behave as if it had just received the label from the Next Hop. This occurs in the case of Liberation mode. Ubuntu 16.04: FAIL	MUST	When learning a not independent Control the Next Hop for large for each Peer and	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.										
ANVL-LDP-42.3 RFC 3036, Appendix A.2: p121 Send_Label Send_Label, Send_Label, Send_Label Request, Check_Received Attributes		should behave as if it had just received the label from the Next Hop.											
Send Label, Send label Request, Check Received Attributes Fish LSR has a label to allocate allocate label and bind it to the Fish LSR has a label to allocate, allocate label and bind it to the Send, Mesnage (Peer, Label Mapping, PEC, Label, Attributes), record label LSR dones not be validated and attributes have been cent to peer, (SL1-2-2-3-3-5-5-5-5-8-5-8-5-8-5-8-5-8-5-8-5-8		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: pass	Ubuntu 16.04: pass		
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 alabel 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.1-22-3)-34-35-36-88) Ubuntu 16.04: pass Ubuntu 1	ANVL-LDP-42.3	RFC 3036, Appendix A.2.1	p121 Send_Label										
ANVL-LDP-42.11 MUST MUST MUST RFC 3036, Appendix A 2.6 p126 Check_Received_Attributes MUST Detected. (CRa.1->5) Ubuntu 16.04: pass Ubuntu	MUST	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.											
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 Ub		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
If received attributes do not include Hop Count, return No Loop Detected. (CRa.1->5) Ubuntu 16.04: pass Ubu	ANVL-LDP-42.11	RFC 3036, Appendix A.2.6	p126 Check_Received_Attri	butes									
ANVL-LDP-42.13 RFC 3036, Appendix A.2.6 p126 Check_Received_Attributes 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)	MUST	If received attributes do not include Hop Count, return No Loop Detected.											
Send Label, Send Label Request, Check Received Attributes If received attributes include 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: pass	Ubuntu 16.04: pass		
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)	ANVL-LDP-42.13	RFC 3036, Appendix A.2.6	p126 Check_Received_Attri	butes									
Ubuntu 16.04: pass Ubuntu 16.04:	MUST	If received attrib Max allowable hop Vector, return No	butes include Hop Co count, and received	ount and Hop Count	does not exceed								
		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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-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	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	

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