



									a project by the Network Device Education Founda	doil, life (www.recour.org)
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Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR
Commit ID	1a664f5	3e71b5d	e61a754	3d7746c	b84ccd4	f731a65	bade23d	f30a732	f92f83b	dceb5f8
Commit Date	2017-03-08	2017-04-02	2017-04-04	2017-04-25	2017-05-16	2017-05-24	2017-06-02	2017-06-27	2017-07-01	2017-07-21
ANVL-LDP-1.1	Setup Verification							•		•
MUST	Setup Verification Establish Hello Admatches configured	djacency and check t	that DUT Transport i	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					İ	•	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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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										ion, inc (www.necosa.org)
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ANVL-LDP-1.16	Setup Verification	•		-	•	-	-		-	
MUST	Setup Verification Send unsolicited I and listen for Lak	Label Mapping to DU'	T using 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	lessage 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	lessage 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	lessage Exchange		•	•					
MUST	LDP Message Exchar The LSR advertises the neighbor to us	s 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	lessage Exchange								
MUST		nge and Structure transport for session or everything but 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-2.9	RFC 3036, s1.3 p7 LDP M	lessage Structure								
MUST		nge and Structure a TLV-encoded object re TLVs. (DUT Receive		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	We say that a part if and only if tha We also say that a	icular address "mat t address begins w particular packet as an Address Pref:	, Identifiers, Sess ches" a particular ith that prefix. matches a particular ix FEC element which	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		s multiple LSPs, it	, Identifiers, Sess t is mapped to the :							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-3.9	RFC 3036, s2.1 p9 FECs									
MUST	If there is no one	LSP whose matching	, Identifiers, Sess g prefix is longest nose matching prefi	, 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	two LSPs, one with	, Identifiers, Sess n a Host Address FE nt; the packet is a	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 LDP	Identifiers								
MUST	The first four oct	ets of the LDP Iden	, Identifiers, Sess ntifier octets iden such as a 32-bit r	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 LDP	Identifiers								
MUST	The last two octet are always both ze (Note: this test i	s of LDP Identifier			,					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 LDP	Transport								
MUST		s and Label Spaces reliable transport	, Identifiers, Sess for sessions.	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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MoleColon   Mole											
Mary 10   Property											
Montain Fig.   1   1   1   1   1   1   1   1   1			Transport								
MN   10	MUST	When multiple LDP	sessions are requir								
ANCI-OP-10  NUMBER OF STREET OF STRE		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
Society   Soci					•	•					
ANVILIDE-14   ANVILIDE-15	MUST	Discovery messages presence in a netw To engage in LDP B	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  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.11  ANVLIDP4.12  ANVLIDP4.12  ANVLIDP4.12  ANVLIDP4.13  ANVLIDP4.13  ANVLIDP4.14  ANVLIDP4.14  ANVLIDP4.12  ANVLIDP4.12  ANVLIDP4.12  ANVLIDP4.12  ANVLIDP4.13  ANVLIDP4.12  ANVLIDP4.13  ANVLIDP4.14  ANVLIDP4.14  ANVLIDP4.15  ANVLIDP4.15  ANVLIDP4.15  ANVLIDP4.15  ANVLIDP4.16  ANVLIDP4.16  ANVLIDP4.16  ANVLIDP4.16  ANVLIDP4.17  ANVLIDP4.17  ANVLIDP4.18	RFC 3036, s2.4.1 p12 Bas	ic Discovery Mechanism	TCP Ports								
ANVL-IDP-4.12   RC 3008, s2.4 f pt 2 8 section 4 Ret need 1 Section 4 Per la		This [Hello message the `all routers of LDP Link Hellos and 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. Le 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    MEGATIVE   RFC 3008, s2.4.1 pt 2 Basic   Discovery Mechanism   Di	ANVL-LDP-4.10	RFC 3036, s2.4.1 p12 Bas	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						
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 Bas	ic Discovery Mechanism								
ANVL-LDP-4.12 MUST  Basic and Extended 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  ANVL-LDP-4.14 MUST  RFC 3036, \$1.2 p6 LDP Message Exchange RFC 3036, \$2.4 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	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			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 B	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	ended Discovery Mechanism								
MUST	An LDP Targeted He	d Discovery Mechanisello sent by an LSR ne LSR intends to us	carries the LDP Id	entifier for itional						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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	ended Discovery Mechanism					•			
MUST	Extended Discovery One LSR initiates	d Discovery Mechanis d differs from Basic Extended Discovery decides whether to 1	Discovery in the with another targe	ted LSR, and						
	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-4.20	RFC 3036, s2.4.2 p12 Exte	ended Discovery Mechanism								
MUST	Extended Discovery One LSR initiates	d Discovery Mechanis y differs from Basic Extended Discovery decides whether to 1	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	ended Discovery Mechanism								
MUST	Extended Discovery A targeted LSR tha	d Discovery Mechanis d differs from Basic at chooses to respond the initiating LSI	c Discovery in the nd does so by perio							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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	ended Discovery Mechanism								
MUST	Receipt of an LDP	d Discovery Mechanis Targeted Hello ider reachable at the r	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		lishment and Transpo DP 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	nent							
MUST	LSR1 (DUT) determi	lishment and Transpo ines the transport a 's end (A2) of the I	addresses to be use	d at its						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	Insport Connection Establishm	ent							
MUST	If LSR2 (ANVL) use	lishment and Transpo es the Transport Ado rtises via the optio	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	ent							
MUST	If LSR2 (ANVL) use	lishment and Transpo es the Transport Ado rtises via the optio	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	ent						•	•
MUST	LSR1 (DUT) determing in session establishment	lishment and Transpo ines whether it will ishment by comparing > A2, LSR1 plays the	play the active of 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	ent							
MUST	If A1 and A2 are r	lishment and Transpo not in the same addr no session can be e	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	ent							
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-5.20	NEGATIVE RFC 3036, s2.5.2 p14 Tran	nsport Connection Establishm	ent		•				•	
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	sion 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	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	ier for the ier for 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

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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 Ali								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: FAIL	Ubuntu 16.04: unpredict
ANVL-LDP-6.16	RFC 3036, s2.5.3 p16 Ses	ssion Initialization		1						
MUST		ation lays the active rol lization message, i								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-6.17	RFC 3036, s2.5.3 p16 Ses	ssion Initialization								
миѕт		ation lays the active rol accepted its propo								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-6.19	RFC 3036, s2.5.3 p16 Ses	ssion Initialization			•					
MUST		ation tle its session set ff in situations wh								
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-6.21	RFC 3036, s2.5.3 p16 Ses	ssion Initialization								
MUST	Initialization me specific session	ation lishment setup atte ssage must be delay establishment actio he session transpor	ed no less than 15 n that must be dela	seconds. [The yed is the						
	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-7.1	RFC 3036, s2.5.4 p18 Initi	alization State Machine								
MUST		ate Machine and Ses ZED, action is to t		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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-7.2	RFC 3036, s2.5.4 p18 Initi	alization State Machine								
MUST	In state INITIALI	ate Machine and Ses ZED if LSR receives ction is to transmi	an acceptable Init				P 22222			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-7.3	RFC 3036, s2.5.4 p18 Initi	alization State Machine								
MUST	In state INITIALI	ate Machine and Ses ZED if LSR receives tification msg (NAK	any other LDP 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

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ANVL-LDP-7.4	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST		ate Machine and Sess If LSR receives a Ko 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		ate Machine and Sess If LSR receives a Ko 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	ate 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-7.7	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPENREC i	ate 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-7.8	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST	In state OPENSENT	ate Machine and Sess if LSR receives an cransmit KeepAlive t	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	alization State Machine								
MUST	In state OPENSENT	ate Machine and Sessif LSR receives and ification msg (NAK	y other LDP msg, th							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-7.11	RFC 3036, s2.5.4 p18 Initia	alization State Machine								
MUST		ate Machine and Sess NAL if LSR receives AL.		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	ate Machine and Sess NAL if a timeout occ close transport com	curs, the action is	to transmit						
	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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	te Machine and Sess hold timer with ea ecceives a Hello tha	ch 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	te 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	te Machine and Sess o adjacency for a I session by sending ort connection.	DP 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	te Machine and Sess KeepAlive timer fo receives an LDP PD	or each peer session	n which it 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-7.19	RFC 3036, s2.5.6 p20 Mair	ntaining LDP Sessions									
MUST	If the KeepAlive t peer the LSR concl	the Machine and Sess timer expires without udes that the trans ed, and it terminate on.	t 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	ntaining LDP Sessions epAlive Message Procedures	S								
MUST	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 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		2017-04-03	2017-04-25	2017-03-17	2017-05-24	2017-00-02	2017-00-20	2017-00-30	2017-07-20
MUST	RFC 3036, s3.5.4.1 p63 Ke	eepAlive Message Procedure ate Machine and Ses								
		any protocol message		irement						
	Sessions" resets a received on the se provided 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 KeepA er information to consist peer receive as ime period. Any LDD re no other LDP pro-	timer every time a on. The KeepAlive live Timer in circu ommunicate to an LD on LDP Message from of 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 Ke	ntaining LDP Sessions eepAlive Message Procedure	s		•					
MUST	After an LDP sessits peer receive a period to ensure to the circumstances with the circumstance with t	ate Machine and Sesion has been estable an LDP PDU from it a the peer restarts the where an LSR has no ends a KeepAlive me	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 describ a session KeepAlive ession TCP connection reset of the KeepAler information to consist the second and the period. Any LDI re no other LDP programs, a KeepAlive message	timer every time a on. The KeepAlive live Timer in circu ommunicate to an LD LDP Message from 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	Initialization Sta		gion Mointainango							
		to terminate an LD hoose to do so, it	session with a pe							
	time; should it ch	to terminate an LD hoose to do so, it	session with a pe		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL
ANVL-LDP-8.5	time; should it che Shutdown message.  Ubuntu 16.04: pass	to terminate an LD: hoose to do so, it  Ubuntu 16.04: pass dependent Label Distribution	P session with a peinforms the peer wi  Ubuntu 16.04: pass	th a	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL
ANVL-LDP-8.5	time; should it che Shutdown message.  Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 ln RFC 3036, s2.8.3 p28 Discussion When using independent of the should be	to terminate an LD: hoose to do so, it  Ubuntu 16.04: pass dependent Label Distribution cussion	Ubuntu 16.04: pass Control	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
	time; should it che Shutdown message.  Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 In RFC 3036, s2.8.3 p28 Disc  Label Distribution When using independent mappings to its new In the case of included Mapping mess	Ubuntu 16.04: pass dependent Label Distribution cussion  n and Management and LD.	Ubuntu 16.04: pass  Control  each LSR may adverte it desires.  tribution, an LSR more receiving a Lab	Ubuntu 16.04: pass ise label ay originate a	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL
	time; should it che Shutdown message.  Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 In RFC 3036, s2.8.3 p28 Disc  Label Distribution When using independent mappings to its new In the case of included Mapping mess	Ubuntu 16.04: pass  dependent Label Distribution cussion  n and Management ndent LSP control, eighbors at any time dependent label dissage for an FEC before	Ubuntu 16.04: pass  Control  each LSR may adverte it desires.  tribution, an LSR more receiving a Lab	Ubuntu 16.04: pass ise label ay originate a	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: FAIL  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: FAIL  Ubuntu 16.04: pass
	time; should it che Shutdown message.  Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 In RFC 3036, s2.8.3 p28 Disc  Label Distribution When using independent mappings to its new In the case of included Mapping message from its company to the company of the company	Ubuntu 16.04: pass  dependent Label Distribution cussion  n and Management ndent LSP control, eighbors at any time dependent label dissage for an FEC befodownstream peer for	Ubuntu 16.04: pass  Control  each LSR may adverte it desires.  tribution, an LSR more receiving a Lab that FEC.  Ubuntu 16.04: pass	Ubuntu 16.04: pass  ise label  ay originate a el Mapping						
MAY	time; should it che Shutdown message.  Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 In RFC 3036, s2.8.3 p28 Disc  Label Distribution When using independant mappings to its new Label Mapping message from its of Ubuntu 16.04: pass  RFC 3036, s2.6.1.1 p21 In Label Distribution When operating in	Ubuntu 16.04: pass  dependent Label Distribution cussion  n and Management and the Label Distribution cussion  n and Management and the Label distribution dependent label distribution cussion  Ubuntu 16.04: pass  dependent Label Distribution  n and Management independent Downst  mapping for a FEC	Ubuntu 16.04: pass Control  each LSR may adverte it desires.  tribution, an LSR more receiving a Lab that FEC.  Ubuntu 16.04: pass Control	Ubuntu 16.04: pass  ise label  ay originate a el Mapping  Ubuntu 16.04: pass  de, an LSR may						

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ANVL-LDP-8.20	RFC 3036, s2.6.2.2 p22-23	3 Liberal Label Retention Mod	le							
MUST	a peer LSR is reta	n and Management l label retention, e ained regardless of d 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	3 Liberal Label Retention Mod	le	•	•					
MUST	a peer LSR is reta	n and Management l label retention, e ained regardless of d mapping. (Known FF	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 lo	dentifiers and Next Hop Addr	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 Addr	esses	-	-					
MUST	To retrieve the la	nd Next Hop Addresse abel the LSR must be an LDP Identifier.		ext hop address						
	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	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-9.5	RFC 3036, s2.7 p23 LDP lo	dentifiers and Next Hop Addr	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 fro that peer is curre It needs to start u	ntly a next hop sing the newly						
	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-9.8	RFC 3036, s2.7 p24 LDP lo	dentifiers and Next Hop Addr	esses							
MUST		nd Next Hop Addresse ddress message to ac		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 lo	dentifiers and Next Hop Addre	esses							
MUST		nd Next Hop Addresse thdraw 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	l Specification								
MUST		ationPDUs and FEC carry one or more 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

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ANVL-LDP-15.3	RFC 3036, s3 p31 Protoco	Specification										
MUST		ationPDUs and FEC sages in an LDP PDU		d to one								
	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	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		
ANVL-LDP-15.4	NEGATIVE RFC 3036, s3.1 p31 LDP F	PDUs										
MUST		Protocol SpecificationPDUs and FEC TLVs Cach LDP PDU is an LDP header followed by one or more LDP messages.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-15.5	RFC 3036, s3.1 p31-32 LD	P PDUs										
MUST	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 specifications of the specification of the Version PDU Length is negotor to completion of	fying the total lend and PDU Length field iable when an LDP state the negotiation the state identify the LSI a 32-bit router Id in loop detection is space within the LSI and the state is the state of	ngth of this lds. The session is 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		
ANVL-LDP-15.7	RFC 3036, s3.3 p32-33 Typ	•	Country 1010 II pass	obalita roto ii pado	Country to to the page	obalita roto ii pado	ozama rom nipado	ocama roto ii pass	Country to the passes	Country to to the page		
MUST	Protocol Specifica Validate LDP TLV e An LDP TLV is enco a Type and 2 bits	ationPDUs and FEC encoding from DUT. 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	CTLV	Ubuntu 16.04: pass	Ubuntu 16.04: pass	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, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specifica	CTLV	TLVs		Ubuntu 16.04: pass							
	RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specifica Each FEC is specif	CTLV CTLV ationPDUs and FEC	TLVs or more FEC elemen	nts.	Ubuntu 16.04: pass							
	RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specificate Each FEC is specificated. A FEC is a list of items.  Note that this veri	CTLV CTLV ationPDUs and FEC Fied as a set of one	TLVs or more FEC elements. The FEC The state of multiples the use of multiples.	nts. LV encodes FEC	Ubuntu 16.04: pass							
	RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specificate Each FEC is specificated. A FEC is a list of items.  Note that this veri	CTLV CTLV ationPDUs and FEC Fied as a set of one one or more FEC el	TLVs or more FEC elements. The FEC The state of multiples the use of multiples.	nts. LV encodes FEC	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass	Ubuntu 16.04: pass  Ubuntu 16.04: pass		
	RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specificate Each FEC is specificated as a list of items.  Note that this verelements per FEC for the same second statements per FEC for the same shows the same second statements and same second s	CTLV ationPDUs and FEC fied as a set of one cone or more FEC el rsion of LDP support for the Label Mappir	TLVs or more FEC elements. The FEC The state of multiple message only.	nts. LV encodes FEC ple FEC								
MUST	RFC 3036, s3.4.1 p34 FEC RFC 3036, s3.4.1 p35 FEC Protocol Specificateach FEC is specificateach FEC is a list of items.  Note that this verelements per FEC for Ubuntu 16.04: pass RFC 3036, s3.4.1 p34-35 FEC RFC 3036, s3.4.1 p3	CTLV CTLV ationPDUs and FEC fied as a set of one fied one or more FEC el rsion of LDP support for the Label Mappir Ubuntu 16.04: pass FEC TLV ationPDUs and FEC	TLVs or more FEC elements. The FEC The second secon	nts. LV encodes FEC ple FEC								

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ANVL-LDP-15.12	RFC 3036, s3.4.1 p35 FEC	TLV			•		•		•	
MUST	A FEC Element valu	e Value	l octet field that	ype-dependent						
	Prefix 0x0 Host Address 0x0	See below.	cess; see below.	see Delow)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 message only. Other [than Label Mother [than Label Mother]							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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	CTLV 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 c	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	: TLV .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 deco ntaining 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, Addres 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 Add	ress List TLV								
MUST		ationLabel, Addressess encodings are of Address Encoding 4 octet full IPv4	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	op Count Procedures								
SHOULD	for the LSP that c	res n LSP an LSR R may n contains the Hop Cou nnt 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.	ages 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	LV 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	nan a Notification meter.	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	ification Messages, n unknown [LDP] mess notification is ret	sage, if Unknown Me	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	ification Messages, n unknown [LDP] mess ne unknown message	sage, if Unknown Me	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		, 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		, 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		, 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		ddress Message Procedures								
SHOULD	When a new LDP ses or Label Request m	ification Messages, ssion is initialized messages an LSR show e or more Address me	d and before sending ald advertise its in	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 ne address with an A 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 al	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 : nis 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 connect: The LDP Identifier : 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	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiverThis i	Notification Messa ed on a TCP connecti The LDP protocol ve as a fatal error sig de. (DUT takes passi	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	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiver, or it is the session during	Notification Messa ed on a TCP connection The LDP protocol versions supported but is represented but is represented by the protocol Version	on for an LDP sessersion is not supported the version negates. This is a fai	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 M	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (2) receiverThis i	v Notification Messa ed on a TCP connection The LDP protocol ve as a fatal error signer.	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-22.9	NEGATIVE RFC 3036, 3.5.1.2.1 p49 M	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3)	Notification Messa ed on a TCP connecti The PDU Length fiel cror 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 M	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	Notification Messa ed on a TCP connecti The PDU Length fiel s is a fatal error s 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	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	Notification Messa ed on a TCP connecti 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 M	lalformed PDU or Message								
MUST	An LDP PDU receive malformed if: (3) PDU length). This	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 M	lalformed PDU or Message								
MUST	An LDP Message is the Message Type i signaled by the Un	Notification Messa malformed if: (1) T s 0x8000 (high ord known 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 M	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	nknown or Malformed TLV								
MUST	Malformed TLVs con	Notification Messa ntained in LDP messa	ages that are part o							
	message.	sm are handled by si	ilently discarding t	the containing						
	_	ubuntu 16.04: pass	Ubuntu 16.04: pass	the containing  Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-22.17	message.	Ubuntu 16.04: pass	-		Ubuntu 16.04: pass					
ANVL-LDP-22.17 MUST	message.  Ubuntu 16.04: pass  RFC 3036, 3.5.1.2.2 p50 U  Events Signaled by A TLV contained in LDP is malformed in indicates that the	Ubuntu 16.04: pass	Ubuntu 16.04: pass  ages beived on a TCP compth is too large, the the end of the constant of t	Ubuntu 16.04: pass  nection of an hat is, ntaining	Ubuntu 16.04: pass					
	message.  Ubuntu 16.04: pass  RFC 3036, 3.5.1.2.2 p50 U  Events Signaled by A TLV contained in LDP is malformed in indicates that the message. This is	Ubuntu 16.04: pass  nknown or Malformed TLV  Notification Messa an LDP message rec af: (1) The TLV Leng TLV extends beyond	Ubuntu 16.04: pass  ages beived on a TCP compth is too large, the the end of the constant of t	Ubuntu 16.04: pass  nection of an 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	Ubuntu 16.04: pass  Ubuntu 16.04: pass
	message.  Ubuntu 16.04: pass  RFC 3036, 3.5.1.2.2 p50 U  Events Signaled by A TLV contained in LDP is malformed in indicates that the message. This is Code.	Ubuntu 16.04: pass  nknown or Malformed TLV  Notification Messa an LDP message rec f: (1) The TLV Leng TLV extends beyond a fatal error signa  Ubuntu 16.04: pass	Ubuntu 16.04: pass  ages reived on a TCP compth is too large, the three too large and the contact of the contact of the second three too large and the second three too large and the second three too large and the second three too large and three	Ubuntu 16.04: pass  nection of an hat is, ntaining Length Status						
MUST	message.  Ubuntu 16.04: pass  RFC 3036, 3.5.1.2.2 p50 U  Events Signaled by A TLV contained in LDP is malformed i indicates that the message. This is Code.  Ubuntu 16.04: pass  RFC 3036, 3.5.1.2.2 p50 U  Events Signaled by A TLV contained in LDP is malformed in DP is malformed in 0x8000 (high order	Ubuntu 16.04: pass  nknown or Malformed TLV  Notification Messa an LDP message rec et: (1) The TLV Leng et TLV extends beyond a fatal error signa  Ubuntu 16.04: pass  nknown or Malformed TLV  Notification Messa an LDP message rec et: (2) The TLV type bit 0) it is an en ethe TLV type is >= 0	Ubuntu 16.04: pass  ages ceived on a TCP compth is too large, the contact of the contact of the contact of the series of the series of the contact of the co	Ubuntu 16.04: pass  nection of an hat is, ntaining Length Status  Ubuntu 16.04: pass  nection of an he TLV type is to Unknown TLV						

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									a project by the Network Device Education Foundat	on, life (www.ivetbell.org)
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ANVL-LDP-22.19	RFC 3036, 3.5.1.2.2 p50 U	nknown or Malformed TLV		•	•		•			
MUST	A TLV contained in LDP is malformed in the receiver handlinterpreted as inc	Notification Messa n an LDP message red f: (3) The TLV Valu les the TLV but cam dicative of a bug in al 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	Events Signaled by Timer expiration in Expired Status Cook	Notification Messa s a fatal error sig de.	ages gnaled by the KeepA	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	v Notification Messa yent signaled by the age may optionally if for the Shutdown. If by after sending the	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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL
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.	Notification Messation may be capable in may be capable mplementation. When minteracting corrections, when capable of 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		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		eld is reserved. I	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 Hel	lo Messages	•		•					
MAY	unsigned configuration sta	iguration Sequence i ation sequence numb te of the sending L ration changes on t	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	the interval between the the the the the the the the the 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 in ed 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: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL
ANVL-LDP-24.1	RFC 3036, s3.5.3 p55 Initi	alization Message								
MUST	Initialization Me Validate Initiali	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 me								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 confi detection is disab		vector length.						

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ANVL-LDP-24.14	RFC 3036, s3.5.3 p57 Initia	alization Messages								
MUST		ssages 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
ANVL-LDP-24.15	RFC 3036, s3.5.3 p57 Initia	alization Messages								
MUST	allowable length	ssages Two octet unsigned : 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 In	ssages tifier - If there is ession Rejected/No I nitialization messag incorrect LSR Id,	Hello Notification ge and not establis	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 tifier - If there is ession Rejected/No I nitialization messag correct LSR Id, inc	Hello Notification ge and not establis	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	abel Mapping Message Proce	dures							
MUST	Prefix or Host Add	a Label Mapping mess dress FEC Element sl its routing table o	nould not use the l	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	Independent Control Mapping	)							
MUST		sages for Independent Con 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	Independent Control Mapping	9							
MUST	Label Mapping Mess An LSR configured when the attribute	sages for Independent Co es of a mapping cha	ntrol sends a mappi nge.	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	g	•	•	•			•			
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: FAIL	Ubuntu 16.04: FAIL		
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 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	RFC 3036, s3.5.8.1 p71 La RFC 3036, s3.5.8.1 p71 La	abel Request Message Proce abel Request Message Proce	dures dures									
MUST	a Host Address FEG to determine its in that exactly match must respond with A Notification mes	which a label is red C Element, the rece response. Unless i hes the requested Pa a No Route Notifica ssage that signals a	iving LSR uses its ts routing table in refix or Host Addre ation message.	routing table cludes an entry ss, the LSR								
		he following Status				l						
	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: untested	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested		
ANVL-LDP-28.12	RFC 3036, s3.5.10 p74 La											
MUST		st Messages, Label Mithdraw Message		Label Release Messa	ages			1				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	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 of Label withdraw means that the LSR no longer readvertised a label; ., via configuration a 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	Askel Abort Request Messages, Label Withdraw Messages, Label Release Messages The FEC TLV may contain the Wildcard FEC Element; if so, it may contain no other FEC Elements. In this case, ifthere is not an optional Label TLV in the Label Withdraw message, then the sending LSR is withdrawing all label mappings previously advertised to the receiving LSR.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		

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ANVL-LDP-28.21	RFC 3036, s3.5.11 p76 Lab	bel Release Message		•			•			
MUST		st Messages, Label Wessage encod:		Label Release Messa	ges					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 Lab	bel Release Message		•						
MUST	1	t Messages, Label V Label TLV encoding	<b>5</b> ,	Label Release Messa Release	ges					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 nit a Label Release ons: (3) The LSR red	message under any		ges					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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	abel Release Message Proc	edures							
MUST	Note that if an LS message will never as specified above mapping is no long LSR keeps each unu	or messages, Label Was a configured for the transmitted in the case [Label Was a case [Label Was a case [Label Was a case [Label Was a case ]]. The case of the ca	r "liberal mode", a the case of condit SR which sent the l r the mapped FEC], it can immediately	ion (1) abel the upstream be used later	ges					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass
ANVL-LDP-28.27	RFC 3036, s3.5.11.1 p77 L	abel Release Message Proc	edures							
MUST	Note that if an LS message will never as specified above from an LSR which keeps each unused	st Messages, Label Was is configured for be transmitted in a . In this case [Label is not the next hope label, so that it can be becomes the next here.]	r "liberal mode", a the case of condit SR receives a label o for the FEC], the can immediately be	ion (2) mapping upstream LSR	ges					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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 L	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 The TCP port for e	s, Name Spaces establishing LDP ses	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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						•	•		-			
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ANVL-LDP-32.1	NEGATIVE RFC 3036, s5.1 p86 Spoofing RFC 3036, s5.3 p87 Denial of Service											
	Security Considerations An LSR can reduce the threat of spoofed Basic Hellos by accepting Basic Hellos only on interfaces to which LSRs that can be trusted are directly connected.											
	LDP provides two potential targets for denial of service (DoS) 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 not initiate such an attack.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL		
ANVL-LDP-32.4	NEGATIVE RFC 3036, s5.1 p86 Spoof	ïng										
MUST	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list. (DUT is passive for session establishment)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-32.5	RFC 3036, s5.1 p86 Spoof	ing										
MUST	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list. (DUT is active for session establishment)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-32.6	RFC 3036, s5.1 p86 Spoof	ing										
MUST	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list.											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-32.7	NEGATIVE RFC 3036, s5.1 p86 Spoof	ing										
MUST	Security Considerations An LSR can reduce the threat of spoofed Extended Hellos by filtering them and accepting only those originating at sources permitted by an access list.											
	Ubuntu 16.04: pass	Ubuntu 16.04: 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		
ANVL-LDP-32.10	NEGATIVE RFC 3036, s5.1 p86 Spoof	ing										
MUST		ations the threat of spoot sed to the All Route										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		

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ANVL-LDP-33.4	RFC 3036, Appendix A.1.1 p97 Receive Label Request											
MUST	If there is no Nex	Receive Label Request If there is no Next Hop, Execute procedure Send_Notification (MsgSource, No Route)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
ANVL-LDP-34.2	RFC 3036, Appendix A.1.2	p99 Receive Label Mapping	J									
MUST	If the received la request for FEC property and LSR does not he many for the Hop for the FEC, a label mapping for MsgSource.	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	p99 Receive Label Mapping	)									
MUST	request for FEC prand LSR does not he MsgSource for the for the FEC, and he LSR has previously question, and for label mapping are each peer that LSR record label mapping MsgSource, and sem mapping for FEC present, and perform	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->										
	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-34.5	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 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.											
	request for FEC prand LSR does not he MsgSource for the for the FEC, and he LSR has not previous question, and if he ho label requests mapping for FEC wand perform LSR Label here.	reviously sent to Manave a previously real LSP in question, as LSR is not ingress sously sent a label of ordered control for FEC from peer to the label and receivable Use procedure.	sgSource, and no loceceived label mappind the MsgSource is for FEC, and for each mapping for FEC for is not in use by LS marked as pending, wed attributes from	op detected, ng for FEC from the Next Hop ch peer that the LSP in R, and LSR has record label MsgSource,								

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ANVL-LDP-34.11	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 has a previously received label mapping for FEC from MsgSource for the LSP in question, and the label previously received from MsgSource does not match label received in message, execute procedure Send_Message(MsgSource, Label Release, FEC, Label). (LMp.1->3->9->10->32->33)										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
ANVL-LDP-34.13	RFC 3036, Appendix A.1.2	p99 Receive Label Mapping			-						
MUST	request for FEC pr and LSR does have MsgSource for the from MsgSource mat MsgSource is not t	abel mapping does not reviously sent to Make a previously received LSP in question, and the Next Hop for the record label mapping agource.	ot match an outstand sgSource, and no low wed label mapping found the label previous d in the message, as a FEC, and LSR is us g for FEC with labe	op detected, or FEC from usly received nd the sing liberal							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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	p99 Receive Label Mapping									
Receive Label Mapping Part One If the received label mapping does not match an outstanding label request for FEC previously sent to MsgSource, and no loop detected, and LSR has a previously received label mapping for FEC from MsgSource for the LSP in question, and the label previously received from MsgSource 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->33)											
	Ubuntu 16.04: FAIL	1 1 1 10 04 5411									
	Obulitu 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	p99 Receive Label Mapping		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  MUST	RFC 3036, Appendix A.1.2  Receive Label Mapp If the received larequest for FEC prand LSR has a previous for the LSP in que MsgSource matches the Next Hop for the peer that LSR has LSP in question, at LSR has no label a label mapping for MsgSource, and per the state of the label mapping for MsgSource, and per label mapping for MsgSource	ping Part One abel mapping poing Part One abel mapping does not reviously sent to May viously received label abel received in the FEC, and LSR is not previously sent and if DU ordered corequests for FEC from FEC with label and rform LSR Label Use	ot match an outstanding source, and no loosel mapping for FEC el previously receithe message, and the not ingress for FEC to a label mapping frontrol is not in usum peer marked as preceived attribute.	ding label op detected, from MsgSource ved from e MsgSource is C, and for each or FEC for the e by LSR, and ending, record s from	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-34.23	RFC 3036, Appendix A.1.2	2 p99 Receive Label Mapping			•			•			
MUST	FEC previously ser not have a previous for the LSP in que FEC, and LSR is not previously sent a for each peer that are not consistent LSR does not have outstanding FEC late and received attripeer and update repeer to include the procedure.	ping Part One abel mapping matches at to MsgSource, and usly received label estion, and the MsgSource for ingress for FEC, label mapping for the received attribute with those previous any pending label request, recordibutes from MsgSource for of label mapping ne new attributes set 11->12->14->16->17-	In no loop detected, mapping for FEC from the Next in and for each peer FEC for the LSP in the sin the received is sent, and for requests for FEC, did label mapping for the ce, and send a labeting for FEC previous ent, and perform LSE	and LSR does om MsgSource Hop for the that LSR has question, and label mapping each peer that elete record of FEC with label l mapping to sly sent to R Label Use							
	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	oina								
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	)		-	-	-				
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.  LR1.1->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	
ANV/   DD 27.40	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 Release  Receive Label Release, Receive Label Withdraw  Note 1: If LSR is using Downstream Unsolicited label distribution, it should not re-advertise a label mapping for FEC to MsgSource until										
MUST	Receive Label Rele	ease, Receive Label using Downstream Unertise a label mapp	Withdraw nsolicited label di								

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### 1875 1986, Appendix A 15 pr 118 records from formation and in the following interest property and interest							•			-			
RECURS Aground   Service			I .										
Note   Proceeding   Labor   Microsophic and process   Microsophic an	ANVL-LDP-37.13				•	•		•	•	•			
MUST   10   Must 10.04 page	MUST	An LSR that receive	ves a Label Withdra		ond with a								
MUST    March   Post		switching use and Execute procedure Send Message (MsgSource, Label											
MUST  ANYLLDP-93 ANYLLDP-42 September Course of the Course		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
which "examine a new PSC white configured for Downstream Unrollected Industry independent (Unroll). If Doke the configured for Downstream Unrollected Industry Industry (Unroll)   Downstream PSC (Unrollected Industry)   Downstream PSC (Unrollected Industry)	ANVL-LDP-38.2	RFC 3036, Appendix A.1.6	p111 Recognize New FEC										
ANVLLDP-8.3 BC 2009. Appends A 18 pt 11 Recognise New FEC	MUST	When learning a new Independent Control mapping from the I LSR Label Distribution	Recognize New FEC When learning a new FEC while configured for Downstream Unsolicited Independent Control, if LSR does not have previously retained label mapping from the Next Hop for FEC, and Next Hop is not a peer, repeat LSR Label Distribution procedure (FEC.1) for each Peer.										
### RF0 3009, Approxis A.1.6/113 Recipious Note FEC ### Recognizer New PEC while configured for howesteroom the able to applying from the Rext Hop For FEC, repeat LEAR Labels Distribution procedure (FEC.1) ### RF0 3009, Approxis A.1.6/113 Recipious for howesteroom the Rext Hop For FEC, repeat LEAR Labels Distribution procedure (FEC.1) ### RF0 3009, Approxis A.1.6/113 Rest a labels Labels Distribution procedure (FEC.1) ### RF0 3009, Approxis A.2.1.1/213 Read Labels Distribution procedure (FEC.1) ### RF0 3009, Approxis A.2.1.1/213 Read Labels ### RF0 3009, Approxis A.2.1.1/213 Read Labels Registers (FEC.1) ### RF0 3009, Approxis A.2.1.1/213 Read Labels (FEC.1) ###		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
Recognise New File will constituted to Doubletees Book Service Constituted Service Service Constituted Service Service Constituted Service Service Constituted Service	ANVL-LDP-38.3					•							
## should behave as if it had just received the label from the Next Hop. This occurs in the case of Liberal label retention mode.  ## Ubuntu 16.04: FAIL	WOSI	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 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 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.    Ubuntu 16.04: pass		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		
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.    Ubuntu 16.04: pass   Ubuntu 1	ANVL-LDP-42.3	RFC 3036, Appendix A.2.1	p121 Send_Label										
ANVL-LDP-42.11  RFC 3036, Appendix A 2.6 p126 Check_Received_Attributes  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	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 attributed Detected.	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 and Hop Count does not exceed Max allowable hop count, and received attributes do not include Path Vector, return No Loop Detected. (CRa.1->2->3->5)		Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: 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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