



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7a377a1	7acf817	ed02df4	
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-03-12	2018-06-04	2018-06-08	
ANVL-ISISV6-1.1	ISO/IEC 10589:1992	ISO/IEC 10589:1992(E)s9.5 p49 Level 1 LAN IS to IS hello PDU							
MUST	Level 1 LAN IS 1. Intra-domai 2. PDU type =	tocol ID extens	DU must have ocol Discrimina	tor = 0x83					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-1.2	ISO/IEC 10589:1992	(E)s9.5 p49 Level 1 LA	AN IS to IS hello PDU						
MUST	Level 1 LAN IS to IS Hello PDU Bit 6-8 of PDU Type (5th octet), Reserved (7th octet), bit 3-8 of Reserved/Circuit Type (9th octet) and 8th bit of Priority are reserved which are always set to zero in Level 1 LAN IS to IS hello PDU.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-1.3	ISO/IEC 10589:1992	(E)s9.5 p49 Level 1 LA	AN IS to IS hello PDU							
MUST	The valid ID I 1. An Integer the correspond 2. The Value z	between 1 and a ling length zero, which ind	DU all take any on 8, inclusive, i icates a six oc s a null ID fie	ndicating an II tet ID, field I) field of Length					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.4	ISO/IEC 10589:1992	SO/IEC 10589:1992(E)s9.5 p49-50 Level 1 LAN IS to IS hello PDU								
MUST	Level 1 LAN IS to IS Hello PDU In a LAN Level 1 IIH the Circuit Type must be either 1 or 3									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.5	ISO/IEC 10589:1992(E)s9.5 p50 Level 1 LAN IS to IS hello PDU RFC 1195 s5.3.1 p37-38 Level 1 LAN IS to IS hello PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID Level 1 LAN IS to IS Hello PDU The valid Codes that must be present in the VARIABLE LENGTH FIELD of Level 1 LAN IS to IS hello PDU are: Area Address Authentication Information Protocols Supported IPv6 Interface 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		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-1.6	RFC 1195 s4.4 p32 Maintaining Router Adjacencies s5.2 p34 Overview of IP-specific Information for IS-IS									
MUST	Level 1 LAN IS to IS Hello PDU The Protocol supported field must be present in all IS-IS Hello Packets send by IP-only routers									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.7	NEGATIVE : RFC 11	NEGATIVE : RFC 1195 s4.4 p32 Maintaining Router Adjacencies								
MUST	Level 1 LAN IS to IS Hello PDU The Protocol Supported field must be present in all IS-IS Hello Packets send by IP-only routers									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.8	ISO/IEC 10589:1992	(E)s9.6 p51 Level 2 LA	N IS to IS hello PDU							
MUST	Level 1 LAN IS to IS Hello PDU Level 2 LAN IS to IS hello PDU must have 1. Intra-domain Routing Protocol Discriminator = 0x83 2. PDU type = 16 3. Version/Protocol ID extension = 1 4. Version = 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		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-1.9	ISO/IEC 10589:1992	(E)s9.6 p51 Level 2 LA	AN IS to IS hello PDU							
MUST	Bit 6-8 of PDU Reserved/Circu	S to IS Hello Pl J Type (5th octo Lit Type (9th oc Lare always se	et), Reserved (ctet) and 8th b	it of Priority	are					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.10	ISO/IEC 10589:1992	O/IEC 10589:1992(E)s9.6 p51 Level 2 LAN IS to IS hello PDU								
MUST	The valid ID I 1. An Integer the correspond 2. The Value 2	S to IS Hello Placength field shabetween 1 and String length zero, which independ the string string to the string	all take any on 8, inclusive, i icates a six oc	ndicating an II tet ID, field I) field of Length					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-1.11	ISO/IEC 10589:1992	(E)s9.6 p51 Level 2 LA	AN IS to IS hello PDU					-		
MUST		S to IS Hello Pl L 2 IIH the Circ		be either 2 or	3					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-1.12 MUST	ISO/IEC 10589:1992(E)s9.6 p51-52 Level 2 LAN IS to IS hello PDU RFC 1195 s5.3.2 p38-39 Level 2 LAN IS to IS hello PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID									
	The valid Code		present in the	· VARIABLE LENG	TH FIELD					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-1.13		Maintaining Router Adj f IP-specific Information								
MUST	The Protocol s	S to IS Hello Plant Supported field By IP-only route	must be presen	t in all IS-IS	Hello					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-1.14	NEGATIVE : RFC 11	95 s4.4 p32 Maintainir	g Router Adjacencies							
MUST	Level 1 LAN IS to IS Hello PDU The Protocol Supported field must be present in all IS-IS Hello Packets send by IP-only routers									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-1.19	RFC 1195 s3.1 p15 Exchange of Routing information RFC 5308 s4 p4 IPv6 NLPID										
MUST	Level 1 LAN IS to IS Hello PDU IP capable routers need to know what network layer protocols are supported by other routers in their area										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-1.20		Multiple IP Addresses p 6 Interface Address TL									
MUST	Level 1 LAN IS to IS Hello PDU Each interface corresponding to the SNPA over which is transmitted can have maximum of 15 IPv6 addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-1.21	RFC 1195 s3.1 p15 E RFC 5308 s4 p4 IPv6	Exchange of Routing in NLPID	formation								
MUST	IP capable rou	s to IS Hello Platers need to know ther routers in	now what networ	k layer protoco	ols are						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-1.22	RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV									
MUST	Level 1 LAN IS to IS Hello PDU Each interface corresponding to the SNPA over which is transmitted can have maximum of 15 IPv6 addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-1.23		NEGATIVE :RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV								
MUST	Each Interface PDU is transmi We necessarily	S to IS Hello Procession of the corresponding atted can have a modify the corrected of 0-63 4 corrected.	to the SNPA ov a maximum of 15 ntents to be 0-	IPv6 Addresses	3					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	unpredict	pass	pass	unpredict	unpredict	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
ANVL-ISISV6-1.24		95 s4.2 p31 Multiple IP 6 Interface Address TL		ce						
MUST	Level 1 LAN IS to IS Hello PDU Each Interface corresponding to the SNPA over which a L1 LAN IIH PDU is transmitted can have a maximum of 15 IPv6 Addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	unpredict	pass	pass	unpredict	unpredict	pass	unpredict		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		





	Release	Release	Release	Release	Release	Release	Master	Release	
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0	
ANVL-ISISV6-1.25	RFC 5308 s3 p4 IPv6	6 Interface Address TL	V						
MUST	For LSPs the "	S to IS Hello PI Interfaces Adda IPv6 addresses	ress" TLVs MUST		the				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	
ANVL-ISISV6-1.26	RFC 5308 s3 p4 IPv6	RFC 5308 s3 p4 IPv6 Interface Address TLV							
MUST	Level 1 LAN IS to IS Hello PDU For LSPs the "Interfaces Address" TLVs MUST contain only the non-link-local IPv6 addresses assigned to the IS.								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	
ANVL-ISISV6-2.1	ISO/IEC 10589:1992	(E) s9.8 p54 Level 1 L	SPDU						
MUST	Level 1 LSPDU Test that the level 1 LSP must have Intradomaim Routing Protocol Discriminator = 0x83, PDU Type = 18, Version/Protocol ID extension (2nd octet) = 1 and Version (6th octet) = 1 in the Header								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6-2.2	ISO/IEC 10589:1992	(E) s9.8 p54 Level 1 L	ink State PDU								
MUST	Level 1 LSPDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 1 Link State PDU										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-2.3	ISO/IEC 10589:1992	(E) s9.8 p54-55 Level	1 Link State PDU								
MUST	Level 1 LSPDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-2.4 MUST	ISO/IEC 10589:1992(E) s9.8 p54-55 Level 1 Link State PDU RFC 1195 s5.3.4, p40-43 Level 1 Link State PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID										
	of level 1 lir Area Addresses Intermediate s Protocols Supp	Level 1 LSPDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 link state PDU are: Area Addresses Intermediate system Neighbors Protocols Supported IPv6 Reachability Information									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-2.11	ISO/IEC 10589:1992(E) s9.9 p57 Level 2 LSPDU Level 1 LSPDU Test that the level 2 LSP must have Intradomaim Routing Protocol Discriminator =0x83, PDU Type=20, Version/Protocol ID extension(3rd octet) = 1 and Version (6th octet) = 1 in the Header									
MUST										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-2.12	2 ISO/IEC 10589:1992(E) s9.9 p57 Level 2 Link State PDU									
MUST	Level 1 LSPDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 2 Link State PDU									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-2.13	ISO/IEC 10589:1992	(E) s9.9 p57 Level 2 Li	nk State PDU							
MUST	Level 1 LSPDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-2.14 MUST	ISO/IEC 10589:1992(E) s9.9 p57-59 Level 2 Link State PDU RFC 1195 s5.3.5,p43-48 Level 2 Link State PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID									
	Level 1 LSPDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 2 link state PDU are: Area Addresses Intermediate system Neighbors Protocols Supported IPv6 Reachability Information									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-2.17	RFC 1195 S3.1 P15	Exchange of routing in	formation							
MUST	Level 1 LSPDU IS-IS requires that any codes in a received PDU that are not recognized are ignored and passed through unchanged									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-2.18	RFC 1195 S3.1 P15	Exchange of routing in	formation							
MUST		s that any codes e ignored and pa			not					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0				
ANVL-ISISV6-3.1	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) s9.10 p60 Level 1 complete sequence numbers PDU										
MUST	Level 1 comple	ete Sequence Nu ete sequence nu riminator = 0x8 d octet) = 1 and	mber PDU must h 3, PDU Type = 2	4, Version/Prot	cocol ID							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-ISISV6-3.2	ISO/IEC 10589:1992	ISO/IEC 10589:1992(E) s9.10 p60 Level 1 Complete sequence number PDU										
MUST	Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 1 complete sequence											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass				
ANVL-ISISV6-3.3	ISO/IEC 10589:1992	(E) s9.10 p57 Level 1	complete sequence no	umbers PDU								
MUST	Level 1 Complete Sequence Numbers PDU The valid ID Length field in a Level 1 Complete Sequence Number PDU shall take any one of these following values: 1. An integer between 1 and 8, inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)											
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass				
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass				





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-3.4	ISO/IEC 10589:1992(E) s9.10 p60-61 Level 1 complete sequence numbers PDU RFC 1195 s5.3.6,p48-49 Level 1 complete sequence numbers PDU										
	Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 complete sequence numbers PDU are: 1. LSP Entries 2. Authentication Information										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass								
ANVL-ISISV6-3.5	ISO/IEC 10589:1992(E) s9.10 p61-62 Level 2 complete sequence numbers PDU										
MUST	Level 1 Complete Sequence Numbers PDU Level 2 complete sequence number PDU must have Intra-domain Routing protocol Discriminator = 0x83, PDU Type = 25, Version/Protocol ID extension (3rd octet) = 1 and Version (6th octet) = 1 in the header										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass									
ANVL-ISISV6-3.6	ISO/IEC 10589:1992	(E) s9.11 p62 Level 2	Complete sequence nu	ımber PDU							
MUST	Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 2 complete sequence numbers PDU										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
ANVL-ISISV6-3.7	ISO/IEC10589:1992(E) s9.11 p61-62 Level	2 complete sequence	numbers PDU			-		
MUST	The valid ID I shall take any 1. An integer coresponding 1 2. The value 2	one of these abetween 1 and a ength ero, which ind	a Level 2 Comp following value 3, inclusive, i icates a six oc	lete Sequence Messindicating an II tet ID, field I) field of Length				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-3.8	PDU	(E) s9.11 p62 Level 2 of Level 2 complete seq		mbers					
	Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 2 complete sequence numbers PDU are: 1. LSP Entries 2. Authentication Information								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-3.9	ISO/IEC 10589(E) s9	0.12 p62-63 Level 1 pa	rtial sequence number	s PDU					
MUST	Level 1 Complete Sequence Numbers PDU Level 1 partial sequence number PDU must have Intra-domain Routing protocol Discriminator=0x83, PDU Type=26, Version/Protocol ID extension (3rd octet)=1 and Version (6th octet)=1 in the header								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-3.10	ISO/IEC 10589:1992	(E) s9.12 p63 Level 1 _l	partial sequence numb	er PDU						
MUST	Bit 6-8 of PDU	ete Sequence Nur J Type (5th octo n are always se	et) and Reserve							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	unpredict	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-3.11	ISO/IEC 10589:1992	O/IEC 10589:1992(E) s9.12 p63 Level 1 partial sequence number PDU								
MUST	The valid ID I values: 1. An integer coresponding l 2. The value z	bete Sequence Numbers of S	all take any on 3 , inclusive, icates a six oc	indicating an I	ID field of					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	unpredict	unpredict	unpredict	pass	pass	pass		
ANVL-ISISV6-3.12		(E) s9.12 p63 Level 1 p Devel 1 partial seque		er PDU						
MUST	Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 partial sequence numbers PDU are: 1. LSP Entries 2. Authentication Information									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	unpredict	unpredict	unpredict	pass	pass	pass	pass	pass		





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6-3.13	ISO/IEC 10589(E) s9	0.12 p64-65 Level 2 pa	rtial sequence number	s PDU							
MUST	Level 2 partia protocol Discr	ete Sequence Num al sequence numb iminator=0x83, and Version (6	oer PDU must ha PDU Type=27, V	ersion/Protocol							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	unpredict	unpredict	pass	pass	unpredict	pass	pass	pass			
ANVL-ISISV6-3.14	ISO/IEC 10589:1992	(E) s9.12 p64 Level 2 p	partial sequence numb	er PDU							
MUST	Bit 6-8 of PDU	ete Sequence Nur J Type (5th octe n are always set	et) and Reserve								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	unpredict	pass	pass	unpredict	unpredict	pass	pass	pass			
ANVL-ISISV6-3.15	ISO/IEC 10589:1992	ISO/IEC 10589:1992(E) s9.12 p64 Level 2 partial sequence number PDU									
MUST	Level 1 Complete Sequence Numbers PDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive,indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means anull ID field(ie zero length)										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	unpredict	unpredict	pass	pass	pass	unpredict	pass	pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-3.16	ISO/IEC 10589:1992(E) s9.12 p64 Level 2 partial sequence number PDU RFC 1195 s5.3.9,p49 Level 2 partial sequence number PDU										
MUST	The valid code level 2 partia 1. LSP Entries	ete Sequence Nur es that must be al sequence numb s ion Information	present in the pers PDU are:	VARIABLE LENGT	TH FIELD 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-4.1	ISO/IEC 10589:1992	SO/IEC 10589:1992(E), s7.2.4, p14, Links									
MUST	Links IS discover neighbours and forms adjacencies by exchanging ISIS Hello PDUs.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-4.2	RFC 1195, s5.1, p33, Overview of ISIS PDUs										
MUST	-	Links Hello packets are used to initialize and maintain adjacencies between neighbouring ISs.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-4.3	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	lcast subnetwork IIH P	DUs							
MUST	Links An L1 IS shall transmit only L1 LAN IIHs.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-4.4	ISO/IEC 10589:1992	SO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs									
SHOULD		uinks on L1 IIH sent by L1 IS should contain the manualAreaAddresses and oAN Addresses of L1 IS adjacencies.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-4.5	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	lcast subnetwork IIH P	DUs			-				
MUST	Links An L1 IS shall address AllL1I	transmit L1 L	AN IIHs to the	multi-destinati	lon						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-4.6	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	lcast subnetwork IIH P	DUs							
MUST	Links L1 ISs shall l	Links L1 ISs shall listen on the multi-destination address AllL1ISs.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-4.7	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	cast subnetwork IIH P	DUs						
MUST	Links L1 ISs shall reject any L1 LAN IIH that doesn"t have the destination as AllL1ISs.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		
ANVL-ISISV6-4.8	ISO/IEC 10589:1992(E), s8.4.2.1, p44, IIH PDU acceptance tests									
SHOULD	Links If the IDLength of the L1 IIH is not equal to the value of the IS routingDomainIDLength, it should be discarded.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-4.9	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 LAN IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing									
SHOULD	Links If the received L1 IIH"s areaAddresses do not match any of the manualAreaAddresses of the L1 IS, it should reject the adjacency.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass pass pass pass pass pass pass pas									





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-4.10	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing										
MUST	Links If the received L1 IIHs areaAddress field matches any of the values from the manualAreaAddresses of the L1 IS, it shall accept the adjacency.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass									
ANVL-ISISV6-4.11	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing										
MUST	Links If the received L1 IIHs maximumAreaAddresses value is equal to the ISs maximumAreaAddresses, accept the PDU.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass									
ANVL-ISISV6-4.12	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs										
MUST		maximumAreaAdd		•	discard all						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass									





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-4.14	ISO/IEC 10589:1992	(E), s8.4.2.5.1, p45, N	ew Adjacencies							
MUST	Links When an L1 IS receives an L1 LAN IIH from another IS (R), then the next L1 IIH generated by the IS will include R.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-4.15	ISO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies									
MUST	Links When an L1 IS receives an L1 LAN IIH with its own entry, then it shall create an 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		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-4.16	ISO/IEC 10589:1992	(E), s8.4.2.5.2, p45, N	ew Adjacencies							
MUST	Links If a neighbour is not heard within the Holding Time, the L1 IS shall purge it from the database.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
ANVL-ISISV6-5.1	ISO/IEC 10589:1992	(E), s7.2.4, p14, Links							
миѕт	Broadcast Subnetwork IIH PDUs IS discover neighbours and forms adjacencies by exchanging ISIS Hello PDUs.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass FreeBSD 10.3: pass FreeBSD 10.3: pass FreeBSD 10.3: pass pass FreeBSD 10.3: pass pass pass pass pass pass pass pas								
ANVL-ISISV6-5.2	RFC 1195, s5.1, p33, Overview of ISIS PDUs								
MUST	Hello packets	Broadcast Subnetwork IIH PDUs Hello packets are used to initialize and maintain adjacencies between neighbouring ISs.							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-5.3	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	dcast subnetwork IIH P	DUs					
MUST		network IIH PDU transmit only							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-5.4	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	dcast subnetwork IIH P	DUs					
SHOULD	Broadcast Subnetwork IIH PDUs An L2 IIH sent by L2 IS should contain the manual Area Addresses and LAN Addresses of L2 IS adjacencies.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-5.5	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	dcast subnetwork IIH P	DUs						
MUST				multi-destinati	.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		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-5.6	ISO/IEC 10589:1992	SO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs								
MUST		roadcast Subnetwork IIH PDUs 2 ISs shall listen on the multi-destination address AllL2ISs.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-5.7	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	dcast subnetwork IIH P	DUs						
MUST		network IIH PDU reject any L2 L s AllL2ISs.		sn"t have 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		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		
ANVL-ISISV6-5.8	ISO/IEC 10589:1992	(E), s8.4.2.1, p44, IIH	PDU acceptance tests							
SHOULD	If the IDLengt	network IIH PDU th of the L2 III DLength, it sh	H is not equal	to the value of	the ISs					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-5.9	ISO/IEC 10589:1992	(E), s8.4.2.5.1, p45, N	ew Adjacencies							
MUST	Broadcast Subnetwork IIH PDUs When an L2 IS receives an L2 LAN IIH from another IS (R), then the next L2 IIH generated by the IS will include R.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-5.10	ISO/IEC 10589:1992	SO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies								
MUST	Broadcast Subnetwork IIH PDUs When an L2 IS receives an L2 LAN IIH with its own entry, then it shall create an adjacency.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-5.11	ISO/IEC 10589:1992	(E), s8.4.2.5.2, p45, N	ew Adjacencies							
MUST	Broadcast Subnetwork IIH PDUs If a neighbour is not heard within the Holding Time, the L2 IS shall purge it from the database.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-6.1	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	Icast subnetwork IIH P	DUs						
миѕт	More Broadcast Subnetwork IIH PDUs An L1/L2 IS shall create separate adjacencies on receipt of L1 and L2 LAN IIH.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict		
	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-6.2	ISO/IEC 10589:1992	D/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs								
MUST		re Broadcast Subnetwork IIH PDUs L1/L2 IS shall transmit both L1 and L2 LAN IIHs.								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-6.3	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	Icast subnetwork IIH P	DUs						
MUST	An L1/L2 IS sh	: Subnetwork II hall listen on Ll and L2 LAN I	the multi-desti	nation address	AllL1ISs and					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: unpredict	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict		
ANVL-ISISV6-6.4	ISO/IEC 10589:1992	(E), s8.4.2, p44, Broad	lcast subnetwork IIH P	DUs						
MUST		-		oesn"t have the	e destination					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-7.1	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-7.2	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-7.3		(E) s7.2.3 p14 Broadca Designated routers and									
MUST	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH and the MAC 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-7.4	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH and the MAC address										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-7.5	ISO/IEC 10589:1992	O/IEC 10589:1992(E) s8.4.5 p46 LAN designated IS									
MUST	Broadcast Subnetwork An L1 IS becomes an L1 Designated IS, it shall transmit L1 pseudonode LSP										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-7.6	ISO/IEC 10589:1992	(E) s8.4.5 p47 LAN de	signated ISs	•		•					
MUST	Broadcast Subnetwork An L1 IS shall transmit L1 LAN IIHs with the LAN ID field set to the LAN ID of the designated L1 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-8.1	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-8.2	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-8.3		(E) s7.2.3 p14 Broadca Designated routers and									
MUST	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH and the MAC 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-8.4	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes										
MUST	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH and the MAC address										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-8.5	ISO/IEC 10589:1992	O/IEC 10589:1992(E) s8.4.5 p46 LAN designated IS									
MUST	Designated Routers and Pseudonodes An L2 IS becomes an L2 Designated IS, it shall transmit L2 pseudonode LSP										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-8.6	ISO/IEC 10589:1992	(E) s8.4.5 p47 LAN de	signated ISs								
MUST	An L2 IS shall	uters and Pseudo L transmit L2 Li designated L2 :	AN IIHs with th	e LAN ID field	set 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-9.1	ISO/IEC 10589:1992(E) s8.4.2.1 p44 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication										
MUST	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH doesn"t contain the authentication information field, the L1 IS shall discard the PDU										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-9.2		ISO/IEC 10589:1992(E) s8.4.4 p46 Transmission of LAN IIH PDUs RFC 1195 s3.9 p25 Authentication									
MUST	Acceptance Tests An L1 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L1 LAN IIH PDU if authentication is enabled on the circuit										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-9.3	ISO/IEC 10589:1992 RFC 1195 s3.9 p25 /	(E) s8.4.2.1 p45 IIH PI Authentication	OU Acceptance Tests								
MUST	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH contains authentication information of type Password, and if this Password matches any of the circuitReceivePasswords, then the L1 IS accepts the PDU										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-9.4	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication										
MUST	contains authe	tion is enabled entication info not match any	rmation of type	Password, and	if this						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-9.5	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication										
MUST	IIH contains a	sts tion is enabled authentication en the IS disca	information 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-10.1	ISO/IEC 10589:1992 RFC 1195 s3.9 p25 /	t(E) s8.4.2.1 p45 IIH PI Authentication	OU Acceptance Tests								
MUST		tion is enabled in the authenti									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6-10.2	ISO/IEC 10589:1992(E) s8.4.4 p46 Transmission of LAN IIH PDUs RFC 1195 s3.9 p25 Authentication										
MUST	Authentication An L2 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L2 LAN IIH PDU if authentication is enabled on the circuit										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-10.3		D/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests C 1195 s3.9 p25 Authentication									
MUST	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of type Password, and if this Password matches any of the circuitReceivePasswords, then the L2 IS accepts the PDU										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-10.4	ISO/IEC 10589:1992 RFC 1195 s3.9 p25 /	(E) s8.4.2.1 p45 IIH PI Authentication	OU Acceptance Tests								
MUST	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of type Password, and if this Password does not match any of the circuitReceivePasswords, then the L2 IS discards the PDU										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-10.5	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication										
MUST	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of a type that the IS doesn"t implement, then the IS discards the PDU										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-11.1	ISO/IEC 10589:1992(E) s7.3.2 p19-p20 Generation of local link state information										
MUST	The update prounder the foll	Local Link Star ocess is respons owing circumtan Expiration (LSPG	sible for gener nces.	3	ce PDUs						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-11.2	ISO/IEC 10589:1992	(E) s7.3.5 p21 Periodic	LSP Generation								
MUST	The Intermedia	Generation of Local Link State Information The Intermediate System shall regenerate every LSP at intervals of atmost maximum LSPGeneration interval									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-11.3	ISO/IEC 10589:1992	(E) s7.3.5 p21 Periodic	LSP Generation							
MUST	The Intermedia	Local Link State System shall	l regenerate ev	ery LSP at inte	ervals					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-11.4	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) s7.3.16.1 p29 Sequence number								
SHOULD	When the seque	Local Link Statence number read be disabled for ne	ches the Sequen							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
ANVL-ISISV6-11.5	ISO/IEC 10589:1992(E) s7.3.16.3-4 p29 Remaining LifeTime Field & LSP Expiration synchronization									
MUST	Generation of Local Link State Information If the Remaining LifeTime field of the received LSP is zero the system shall purge that LSP from its database and synchronizes by flooding an expired LSP									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-11.6	ISO/IEC 10589:1992(E) s7.3.16.3-4 p29 Remaining LifeTime Field & LSP Expiration synchronization										
MUST	Generation of Local Link State Information If the Remaining LifeTime field of the received LSP is zero the system shall purge that LSP from its database and synchronizes by flooding an expired LSP										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-11.7	.7 ISO/IEC 10589:1992(E) s7.3.2 p19-p20 Generation of local link state information										
MUST	The update prounder the following	Local Link State ocess is respons Lowing circumtan Expiration (LSPO	sible for genernces.		ce PDUs						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-11.8	ISO/IEC 10589:1992	(E) s7.3.16.1 p29 Seq	uence number								
SHOULD	Generation of Local Link State Information When the sequence number reaches the Sequence Modulus, the routing module should be disabled for a period of at least MaxAge + ZeroAgeLifetime										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-17.2	ISO/IEC 10589:1992(E) S7.3.4 P21 Multiple LSPs										
MUST	Multiple LSPs If an LSP becomes empty because of all the adjacencies reported in that LSP no longer exists, an IS may purge that LSP instead of re-issuing 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-17.5	ISO/IEC 10589:1992 Intermediate systems	(E) s7.2.8.1 p15 Comp s	outing routes through o	verloaded							
MUST	Multiple LSPs The Decision Process shall not utilise a link to an Intermediate system neighbour from an IS whose LSPs have the LSP Data-base Overload indication set.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-17.8	ISO/IEC 10589:1992(E) S7.3.4 P21 Multiple LSPs										
MUST	Multiple LSPs If an LSP becomes empty because of all the adjacencies reported in that LSP no longer exists, an IS may purge that LSP instead of re-issuing 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3:			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6- 17.11	ISO/IEC 10589:1992 Intermediate systems	(E) s7.2.8.1 p15 Comp s	outing routes through c	overloaded						
MUST	Multiple LSPs The Decision Process shall not utilise a link to an Intermediate system neighbour from an IS whose LSPs have the LSP Data-base Overload indication set.									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-ISISV6-	RFC 5308, s2, p2 IPv6 Reachability TLV									
17.13 MUST	Multiple LSPs The external bit in IPv6 Reachability TLV must be set to 0 to indicate internal metric									
	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		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		
ANVL-ISISV6-	RFC 5308, s2, p2 IPv6 Reachability TLV									
17.14 MUST	Multiple LSPs The external bit in IPv6 Reachability TLV must be set to 0 to indicate internal metric									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass		



RFC Compliance Test Report ISISV6 Results



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6- 17.15	RFC 5308, s2, p3 IP	v6 Reachability TLV									
MUST	Multiple LSPs If a prefix is advertised with a metric larger than MAX_V6_PATH_METRIC (0xFE000000), this prefix MUST not be considered during the normal SPF computation.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-18.1	1 ISO/IEC 10589:1992(E) S7.2.5 P14 Multiple LSPs for the same system										
MUST	number zero ar 1. The setting 2. The value of	I LSPs information sha and disregarded : g of the LSP Dat of the IS Type : ddresses option	if the LSP numb tabase Overload field	er is non-zero	ch LSP						
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: unpredict	FreeBSD 10.3: FAIL	FreeBSD 10.3: unpredict	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-18.2	ISO/IEC 10589:1992	(E) S7.3 P19 Update p	process								
MUST		E LSPs ocess is respons Formation relial									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-18.3	ISO/IEC 10589:1992(E) S7.3.2 P19-20 Generation of local link state " information										
MUST	Propagation of LSPs The update process is responsible for generating Link State PDUs under the following circumstances: - When notified by the subnetwork dependent functions of an adjacency database change										
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: unpredict	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			
ANVL-ISISV6-18.4	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) S7.3.8 P22 Generation of level 1 pseudonode LSPs									
MUST	Propagation of LSPs The Area Addresses option will not be present when an IS generates a level 1 Link State PDU on behalf of pseudonode										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: pass	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict			
ANVL-ISISV6-18.5	ISO/IEC 10589:1992 PDU	(E) S7.3.15.1 P24-25 /	Action on receipt of Lin	k state							
MUST	Propagation of LSPs If this is a level 1 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded										
	Ubuntu 16.04: Ub										
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-18.6	ISO/IEC 10589:1992(E) s7.3.14.1 p23 Propagation of LSPs										
MUST	Propagation of Duplicate PDUs	E LSPs s are detected a	and dropped								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-18.7	ISO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs										
MUST	Propagation of LSPs Level 1 Link State PDUs shall be propagated on circuits, which have at least one Level 1 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			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-18.8	ISO/IEC 10589:1992	(E), s7.3.14.2, p24, Pr	opagation of LSPs								
MUST	Propagation of LSPs When propagating a L1 LSP on a broadcast subnetwork, the IS shall transmit to the multi-destination Address AllL1IS.										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-18.9	ISO/IEC 10589:1992	(E) s7.3.14.2 p24 Prop	pagation of LSPs			-				
MUST	Propagation of LSPs When an Intermediate System receives a LSP older than the one stored in the database, the stored link state PDU needs to be sent on the link from which the older one was received									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	FAIL	unpredict	unpredict		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	unpredict	unpredict	FAIL	unpredict	unpredict		
ANVL-ISISV6-	ISO/IEC 10589:1992(E) S7.3.16.3 P29 Remaining Lifetime Field									
18.10 MUST	Propagation of LSPs When the source generates a link state PDU, it shall set the Remaining Lifetime to MaxAge. Before transmitting a link state PDU to a neighbour, a system shall decrement the Remaining Lifetime									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-	RFC 1195 S3.1 P15 Exchange of routing information									
18.12 MUST	Propagation of LSPs Level 1 routers need to know what IP address are reachable from each level 1 router in their area									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	unpredict	pass	unpredict	unpredict	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	unpredict	unpredict	unpredict	unpredict	unpredict	unpredict		





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6- 18.13	RFC 1195 S3.7 P24 IP-Only Operation										
MUST	Propagation of LSPs Some of the VARIABLE LENGTH fields from IS-IS link packet must be omitted for IP only routers - The End System Neighbours entries are omitted - The Prefix Neighbours entries are omitted										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-19.1	ISO/IEC 10589:1992(E) S7.2.5 P14 Multiple LSPs for the same system										
MUST	The following number zero and 1. The setting 2. The value of	for the Same Sinformation shad disregarded is of the LSP Date of the IS Type iddresses option	all be taken on if the LSP numb tabase Overload field	er is non-zero	ch LSP						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-19.2	ISO/IEC 10589:1992	(E) S7.3 P19 Update p	rocess								
MUST	The update pro	for the Same Spocess is responsionation reliab	sible for gener								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6-19.3	ISO/IEC 10589:1992(E) S7.3.2 P19-20 Generation of local link state " information										
MUST	Multiple LSPs for the Same System The update process is responsible for generating Link State PDUs under the following circumstances: - When notified by the subnetwork dependent functions of an adjacency database change										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	unpredict	pass	pass	unpredict	pass			
ANVL-ISISV6-19.4	ISO/IEC 10589:1992	O/IEC 10589:1992(E) S7.3.8 P22 Generation of level 2 pseudonode LSPs									
MUST	Multiple LSPs for the Same System The Area Addresses option will not be present when an IS generates a level 2 Link State PDU on behalf of pseudonode										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-19.5	ISO/IEC 10589:1992 PDU	(E) S7.3.15 P24-25 Ac	tion on receipt of Link	state							
MUST	Multiple LSPs for the Same System If this is a level 2 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0			
ANVL-ISISV6-19.6	ISO/IEC 10589:1992(E) s7.3.14.1 p23 Propagation of LSPs										
MUST	Multiple LSPs for the Same System Duplicate PDUs are detected and dropped										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-19.7	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs									
MUST	Multiple LSPs for the Same System Level 2 Link State PDUs shall be propagated on circuits, which have at least one Level 2 adjacency										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			
ANVL-ISISV6-19.8	ISO/IEC 10589:1992	(E), s7.3.14.2, p24, Pr	opagation of LSPs								
MUST	Multiple LSPs for the Same System When propagating a L2 LSP on a broadcast subnetwork, the IS shall transmit to the multi-destination Address AllL2IS.										
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:			
	pass	pass	pass	pass	pass	pass	pass	pass			





	Release	Release	Release	Release	Release	Release	Master	Release	
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0	
ANVL-ISISV6-19.9	ISO/IEC 10589:1992	(E) s7.3.14.2 p24 Prop	agation of LSPs						
MUST	When an Intermone stored in	for the Same Symediate System : the database, the link form which	receives a LSP the stored link	state PDU need	ds to				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	FAIL	FAIL	unpredict	unpredict	pass	
ANVL-ISISV6- 19.10	ISO/IEC 10589:1992 state PDU	SO/IEC 10589:1992(E) s7.3.15.1 p24 Action on receipt of a link state PDU							
MUST	Multiple LSPs for the Same System If the ID Length of the PDU is not equal to the value of the ISs routingDomainISLength, the PDU shall be discarded								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	
ANVL-ISISV6-	ISO/IEC 10589:1992	(E) S7.3.16.3 P29 Rer	naining Lifetime Field						
19.11 MUST	Multiple LSPs for the Same System When the source generates a link state PDU, it shall set the Remaining Lifetime to MaxAge. Before transmitting a link state PDU to a neighbour, a system shall decrement the Remaining Lifetime								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0			
ANVL-ISISV6-	RFC 1195 S3.2 P17 Exchange of routing information Multiple LSPs for the Same System Level 2 routers need to know what IP address are reachable from each level 2 router in their area										
19.13 MUST											
	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			
	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict	FreeBSD 10.3: unpredict			
ANVL-ISISV6- 19.14	RFC 1195 S3.7 P25	RFC 1195 S3.7 P25 IP-Only Operation									
MUST	Some of the VA omitted for IF - The End Syst	for the Same Standard	fields from IS- entries are omi	tted	must be						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			
ANVL-ISISV6-20.1	ISO/IEC 10589:1992	(E) s7.3.16.1 p28 seq	uence numbers			_					
MUST		ers initializes, it s own Link State		ith sequence nu	umber						
	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			
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL			



RFC Compliance Test Report ISISV6 Results



	Release	Release	Release	Release	Release	Release	Master	Release	
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0	
ANVL-ISISV6-20.2	ISO/IEC 10589:1992	(E) s7.3.16.1 p28 seq	uence numbers						
SHOULD	Sequence Number The sequence reshould not be	number of any ac	ctually generat	ed Link State I	PDU				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	
ANVL-ISISV6-20.3	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) s7.3.16.1 p29 sequence numbers							
MUST	Sequence Numbers Update sequence number depending on the sequence number received from system in the domain								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	unpredict	pass	pass	
ANVL-ISISV6-20.4	ISO/IEC 10589:1992	(E) s7.3.16.2 p29 LSP	confusion						
MUST	Sequence Numbers If the sequence numbers match, but checksums do not and the LSP is not generated by the local system, then store the LSP with zero Remaining Lifetime, and flood the LSP								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	FAIL	FAIL	unpredict	FAIL	FAIL	unpredict	unpredict	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0		
ANVL-ISISV6-21.1	ISO/IEC 10589:1992	(E) s7.3.16.1 p28 seq	uence numbers							
MUST	LSP Confusion When a system initializes, it shall start with sequence number with 1 for its own Link State PDUs									
	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		
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL		
ANVL-ISISV6-21.2	ISO/IEC 10589:1992	(E) s7.3.16.1 p29 seq	uence numbers							
SHOULD	LSP Confusion The sequence r should not be	number of any aczero:	ctually generat	ed Link State I	מספ					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass								
ANVL-ISISV6-21.3	ISO/IEC 10589:1992	(E) s7.3.16.1 p29 seq	uence numbers							
MUST	LSP Confusion Update sequence number depending on the sequence number received from system in the domain									
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-21.4	ISO/IEC 10589:1992	SO/IEC 10589:1992(E) s7.3.16.2 p29 LSP confusion								
MUST	_	ce numbers match the local system flood the LSP	•							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	unpredict	unpredict	unpredict	unpredict		
ANVL-ISISV6-22.3	ISO/IEC 10589:1992	ISO/IEC 10589:1992(E), s7.3.17, p30, Making the update reliable								
MUST	Making the Update Reliable I On broadcast links, Designated Intermediate System shall periodically multicast Complete Sequence Number Packet instead of explicit acknowledgement for each Link State Packet that it received									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-22.4	ISO/IEC 10589:1992	(E), s7.3.17, p30, Mak	ng the update reliable							
MUST	Making the Update Reliable I On broadcast links, Designated Intermediate System shall periodically multicast Complete Sequence Number Packet instead of explicit acknowledgement for each Link State Packet that it received									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	unpredict	unpredict	unpredict	unpredict		





	Release	Release	Release	Release	Release	Release	Master	Release	
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0	
ANVL-ISISV6-24.1	1 ISO/IEC 10589:1992(E) s7.3.19.1 p31 Entering the waiting state								
MUST	Entering the Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	pass	pass	
ANVL-ISISV6-24.2	ISO/IEC 10589:1992(E) s7.3.19.1 p31 Entering the waiting state								
MUST	Entering the Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	pass	pass	pass	pass	pass	pass	unpredict	pass	
ANVL-ISISV6-25.2	RFC3719 Section 2.	1 Page 3 " MaxAge"							
SHOULD	ISISUpdate - RFC 3719 MaxAge SHOULD exceed maximumLSPGenerationInterval by atleast 300 seconds Note: Verify the RemainingLifeTime of the Packet								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
ANVL-ISISV6-25.3	RFC3719 Section 2.2	2 Page 4 " ISISv6Holdi	ingMultiplier"						
MAY	ISISUpdate - F An implementat	RFC 3719 tion MAY allow	ISISv6HoldingMu	ltiplier to be	configurable.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	unpredict	pass	unpredict	unpredict	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	
	unpredict	pass	pass	pass	pass	unpredict	pass	unpredict	





	Release	Release	Release	Release	Release	Release	Master	Release
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0
ANVL-ISISV6-25.4	RFC3719 Section 3.	1 Page 4 " ID Length"						
MUST	ISISUpdate - RFC 3719 An implementation MUST use an ID Length of 6.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:
	pass	pass	pass	pass	pass	pass	pass	pass
ANVL-ISISV6-25.5	RFC3719 Section 3.	1 Page 4 " ID Length"						
MUST		RFC 3719 acounters a PDU 5.a.2 dictates			From 0 or 6,			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:
	pass	pass	pass	pass	pass	pass	pass	pass
ANVL-ISISV6-25.6	RFC3719 Section 3.2	2 Page 5 "maximumAre	eaAddresses"					
SHOULD	ISISUpdate - F An implementat	RFC 3719 Lion SHOULD use	the value 3.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
ANVL-ISISV6-25.7	RFC3719 Section 3.2	2 Page 5 " maximumAr	eaAddresses"					
MUST	ISISUpdate - RFC 3719 If a router receives a PDU with maximumAreaAddresses that is not 0 or 3, it MUST discard the PDU, as described in section 7.3.15.a.3							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:
	pass	pass	pass	pass	pass	pass	pass	pass





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Master 2018-06-14	Release 5.0	
ANVL-ISISV6-25.8	RFC3719 Section 3.3 Page 5 " Protocol Version"								
MUST	drop the packe	eceives a PDU w		er than 1 for e	either field, i	t MUST			
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-25.9	RFC3719 Section 3.3	3 Page 5 " Protocol Ve	rsion"						
MUST	ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-ISISV6-	RFC3719 Section 11 Page 11 "Doppelganger LSPs"								
25.23 MUST	ISISUpdate - RFC 3719 A complete set of CSNPs is a set whose Start LSPID and End LSPID ranges cover the complete possible range of LSPIDs. (i.e., there is no possible LSPID value which does not appear within the range of one of the CSNPs in the set).								
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	



RFC Compliance Test Report ISISV6 Results



	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-26.1	RFC1195, s3.2, p17 Hierarchical Abbreviation of IP Reachability Information									
MUST	Hierarchical Abbreviation of IP Reachability Information Any address obtained from a level 1 LSP which is NOT superceded by the manually configured information is included in the level 2 LSPs									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
ANVL-ISISV6-26.2	RFC1195, s3.2, p17 Hierarchical Abbreviation of IP Reachability Information									
MUST	Hierarchical Abbreviation of IP Reachability Information Any address obtained from a level 1 LSP which is NOT superceded by the manually configured information is included in the level 2 LSPs (Note: This test checks whether the address is not included when it is superceeded)									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
ANVL-ISISV6-26.3	RFC 5308, s2, p2 IP	RFC 5308, s2, p2 IPv6 Reachability TLV								
MUST	Hierarchical Abbreviation of IP Reachability Information If a prefix is redistributed from a higher level to a lower level (e.g., Level 2 to Level 1), the up/down bit is set to 1.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-28.2	RFC3719 Section 2.	RFC3719 Section 2.1 Page 3 " MaxAge"								
SHOULD	ISISUpdate - RFC 3719 Part 2 MaxAge SHOULD exceed maximumLSPGenerationInterval by atleast 300 seconds Note: Verify the RemainingLifeTime of the Packet									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
ANVL-ISISV6-28.3	RFC3719 Section 2.2	RFC3719 Section 2.2 Page 4 " ISISv6HoldingMultiplier"								
MAY	ISISUpdate - RFC 3719 Part 2 An implementation MAY allow ISISv6HoldingMultiplier to be configurable.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	unpredict	unpredict	unpredict	unpredict	unpredict	unpredict	unpredict	unpredict		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	unpredict	pass	unpredict	pass	unpredict	pass	pass	unpredict		
ANVL-ISISV6-28.4	RFC3719 Section 3.	1 Page 4 " ID Length"								
MUST	ISISUpdate - RFC 3719 Part 2 An implementation MUST use an ID Length of 6.									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-28.5	RFC3719 Section 3.	1 Page 4 " ID Length"								
MUST	If a router en	ISISUpdate - RFC 3719 Part 2 If a router encounters a PDU with an ID Length different from 0 or 6, section 7.3.15.a.2 dictates that it MUST discard the PDU								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	2018-06-14	5.0		
ANVL-ISISV6-28.8	RFC3719 Section 3.3 Page 5 " Protocol Version"									
MUST	If a router red	RFC 3719 Part 2 eceives a PDU w et. The Version fie		er than 1 for ϵ	either field, i	t MUST				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-28.9	RFC3719 Section 3.3	3 Page 5 " Protocol Ve	sion"							
MUST	If a router red	RFC 3719 Part 2 eceives a PDU w et. The Version/Pro		er than 1 for ϵ	either field, i	t MUST				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		
ANVL-ISISV6-	RFC3719 Section 11 Page 11 "Doppelganger LSPs"									
28.23 MUST	ISISUpdate - RFC 3719 Part 2 A complete set of CSNPs is a set whose Start LSPID and End LSPID ranges cover the complete possible range of LSPIDs. (i.e., there is no possible LSPID value which does not appear within the range of one of the CSNPs in the set).									
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:		
	pass	pass	pass	pass	pass	pass	pass	pass		