



	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	
Туре	FRR	FRR	FRR	FRR	FRR	FRR	
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7c0c85a	
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-01-17	
ANVL-OSPFV3-1.1	RFC 5340, s2.4 p6 Explicit support for m	nultiple instances per l	ink				
MUST	OSPF now suppo	ort for Multipl orts the abilit a single link. for single ins	y to run multi	ple OSPF prot			
	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	
ANVL-OSPFV3-2.1	RFC 5340, s2.5 p7 L	Ise of link-local addres	sses				
MUST	Use of Link-Local Addresses On all OSPF interfaces except virtual links, OSPF packets are sent using the interface"s associated link-local unicast address as source						
	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	
ANVL-OSPFV3-2.3	RFC 5340, s2.5 p7 L	Jse of Link-Local Addr	esses				
MUST	Use of Link-Local Addresses On virtual links, a global scope IPv6 address MUST be used as the source address for OSPF protocol packets.						
	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	
ANVL-OSPFV3-2.4	RFC 5340, s2.5 p7 L	Ise of link-local addres	sses				
MUST	Use of Link-Lo Link-local add	ocal Addresses dresses appear	in OSPF Link-L	SAs			
	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	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	
ANVL-OSPFV3-2.5	RFC 5340, s2.5 p7 L	Jse of Link-Local Addr	esses				
MUST	link-local add	Use of Link-Local Addresses link-local addresses MUST NOT be advertised in inter-area-prefix-LSAs, AS-external-LSAs or intra-area-prefix-LSAs					
	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	
ANVL-OSPFV3-3.1	RFC 5340, s2.7 p8 P	acket format changes					
MUST	Packet Format The OSPF versi		been increment	ed from 2 to	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	
	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-OSPFV3-3.2	RFC 5340, s2.7 p8 P	acket format changes					
MUST	Packet Format Changes The Hello packet now contains no address information at all. Rather, it now includes an Interface ID that the originating router has assigned to uniquely identify (among its own interfaces) its interface to the link						
	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	
ANVL-OSPFV3-3.3	RFC 5340, s2.7 p8 P	acket format changes					
MUST		e ID will be us	ed as the netw signated Route				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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-OSPFV3-3.4	RFC 5340, s2.7 p8 P	acket format changes					
MUST	Packet Format Changes If the R-bit is clear, an OSPF speaker can participate in OSPF topology distribution without being used to forward transit traffic; this can be used in multi-homed hosts that want to participate in the routing protocol						
	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	





	Release	Release	Release	Release	Release	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-OSPFV3-3.5	RFC 5340 s2.9 p10 l RFC 5340 sA.4.2.1 p	Handling Unknown LS 72 LS type	A Types			
MUST	based on LS ty link-local flo were understoo 0 Treat	known LSA type pe, unknown LS ooding scope, o	A types are ei r are stored a it had link-lo	ther treated nd flooded as	as having s if they	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-3.6	RFC 5340 s2.9 p10 l RFC 5340 sA.4.2.1 p	Handling Unknown LS 72 LS type	A Types			
MUST	Packet Format Changes Handling of unknown LSA types has been made more flexible so that, based on LS type, unknown LSA types are either treated as having link-local flooding scope, or are stored and flooded as if they were understood 1 Store and flood the LSA, as if type understood (Test for Area-flooding scope)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-4.1	RFC 5340 s3.4 p12 s RFC 5340 sA.4.2.1 p	Stub Area Unknown L 72 LS type	SA Flooding Restriction	on Deprecated		
MUST	Handling Unknown LSA Types an LSA whose LS type is unrecognized may only be flooded into/throughout a stub area if both a) the LSA has area or link-local flooding scope and b) the LSA has U-bit set to 0 0 Treat the LSA as if it had link-local flooding scope (Test for Link-local flooding scope)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-4.2		2 Sending Link State	SA Flooding Restriction Update packets	on Deprecated			
	Handling Unknown LSA Types an LSA whose LS type is unrecognized may only be flooded into/throughout a stub area if both a) the LSA has area or link-local flooding scope and b) the LSA has U-bit set to 0 Case 2 The LS type is unrecognized and the U-bit in the LS Type is set to 0 (treat the LSA as if it had link-local flooding scope). In this case there is a single eligible interface, namely, the interface on which the LSA was received. 0 Treat the LSA as if it had link-local flooding scope (This test is for Area-flooding scope)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-6.1	RFC 5340, s4 p13 Implementation details RFC 2328, s4 p40 Functional Summary						
MUST	Implementation Details The router sends Hello packets to its neighbors, and in turn receives their Hello packets.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.2	RFC 5340, s4 p13 Implementation details RFC 2328, s4 p40 Functional Summary						
MUST	Implementation Details On broadcast networks, the router dynamically detects its neighboring routers by sending its Hello packets to the multicast						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.4	RFC 5340, s4 p13 lm RFC 2328, s4 p40 Ft						
MUST	Implementation Link state is		d when a route	r"s state cha	anges.		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-6.5	RFC 5340, s4 p13 Implementation details RFC 2328, s4.3 p43 Routing protocol packets						
MUST	Implementation Each LSA is ta and a checksum (This test is	agged with the n of its link s	ID of the orig	inating route	er		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.6	RFC 5340, s4 p13 lm RFC 2328, s4.3 p43	nplementation details Routing protocol pack	ets				
MUST	and a checksum	gged with the	ID of the orig tate contents. A)	inating route	er		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.7	RFC 5340, s4 p13 Implementation details RFC 2328, s4.3 p43 Routing protocol packets						
MUST	Implementation Details Each LSA is tagged with the ID of the originating router and a checksum of its link state contents. (This test is for Inter-Area-Prefix-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.8	RFC 5340, s4 p13 lm RFC 2328, s7.1 p52	nplementation details The Hello Protocol					
MUST		communication	is indicated w r"s Hello Pack		er sees		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-6.9	RFC 5340, s4 p13 Implementation details RFC 2328, s7.1 p52 The Hello Protocol							
MUST	multicasting H	etPrefixes, ea Mello Packets	ch router adve		-			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.10	RFC 5340, s4 p13 lm RFC 2328, s7.1 p52							
MUST	periodically m	etPrefixes, ea ulticasting He	ach router adve ello Packets een incorporat		-			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.11	RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p53 The Synchronization of Databases							
MUST	Implementation Details Each router describes its database by sending a sequence of Database Description packets to its neighbor. (This is an indirect test which verifies that the DUT recognizes the LSA headers contained in the Database Description packets received from ANVL.)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.12	RFC 5340, s4 p13 lm RFC 2328, s7.2 p53	nplementation details The Synchronization	of Databases					
MUST		bor sees an LS	A that is more te that this n					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-6.13	RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p53 The Synchronization of Databases							
MUST		bor sees an LS it does make be requested.	A that is more a note that th					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.14	RFC 5340, s4 p13 lm RFC 2328, s7.2 p53	nplementation details The Synchronization	of Databases					
MUST	Implementation Details Database Description Packets sent by the master (polls) are acknowledged by the slave through echoing of the sequence number							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.15	NEGATIVE RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p53 The Synchronization of Databases							
	Implementation Details Database Description Packets sent by the master (polls) are acknowledged by the slave through echoing of the sequence number							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.16	RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p54 The Synchronization of Databases							
MUST	Implementation The master is Description Pa	the only one a	llowed to retr	ansmit Databa	ase			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-6.17	NEGATIVE RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p54 The Synchronization of Databases							
	Implementation The master is Description Pa	the only one a	llowed to retr	ansmit Databa	ase			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.18	RFC 5340, s4 p13 lm RFC 2328, s7.2 p54	nplementation details The Synchronization of	of Databases					
MUST		Description co	ntains an indi he M-bit field		chere are			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.19	RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p54 The Synchronization of Databases							
MUST	Implementation Details Database Exchange Process is over when a router has received and sent Database Description Packets with the M-bit off							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.20	NEGATIVE RFC 5340, s4 p13 Implementation details RFC 2328, s7.2 p54 The Synchronization of Databases							
	Implementation Details Database Exchange Process is over when a router has received and sent Database Description Packets with the M-bit off							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-6.21	RFC 5340, s4 p13 Implementation details RFC 2328, s7.3 p54 The Designated Router						
MUST	Implementation The Designated network.		ates a network	-LSA on behal	lf of the		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.22	RFC 5340, s4 p13 lm RFC 2328, s7.3 p54	nplementation details The Designated Rout	er				
MUST		the DR, it do	es generate a is with DUT as				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.23	RFC 5340, s4 p13 Implementation details RFC 2328, s7.3 p54 The Designated Router						
MUST	Implementation Details If a router is the DR, it does generate a network-LSA for the network. (This test is with DUT as DR-Other)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-6.24	RFC 5340, s4 p13 lm RFC 2328, s7.4 p56	RFC 5340, s4 p13 Implementation details RFC 2328, s7.4 p56 The Backup Designated Router					
MUST	Implementation Backup Designa the previous D		omes Designate er fails.	d Router wher	n		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-6.25	RFC 5340, s4 p13 Implementation details RFC 2328, s7.4 p56 The Backup Designated Router							
MUST			d that specifi twork.	es the Backur)			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.28	RFC 5340, s4 p13 lm RFC 2328, s9.1 p69							
MUST	In DR Other st Backup Designa to both the De	Implementation Details In DR Other state, the router itself has not been selected Backup Designated Router either. The router forms adjacencies to both the Designated Router and the Backup Designated Router (if they exist).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.29	RFC 5340, s4 p13 Implementation details RFC 2328, s9.1 p69 Interface states							
MUST	Implementation Details In Backup state the router establishes adjacencies to all other routers attached to the network.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.30	RFC 5340, s4 p13 lm RFC 2328, s9.1 p69	•						
MUST	Implementation In DR state Ad attached to the	ljacencies are	established to	all other ro	outers			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-6.31	RFC 5340, s4 p13 Implementation details RFC 2328, s9.3 p73 The Interface state machine							
MUST	then router ca	s in Waiting st	ate, if Backup ttached networ					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-6.32		nplementation details The Interface state ma	achine					
MUST	When router is then router ca	Implementation Details When router is in Waiting state, if WaitTimer event fires then router calculates the attached network"s Backup Designated Router and Designated Router						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	unpredict	unpredict	unpredict	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-7.1	RFC 5340, s4 p13 Implementation details RFC 2328, s9.3 p74 The Interface state machine							
MUST	More Implementation Details When NbrChange event fires then router recalculates the attached network"s Backup Designated Router and Designated Router							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.2		RFC 5340, s4 p13 Implementation details RFC 2328, s9.3 p74 The Interface state machine						
MUST		e event fires t	hen router rec					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-7.3	RFC 5340, s4 p13 Implementation details RFC 2328, s9.4 p75 Electing the Designated Router							
MUST	designated but	one routers hav not as Design	re declared the lated Router, t leclared to be	he one having	g the			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.4	RFC 5340, s4 p13 lm RFC 2328, s9.4 p75	nplementation details Electing the Designat	ed Router					
MUST	More Implementation Details When selecting a Backup Designated Router among more than one Routers declaring themselves as Backup Designated Router, if there is a tie in the Router Priority, the one having highest Router ID is chosen.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.5	RFC 5340, s4 p13 Implementation details RFC 2328, s9.4 p76 Electing the Designated Router							
MUST	More Implementation Details If no routers have declared themselves Backup Designated Router, choose the router having highest Router Priority as Backup Designated Router.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.6	RFC 5340, s4 p13 Implementation details RFC 2328, s9.4 p76 Electing the Designated Router							
MUST	choose the rou	have declared ter having hig	themselves Bac hest Router Pr rify that Rout	iority, agair	n use the			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16			
ANVL-OSPFV3-7.7		RFC 5340, s4 p13 Implementation details RFC 2328, s9.4 p76 Electing the Designated Router							
MUST	Designated Rou	ation Details of the router ter the one ha be Designated	ving highest R		ty				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.8		nplementation details Electing the Designat	ed Router						
MUST	In case of a t declaring them the highest Ro	More Implementation Details In case of a tie in the router priority among routers declaring themselves Designated Router, the one having the highest Router ID is chosen. (DUT loose the DR election)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.9	RFC 5340, s4 p13 Implementation details RFC 2328, s9.4 p76 Electing the Designated Router								
MUST	More Implementation Details In case of a tie in the router priority among routers declaring themselves Designated Router, the one having the highest Router ID is chosen. (DUT wins the DR election)								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.10	RFC 5340, s4 p13 lm RFC 2328, s9.4 p76	nplementation details Electing the Designat	ed Router						
MUST	assign the Des	ation Details have declared signated Router Designated Ro	to be the sam						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			





	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16			
ANVL-OSPFV3-7.11	RFC 5340, s4 p13 lm RFC 2328, s10.1 p83								
MUST	After the two the state tran	More Implementation Details After the two routers discover their master/slave status, the state transitions to Exchange. (This test checks the case when DUT eventually becomes master)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.12	RFC 5340, s4 p13 lm RFC 2328, s10.1 p83								
MUST	the state tran	routers discov	er their maste hange. hen DUT eventu		ıs,				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.13	RFC 5340, s4 p13 Implementation details RFC 2328, s10.1 p86 neighbor states								
MUST	More Implementation Details Only one Database Description Packet is allowed outstanding at any one time. (So when a router is slave it will always send a Database Description packet with the DD sequence number same as that of the Database Description packet received from master.)								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-7.14	RFC 5340, s4 p13 Implementation details RFC 2328, s10.1 p86 neighbor states								
MUST	at any one time retransmit a Database Des	pase Descriptione. (So when a patabase Descriscription packe	n Packet is al router is mast ption packet u t echoing the base Descripti	er it will nless slave s DD sequence					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16			
ANVL-OSPFV3-7.17	RFC 5340, s4 p13 Implementation details RFC 2328, s10.3 p91 The neighbor state machine								
MUST	AS-external-LS	More Implementation Details AS-external-LSAs are omitted from the Database summary list if the area has been configured as a stub area.							
	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			
ANVL-OSPFV3-7.18 MUST	NEGATIVE RFC 5340, s4 p13 lm RFC 2328, s10.3 p9 ⁴	nplementation details I The neighbor state n	nachine						
			l from the Data a stub area.	base summary	list if 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			
	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-OSPFV3-7.19	RFC 5340, s4 p13 Implementation details RFC 2328, s10.3 p92 The neighbor state machine								
MUST	More Implementation Details When in Exchange state if ExchangeDone event has fired then if the neighbor Link state request list is not empty, router transitions to Loading state and starts (or continues) sending Link State Request packets to the neighbor.								
	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			
ANVL-OSPFV3-7.20	RFC 5340, s4 p13 Implementation details RFC 2328, s10.3 p93 The neighbor state machine								
MUST	neighbor event	is in Exchange SeqNumberMism ents the DD seq	e or greater st match has occur quence number i	red then the	or				
	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			





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-7.21	RFC 5340, s4 p13 Implementation details RFC 2328, s10.3 p93 The neighbor state machine							
MUST	If the router neighbor event router increme neighbor data	More Implementation Details If the router is in Exchange or greater state and the neighbor event SeqNumberMismatch has occurred then the router increments the DD sequence number in the neighbor data structure. This test is for Loading State.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.22		nplementation details 4 The neighbor state n	nachine					
MUST	More Implementation Details The action for event BadLSReq is exactly the same as for the neighbor event SeqNumberMismatch. The (possibly partially formed) adjacency is torn down, and then an attempt is made at reestablishment. This test is for Exchange State.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.23	RFC 5340, s4 p13 Implementation details RFC 2328, s10.3 p94 The neighbor state machine							
MUST	More Implementation Details The action for event BadLSReq is exactly the same as for the neighbor event SeqNumberMismatch. The (possibly partially formed) adjacency is torn down, and then an attempt is made at reestablishment. This test is for Loading State.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-7.24	RFC 5340, s4 p13 lm RFC 2328, s10.4 p95	nplementation details Whether to become	adjacent					
MUST	More Implementation Details On broadcast, all routers become adjacent to both the Designated Router and the Backup Designated Router.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3-8.1		5 The Interface Data stru						
MUST	The Designated	The Interface Data Structure The Designated Router is initialized to 0.0.0.0, which indicates the lack of a Designated Router.						
	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		
ANVL-OSPFV3-8.2		5 The Interface Data stru						
MUST	The Backup Des		is initialize kup Designated		,			
	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		
ANVL-OSPFV3-8.3	RFC 5340, s4.1.2 p15 The Interface Data structure RFC 2328, s9 p66 The Interface Data Structure							
MUST	The Interface Data Structure RxmtInterval is the number of seconds between Database Description packet retransmissions. This tests for Database Description packet retransmission in ExStart state.							
	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		
ANVL-OSPFV3-8.4	RFC 5340, s4.1.2 p15 The Interface Data structure RFC 2328, s9 p66 The Interface Data Structure							
MUST	RxmtInterval i Request packet	retransmission Database Desc	f seconds betw					
	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		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-8.5	RFC 5340, s4.1.2 p15 The Interface Data structure RFC 2328, s9 p66 The Interface Data Structure						
MUST	RxmtInterval i		f seconds betw cies belonging				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-8.6	RFC 5340, s4.1.2 p1	5 The Interface Data	structure				
MUST	The Interface		Hello packets d by router fo				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-8.7	RFC 5340, s4.1.2 p1	5 The Interface Data	structure				
MUST	The Interface Data Structure The Interface ID appears in Hello packets sent out the interface, the router-LSA originated by the router-LSA for the associated area						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-8.8	RFC 5340, s4.1.2 p1	6 The Interface Data	structure				
MUST	A list of IPv6		be configured the router in		ched link.		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-8.9	RFC 5340, s4.1.2 p1	6 The Interface Data	structure				
MUST	A list of IPv6 These will be they can be ad intra-area-pre	Data Structure prefixes can advertised by vertised by the fix-LSAs. R sends intra-	be configured the router in e link"s Desig	link-LSAs, so nated Router	that		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-9.2	RFC 5340, s4.1.3 p1	7 The Neighbor Data	Structure				
MUST	The Neighbor Data Structure The neighbor"s choice of Designated Router is now encoded as a Router ID, instead of as an IP address (The test is for Designated Router)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-9.3	RFC 5340, s4.1.3 p1	7 The Neighbor Data	Structure				
MUST	Router ID, ins	Pata Structure s choice of Des stead of as an for Backup Desi	IP address		ded as a		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-10.1	RFC 5340, s4.2 p17	Protocol Packet Proce	essing				
MUST	Protocol Packe The Next Heade set to the val	er field of the	immediately e	ncapsulating	IPv6 header		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-11.1	RFC 5340, s4.2.1 p1	8 Sending protocol pa	ickets				
MUST	Packet lengtn The length of	Sending Protocol Packets Packet lengtn The length of the entire OSPF packet in bytes, including the standard OSPF packet header					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-11.2	NEGATIVE RFC 5340, s4.2.1 p1	8 Sending protocol pa	ackets				
MUST	Sending Protoc Packet length The length of standard OSPF	the entire OSP	F packet in by	tes, includir	ng the		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-11.3	RFC 5340, s4.2.1 p1	8 Sending protocol pa	ackets				
MUST	Instance ID The OSPF insta	Sending Protocol Packets Instance ID The OSPF instance ID associated with the interface out of which the packet is being sent					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-11.4	RFC 5340, s4.2.1 p1	8 Sending protocol pa	ackets				
MUST	Sending Protocol Packets Checksum The standard IPv6 Upper-Layer checksum covering the entire OSPF packet and prepended IPv6 pseudo-header.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-11.5	NEGATIVE RFC 5340, s4.2.1 p18 Sending protocol packets							
MUST		ol Packets Pv6 Upper-Laye pended IPv6 ps		ering the ent	cire OSPF			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-11.6		8 Sending protocol pa Sending protocol pacl						
MUST	In OSPF protoc	Sending Protocol Packets In OSPF protocol packet headers Router ID is set to the identity of the router itself (who is originating the packet).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-11.7	RFC 5340, s4.2.1 p18 Sending protocol packets RFC 2328, s8.1 p59 Sending protocol packets							
MUST	Sending Protocol Packets Area ID in the OSPF packet header must be set to the ID of the area that the packet is being sent into. (This test checks Hello packet)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-11.9	RFC 5340, s4.2.1 p18 Sending protocol packets RFC 2328, s8.1 p60 Sending protocol packets							
MUST	Sending Protoc Retransmission directly to th	s of Link Stat	e Update packe	ts are ALWAYS	S sent			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 11.10		8 Sending protocol pa 05 Sending Link State					
MUST	with the proper request list i	abor responds to the Link State Uses truncated and ocess continues	o these reques pdate packet(s d a new Link S until the Lin), the Link state Request	state packet is		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 11.11		8 Sending protocol pa 05 Sending Link State					
MUST	Sending Protocol Packets Link state request list that have been requested, but not yet received, are packaged into Link State Request packets for retransmission at intervals of RxmtInterval.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 11.12		8 Sending protocol pa 52-153 Sending Link S	ickets State Acknowledgmen	t			
MUST	Sending Protocol Packets If the new LSA has been flooded back out receiving interface no acknowledgment is sent.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 11.13		8 Sending protocol pa 52-153 Sending Link S	ickets State Acknowledgmen	t			
MUST	Sending Protocol Packets If the new LSA is more recent than database copy, but was not flooded back out receiving interface and if the router is in state Backup then delayed acknowledgment is sent if advertisement is received from Designated Router, otherwise nothing is done.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3- 11.14		RFC 5340, s4.2.1 p18 Sending protocol packets RFC 2328, s13.5 p152-153 Sending Link State Acknowledgment packets						
MUST	Sending Protocol Packets If the new LSA is more recent than database copy, but was not flooded back out receiving interface and if the receiving router is not in state Backup then delayed acknowledgment is sent. (This test checks the case when router state is DR Other)							
	Ubuntu 16.04: unpredict	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		
ANVL-OSPFV3- 11.15		8 Sending protocol pa 52-153 Sending Link S	ackets State Acknowledgmen	t packets				
MUST	Sending Protocol Packets If the new LSA is more recent than database copy, but was not flooded back out receiving interface and if the receiving router is not in state Backup then delayed acknowledgment is sent. (This test checks the case when router state is DR)							
	Ubuntu 16.04: unpredict	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		
ANVL-OSPFV3- 11.16		8 Sending protocol pa 52-153 Sending Link S	ackets State Acknowledgmen	t packets				
MUST	acknowledgment then delayed a	A is a duplicat and if the reacknowledgment	e, and was tre ceiving router is sent if adv rwise nothing	is in state ertisement is	Backup			
	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		
ANVL-OSPFV3- 11.17		8 Sending protocol pa 52-153 Sending Link S	ackets State Acknowledgmen	t packets				
MUST	Sending Protocol Packets If the new LSA is a duplicate, and was treated as implied acknowledgment and if the receiving router is not in state Backup then no acknowledgment is sent. (This test checks the case when router state is DR Other)							
	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		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 11.18	RFC 5340, s4.2.1 p1 RFC 2328, s13.5 p15	8 Sending protocol pa 52-153 Sending Link S	ackets State Acknowledgmen	t packets			
MUST	If the new LSA acknowledgment then no acknow	Sending Protocol Packets If the new LSA is a duplicate, and was treated as implied acknowledgment and if the receiving router is not in state Backup then no acknowledgment is sent. (This test checks the case when router state is DR)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 11.19		8 Sending protocol pa 52-153 Sending Link S	ackets State Acknowledgmen	t packets			
MUST	Sending Protocol Packets If the new LSA is a duplicate, and was not treated as implied acknowledgment and if the receiving router is in state Backup then direct acknowledgment is sent.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 11.20		8 Sending protocol pa 52-153 Sending Link S	nckets State Acknowledgmen	t packets			
MUST	acknowledgment	is a duplicat	e, and was not ceiving router s sent.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-12.1		o18 Sending Hello pac Sending Hello packets					
MUST		et also indica	tes how often (RouterDeadInt		ıst be		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-12.2		RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets						
SHOULD		Packets a Hello packet should be clea		rea the E-bit	of the			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-12.3 SHOULD		o18 Sending Hello pac Sending Hello packets						
		Packets a Hello packet should be clea		rea the E-bit	of the			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-12.4	RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets							
SHOULD	Sending Hello Packets While sending a Hello packet into a non-stub area the E-bit of the Options field should be set.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-12.5	RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets							
MUST	routers, the H	Packets nsure two-way c Hello packet co from which He	ntains the lis	t of all rout				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-12.6	RFC 5340, s4.2.1.1 p RFC 2328, s9.5 p78	RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets						
MUST		also contains t	he router"s cu Designated Ro		for			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-12.7		o18 Sending Hello pad Sending Hello packets						
MUST			packets are sers.	ent to the II	·			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-12.8	RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets							
MUST	Sending Hello Packets On broadcast networks, Hello packets are sent every HelloInterval seconds.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 12.11		o18 Sending Hello pac Sending Hello packets						
MUST	Sending Hello Packets On virtual links, Hello packets are sent as unicasts (addressed directly) to the other end of the virtual link							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		





	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16			
ANVL-OSPFV3- 12.12		RFC 5340, s4.2.1.1 p18 Sending Hello packets RFC 2328, s9.5 p78 Sending Hello packets							
MUST	Sending Hello On virtual lin		ets are sent e	very HelloInt	cerval				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL			
ANVL-OSPFV3- 12.13	NEGATIVE RFC 5340, s4.2.1.1 p	o19 Sending Hello pad	ckets						
MUST	Sending Hello the N-bit is s NSSA area		if the interf	ace attaches	to an				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL			
ANVL-OSPFV3-13.1	RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p103 Sending Database Description Packets								
SHOULD	Sending Database Description Packets Interface MTU should be set to 0 in Database Description packets sent over virtual links.								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL			
ANVL-OSPFV3-13.2		o19 Sending Database 03 Sending Database	e Description Packets Description Packets						
SHOULD	In Database De	se Description scription pack should be set	et the unrecog	nized bits in	n the				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-13.3	RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p103 Sending Database Description Packets							
MUST	In state ExSta		Packets sends empty Da (I), more (M)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-13.4		o19 Sending Database 03 Sending Database	e Description Packets Description Packets					
MUST	Sending Database Description Packets In state ExStart Database Description packets are retransmitted every RxmtInterval seconds.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-13.5	RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p104 Sending Database Description Packets							
MUST	Sending Database Description Packets In state Exchange, if the router is master, Database Description packets are sent when slave acknowledges the previous Database Description packet by echoing the DD sequence number.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-13.6		RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p104 Sending Database Description Packets						
MUST	In state Excha Description pa	ckets are sent	Packets outer is slave, only in respo	nse to Databa	ase			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	
ANVL-OSPFV3-13.7	RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p104 Sending Database Description Packets						
MUST	In state Excha Description pa Database Descr	cket received	outer is slave, from the maste is sent, other	r is new, a m	new		
	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	
ANVL-OSPFV3-13.8		o19 Sending Database 04 Sending Database	e Description Packets Description Packets				
MUST	Sending Database Description Packets In state Loading the slave must resend its last Database Description packet in response to duplicate Database Description packets received from the master.						
	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	
ANVL-OSPFV3-13.9	RFC 5340, s4.2.1.2 p19 Sending Database Description Packets RFC 2328, s10.8 p104 Sending Database Description Packets						
MUST	Sending Database Description Packets In state Full the slave must resend its last Database Description packet in response to duplicate Database Description packets received from the master.						
	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	
ANVL-OSPFV3- 13.10		o19 Sending Database 04 Sending Database	e Description Packets Description Packets				
MUST	In state Loadi		of a Database D ral (RouterDead				
	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	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 13.11		o19 Sending Database 04 Sending Database					
MUST	In state Full from the maste	Sending Database Description Packets In state Full reception of a Database Description packet" from the master after this interval (RouterDeadInterval) will generate a SeqNumberMismatch neighbor event.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-14.1	RFC 5340, s4.2.2 p2	0 Receiving protocol բ	packets				
SHOULD	Receiving Protocol Packets The fields specified in the header must match those configured for the receiving OSPFv3 interface. If they do not, the packet should be discarded: o The version number field must specify protocol version 3						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-14.2	RFC 5340, s4.2.2 p2	0 Receiving protocol μ	oackets				
SHOULD	If they do not The IPv6 Upper	ecified fo t, the packet s -Layer checksu	or the receivin should be disca m, covering th seudo-header, m	rded: e entire OSPI			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-14.3	RFC 5340, s4.2.2 p2	0 Receiving Protocol	Packets				
SHOULD	If they do not	ecified fo	or the receivin should be disca ID found in th	rded:	must be		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-14.4	RFC 5340, s4.2.2 p2	1 Receiving protocol p	packets					
SHOULD	The fields spe If they do not o Packets who	Receiving Protocol Packets The fields specified for the receiving interface. If they do not, the packet should be discarded: o Packets whose IPv6 destination is AllDRouters should only be accepted if the state of the receiving OSPFv3 interface is DR or Backup						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-14.5		1 Receiving protocol լ 00 Receiving Databas	oackets e Description Packets					
MUST	In ExStart stapacket has the and the neighbour then the r	Receiving Protocol Packets In ExStart state if the received Database Description packet has the I, M and MS-bit fields set, the packet is empty, and the neighbor"s Router ID is larger than the router"s own then the router is slave, and it sets the neighbor data structure"s DD sequence number to that specified by master.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-14.6	RFC 5340, s4.2.2 p21 Receiving protocol packets RFC 2328, s10.6 p100 Receiving Database Description Packets							
MUST	Receiving Protocol Packets In ExStart state if the received Database Description packet has the I and MS-bit fields off, the packet"s DD sequence number equals the neighbor data structure"s DD sequence number and the neighbor"s Router ID is smaller than the router"s own then the router is Master.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-14.7		1 Receiving protocol p 02 Receiving Databas	oackets e Description Packets					
SHOULD	Receiving Protocol Packets When the router accepts a received Database Description Packet as the next in sequence, if the router is master and the accepted packet has more bit (M) set to 1, it should send a new Database Description to the slave.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-14.8		1 Receiving protocol p 2 Receiving Databas	packets e Description Packets				
SHOULD	Receiving Protocol Packets When the router accepts a received Database Description Packet as the next in sequence, if the router is master and the router has not sent its entire sequence of Database Description packets, it should send a new Database Description to the slave.(This test is for DUT as Master)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-14.9		1 Receiving protocol p 22 Receiving Databas	packets e Description Packets				
MUST	Receiving Protocol Packets When the router accepts a received Database Description Packet as the next in sequence, if the router is master it increments the DD sequence number in the neighbor data structure.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 14.10		1 Receiving protocol լ 02 Receiving Databas	oackets e Description Packets				
MUST	Receiving Protocol Packets When the router accepts a received Database Description Packet as the next in sequence, if the router is slave, it sets the DD sequence number in the neighbor data structure to the DD sequence number appearing in the received packet and also it must send a Database Description packet in response.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 14.11		1 Receiving protocol p 22 Receiving Link Stat					
SHOULD	Receiving Prot Link State Rec state Exchange	quest Packets s	should be accep	ted when the	neighbor is	in	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3- 14.12		1 Receiving protocol 02 Receiving Link Stat						
SHOULD			should be accep	ted when the				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 14.13		1 Receiving protocol 02 Receiving Link Sta						
SHOULD	Receiving Prot Link State Rec neighbor is in	quest Packets s	should be accep	ted when the				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 14.14		RFC 5340, s4.2.2 p21 Receiving protocol packets RFC 2328, s10.7 p102 Receiving Link State Request Packets						
SHOULD	Receiving Protocol Packets Link State Request Packets should be ignored when neighbor is in ExStart state.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 14.15	RFC 5340, s4.2.2 p2 RFC 2328, s10.7 p10	1 Receiving protocol 22 Receiving Link Sta	packets te Request Packets					
SHOULD	Receiving Protocol Packets Link State Request Packets should be ignored when neighbor is in Init state.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 14.16		1 Receiving protocol 02 Receiving Link Sta						
SHOULD	Receiving Prot Link State Rec is in Down sta	quest Packets s	should be ignor	ed when neigh	nbor			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-OSPFV3- 14.17		1 Receiving protocol p 33 Receiving Link Stat				
SHOULD	Receiving Protocol Packets If an LSA specified in the Link State Request packet cannot be found in the database, something has gone wrong with the Database Exchange process, and neighbor event BadLSReq should be generated.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3- 14.18		1 Receiving protocol բ 56 Receiving link state				
MUST		ocol Packets edgment is for ate retransmis				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-15.1		21 Receiving Hello pack Receiving Hello Pack				
MUST	Receiving Hello Packets The values of the HelloInterval field in the received Hello packet must be checked against the values configured for the receiving interface. Any mismatch causes processing to stop and the packet to be dropped.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-15.2	RFC 5340, s4.2.2.1 p21 Receiving Hello packets RFC 2328, s10.5 p96 Receiving Hello Packets					
MUST	Hello packet m the receiving	o Packets the RouterDead uust be checked interface. Any to be dropped	against the v	alues configu	ired for	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-15.3	RFC 5340, s4.2.2.1 p21 Receiving Hello packets RFC 2328, s10.5 p96 Receiving Hello Packets						
MUST	must be clear	o Packets ng interface i in received He stop and the p	llo Packets an	d a mismatch			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-15.4		p21 Receiving Hello pace 8 Receiving Hello Pace					
MUST	must be set in	o Packets ng interface i received Hell ne packet to be	o Packets and				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-16.1	RFC 5340, s4.4.1 p23 The LSA Header RFC 2328, s12.1.1 p116 LS age						
MUST	The LSA Header LSAs are also aged as they are held in each router"s database.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-16.2	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.1 p	3 The LSA Header 116 LS age					
MUST	The LSA Header The age of an	LSA is never i	ncremented pas	t MaxAge.			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-16.3	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.1 p						
MUST	The LSA Header When an LSA"s	age first read	hes MaxAge, it	is reflooded	1.		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3-16.4		RFC 5340, s4.4.1 p23 The LSA Header RFC 2328, s12.1.1 p116 LS age						
MUST		Age is finally	r flushed from e database syn					
	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		
ANVL-OSPFV3-16.5	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.1 p							
MUST		stances of a LS um, an instance	A have identic of age MaxAge					
	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		
ANVL-OSPFV3-16.6	RFC 5340, s4.4.1 p23 The LSA Header RFC 2328, s12.1.1 p117 LS age							
MUST	If the two ins and LS Checksu ages differ by	The LSA Header If the two instances of a LSA have identical LS sequence number and LS Checksum and none of them is of age MaxAge then if their ages differ by more than MaxAgeDiff, the instance having the smaller age is accepted as most recent.						
	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		
ANVL-OSPFV3-16.7	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.5 p	3 The LSA Header 119 Advertising Route	er					
MUST	The LSA Header The Advertising the LSA's orig	ng Router field	specifies the	OSPF Router	ID 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		
	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	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-16.8	RFC 5340, s4.4.1 p23 The LSA Header RFC 2328, s12.1.6 p120 LS sequence number						
MUST	originates any	InitialSequenc	eNumber the fi	rst time it			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-16.9	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber				
MUST	A router uses LSA.	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. (This test checks for Network-LSAs)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 16.10	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber				
MUST	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. (This test checks for Inter-Area-Prefix-LSAs)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3- 16.11	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber				
MUST	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. (This test checks for Inter-Area-Router-LSAs)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16
ANVL-OSPFV3- 16.12	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber			
MUST	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. Afterwards, the LSA's sequence number is incremented each time the router originates a new instance of the LSA. (This test checks for Router-LSA)					
	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
ANVL-OSPFV3- 16.13	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber			
MUST	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. Afterwards, the LSA"s sequence number is incremented each time the router originates a new instance of the LSA. (This test checks for Network-LSA)					
	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
ANVL-OSPFV3- 16.14	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber			
MUST	The LSA Header A router uses InitialSequenceNumber the first time it originates any LSA. Afterwards, the LSA"s sequence number is incremented each time the router originates a new instance of the LSA. (This test checks for Inter-Area-Prefix-LSA)					
	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: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass
ANVL-OSPFV3- 16.15	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	nber			
MUST	any LSA. After each time the	InitialSequence wards, the LSA router origina	eNumber the fi "s sequence nu tes a new inst Area-Router-LS	mber is incre ance of the I	emented	
	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





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3- 16.16		RFC 5340, s4.4.1 p23 The LSA Header RFC 2328, s12.1.6 p120 LS sequence number						
MUST	The LSA Header When an attempt is made to increment the sequence number past the maximum value of N - 1 (0x7ffffffff; also referred to as MaxSequenceNumber), the current instance of the LSA must first be flushed from the routing domain.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 16.17	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.6 p	3 The LSA Header 120 LS sequence nur	mber					
MUST	The LSA Header As soon as this flooding of a LSA with LS sequence number MaxSequenceNumber has been acknowledged by all adjacent neighbors, new instance can be originated with sequence number of InitialSequenceNumber.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3- 16.18	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.7 p							
MUST	bytes; subtrac (two bytes) yi	also contains ting the size	s the length of of the LS age at of data to c LSA)	field				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 16.19	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.7 p							
MUST	subtracting the yields the amo	also contains			oytes;			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 16.20	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.7 p						
MUST	The LSA header subtracting the amount of data	The LSA Header The LSA header also contains the length of the LSA in bytes; subtracting the size of the LS age field (two bytes) yields the amount of data to checksum. (This test checks for Inter-Area-Prefix-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 16.21	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.7 p						
MUST	The LSA Header The LSA header also contains the length of the LSA in bytes; subtracting the size of the LS age field (two bytes) yields the amount of data to checksum. (This test checks for Inter-Area-Router-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 16.22	RFC 5340, s4.4.1 p2 RFC 2328, s12.1.7 p						
SHOULD	The LSA Header The LS checksum field cannot take on the value of zero; the occurrence of such a value should be considered a checksum failure.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-	RFC 5340, s4.4.1 p2	4 The LSA Header					
16.23 MUST	The LSA Header Instead of the IPv4 behavior of encoding the network number within the AS-external-LSA"s Link State ID, the IPv6 Link State ID simply serves as a way to differentiate multiple LSAs originated by the same router						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, s4.4.1 p24 The LSA Header						
16.24 MUST		originates a L originates a L E ID is set equ			ce ID		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-17.1		4 The link-state datab 45 Determining which					
MUST	The Link-State The LSA having	Database the newer LS	sequence numbe	r is more red	cent.		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-18.1	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p123 Originating LSAs						
MUST	Originating LSAs Destinations are advertised one at a time so that the change in any single route can be flooded without reflooding the entire collection of routes. This test is for Inter-Area-Prefix-LSA.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-18.2	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p123 Originating LSAs						
MUST	single Link St This test veri	SAs boding procedur ate Update pac fies whether t single Link St	ket. he DUT recogni	zes multiple			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3-18.3	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p124 Originating LSAs							
MUST		instance of a	n LSA is origi S age is set t		S 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		
	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-OSPFV3-18.4	RFC 5340, s4.4.3 p2 RFC 2328, s12.4 p12							
MAY	A change in an	Originating LSAs A change in an interface"s state may mean that it is necessary to produce a new instance of the router-LSA.						
	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		
ANVL-OSPFV3-18.5	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p125 Originating LSAs							
SHOULD	Originating LSAs If an attached network"s Designated Router gets changed a new router-LSA should be originated.							
	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		
ANVL-OSPFV3-18.6	RFC 5340, s4.4.3 p2 RFC 2328, s12.4 p12							
SHOULD		d Router chang	es and if the work-LSA shoul					
	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		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-18.7	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p125 Originating LSAs							
SHOULD	network-LSA th	itself is no l	onger the Desi ve originated domain.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-18.8	RFC 5340, s4.4.3 p2 RFC 2328, s12.4 p12							
MAY	If one of the this may mean	Originating LSAs If one of the neighboring routers changes to the FULL state then this may mean that it is necessary to produce a new instance of the router-LSA.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-18.9	RFC 5340, s4.4.3 p25 Originating LSAs RFC 2328, s12.4 p125 Originating LSAs							
MAY	Originating LSAs If one of the neighboring routers changes from the FULL state then this may mean that it is necessary to produce a new instance of the router-LSA.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-	RFC 5340, s4.4.3 p25 Originating LSAs							
18.11 MAY	Originating LSAs The state or interface ID of one of the router"s interfaces changes. The router may need to (re)originate or flush its Link-LSA and one or more router-LSAs and/or intra-area-prefix-LSAs. (This test is for (re)origination or flush of Router-LSA during State change)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p25 Originating LSAs						
18.12 MAY	may need to (rrouter-LSAs an	nterface ID of re)originate or d/or intra-are for (re)origin	flush its Lin a-prefix-LSAs.	k-LSA and one	e or more	. The router	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p2	5 Originating LSAs		-			
18.13 MAY	Originating LSAs The state or interface ID of one of the router"s interfaces changes. The router may need to (re)originate or flush its Link-LSA and one or more router-LSAs and/or intra-area-prefix-LSAs. (This test is for flushing of Intra-Area-Prefix-LSA during the state change.)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 18.14	RFC 5340, s4.4.3 p25 Originating LSAs						
MAY	Originating LSAs The identity of a link"s Designated Router changes. The router may need to (re)originate or flush the link"s network-LSA and one or more router-LSAs and/or intra-area-prefix-LSAs. (This test is for "(re)originate".)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p2	5 Originating LSAs					
18.15 MAY	may need to (r	of a link"s Des re)originate or outer-LSAs and/	flush the lin	k"s network-I			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p25 Originating LSAs						
18.16 MAY	to (re)origina router-LSAs an	nsitions to/fr					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p2	5 Originating LSAs					
18.17 MAY	Originating LSAs A neighbor transitions to/from "Full" state. The router may need to (re)originate or flush the link"s network-LSA and one or more router-LSAs and/or intra-area-prefix-LSAs. (This test is for "from Full state".)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 18.18	RFC 5340, s4.4.3 p25 Originating LSAs						
MAY	Originating LSAs The Interface ID of a neighbor changes. This may cause a new instance of a router-LSA to be originated for the associated area.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 18.19	RFC 5340, s4.4.3 p2	5 Originating LSAs					
MUST	configuration)			(both through	1		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 18.20	RFC 5340, s4.4.3 p25 Originating LSAs						
MUST	only router at	s added to an	attached link. link, causes t efix-LSA.		ter is the		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p2	5 Originating LSAs					
18.21 MUST	A prefix is de	Originating LSAs A prefix is deleted (both through configuration). This causes the router to reoriginate its link-LSA for the link.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p25 Originating LSAs						
18.22 MUST	Originating LSAs A prefix is deleted (both through configuration). If it is the only router attached to the link, causes the router to reoriginate an intra-area-prefix-LSA.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3 p2	5 Originating LSAs					
18.23 MUST	Originating LSAs A new link-LSA is received, causing the link"s collection of prefixes to change. If the router is the Designated Router for the link, it originates a new intra-area-prefix-LSA.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16			
ANVL-OSPFV3-	RFC 5340, s4.4.3 p25 Originating LSAs								
18.24 MAY	Originating LSAs The state or interface ID of one of the router"s interfaces changes. The router may need to (re)originate or flush its Link-LSA and one or more router-LSAs and/or intra-area-prefix-LSAs. (This test is for (re)origination or flush of Link-LSA during State change)								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-19.1	RFC 5340, s4.4.3.2 p	27 Router-LSAs							
MUST	Router-LSAs Router-LSAs ha	Router-LSAs Router-LSAs have area flooding scope.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-19.2	RFC 5340, s4.4.3.1 p27 LSA Options								
SHOULD	Router-LSAs The V6-bit should be set unless the router will not participate in transit IPv6 routing. The E-bit should be clear if and only if the attached area is an OSPF stub or OSPF NSSA area. (This is to test Router-LSA for stub area)								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL			
ANVL-OSPFV3-19.4	RFC 5340, s4.4.3.2 p RFC 2328, s12.4.1 p	027 Router-LSAs 127 Router-LSAs							
MUST		indicates whet							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-19.5	NEGATIVE RFC 5340, s4.4.3.2 p27 Router-LSAs RFC 2328, s12.4.1 p127 Router-LSAs							
			her it is an a (bit B, respe					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-19.6	RFC 5340, s4.4.3.2 p RFC 2328, s12.4.1 p							
SHOULD	Router-LSAs Bit B should be set whenever the router is actively attached to two or more areas, even if the router is not currently attached to the OSPF backbone area. (This is for DUT attached to two non-backbone areas)							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-19.7	RFC 5340, s4.4.3.2 p27 Router-LSAs RFC 2328, s12.4.1 p128 Router-LSAs							
MUST	Router-LSAs The router sets bit V in its router-LSA for Area A if and only if the router is the endpoint of one or more fully adjacent virtual links having Area A as their Transit area.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-19.8	RFC 5340, s4.4.3.2 p27 Router-LSAs RFC 2328, s12.4.1 p129 Router-LSAs,							
MUST	each interface		d a router-LSA ed network doe o the LSA.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, s4.4.3.2 p	27 Router-LSAs					
19.11 MUST	appending "lindescription is	nk descriptions s 16 bytes long	ces to the are " to the route , consisting o or Interface I	r-LSA. Each l f five fields	link s: (link) Typ	e,	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3.2 p	28 Router-LSAs					
19.12 MUST	Router-LSAs Interfaces in state "Down" or "Loopback" are not described (This test is for Down state)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3.2 p28 Router-LSAs						
19.14 MUST	Router-LSAs Within each link description, the Metric field is always set to the interface"s output cost, and the Interface ID field is set to the interface"s OSPF Interface ID.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, s4.4.3.2 p28 Router-LSAs						
19.16 MUST	Router-LSAs If the router is fully adjacent to the link"s Designated Router, or if the router itself is Designated Router and is fully adjacent to at least one other router, add a single Type 2 link description (transit network).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, s4.4.3.2 p	28 Router-LSAs					
19.17 MUST	Router-LSAs If the neighboring router is fully adjacent, add a Type 4 link description (virtual). The Neighbor Interface ID field is set to the Interface ID advertised by the neighbor in its Hello packets, and the Neighbor Router ID field is set to the neighbor"s Router ID						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-20.1	RFC 5340, s4.4.3.3 p	29 Network-LSAs		-			
MUST	Network-LSAs Network-LSAs h	ave area flood	ing scope.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-20.2	RFC 5340, s4.4.3.3 p	29 Network-LSAs					
MUST	Network-LSAs A network-LSA is originated for every broadcast or NBMA link with an elected Designated Router that is fully adjacent with at least one other router on the link. The network-LSA is originated by the link's Designated Router and lists all routers on the link with which it is fully adjacent.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-20.3	RFC 5340, s4.4.3.3 p RFC 2328, s12.4.2 p						
SHOULD		has formerly be is no longer, originated.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-20.4	RFC 5340, s4.4.3.3 p29 Network-LSAs RFC 2328, s12.4.2 p134 Network-LSAs (see also s13.4 p151 Receiving self-originated LSAs),						
	Network-LSAs When a router"s Router ID has changed, any network-LSAs that were originated with the router"s previous Router ID must be flushed.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-20.5	RFC 5340, s4.4.3.3 p	29 Network-LSAs					
MUST		k-LSA"s Link S Router on the	tate ID is set	to the Inter	face ID of		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-21.1	RFC 5340, s4.4.3.4 p	o30 Inter-Area-Prefix-I	_SAs				
MUST	Inter-Area-Pre Inter-area-pre		area flooding	scope.			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-21.2	RFC 5340, s4.4.3.4 p RFC 2328, s12.4.3. p	o30 Inter-Area-Prefix-I o136 Summary-LSAs	_SAs				
MUST	Inter-Area-Prefix-LSAs If for a route the area associated with this set of paths is the Area A itself, do not generate a summary-LSA for the route for advertising into Area A. (Type 3 Summary LSA has been renamed as Inter-Area-Prefix-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	
ANVL-OSPFV3-21.3	RFC 5340, s4.4.3.4 p30 Inter-Area-Prefix-LSAs RFC 2328, s12.4.3. p136 Summary-LSAs						
MUST	Inter-Area-Prefix-LSAs If for a route the area associated with the set of paths is not Area A but the next hops associated with this set of paths belong to Area A itself, do not generate a summary-LSA for the route for advertising into Area A. (Type 3 Summary LSA has been renamed as Inter-Area-Prefix-LSA)						
	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	
ANVL-OSPFV3-21.4	RFC 5340, s4.4.3.4 p RFC 2328, s12.4.3 p	o30 Inter-Area-Prefix-I 136 Summary-LSAs	LSAs				
MUST	Inter-Area-Prefix-LSAs If the destination of a route is an AS boundary router, a summary-LSA should be originated if and only if the routing table entry describes the preferred path to the AS boundary router. If so, a Type 4 summary-LSA is originated for the destination. (Type 4 Summary-LSA has been renamed as Inter-Area-Router-LSA.)						
	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	
ANVL-OSPFV3-21.5	RFC 5340, s4.4.3.4 p30 Inter-Area-Prefix-LSAs RFC 2328, s12.4.3. p136 Summary-LSAs						
MUST	Inter-Area-Prefix-LSAs While originating summary-LSAs for networks reachable by inter-area routes at most a single Type 3 summary-LSA is originated for each area address range. (Type 3 Summary-LSA has been renamed as Inter-Area-Prefix-LSA.)						
	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	
ANVL-OSPFV3-21.6	RFC 5340, s4.4.3.4 p	o30 Inter-Area-Prefix-I	LSAs				
MUST	its addressing distinguish mu	e ID of an inte s semantics, an	er-area-prefix- nd simply serve erea-prefix-LSA	s to	all 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	
	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	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-OSPFV3-22.1	RFC 5340, s4.4.3.5 p	o31 Inter-Area-Router	-LSAs			
MUST	Inter-Area-Rou Inter-area-rou	iter-LSAs iter-LSAs have	area flooding	scope.		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-22.2	RFC 5340, s4.4.3.5 p	32 Inter-Area-Router	-LSAs	-	-	
SHOULD		eld in an inte the Options fi				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-23.1	RFC 5340, s4.4.3.6 p	32 AS-External-LSAs	3			
MUST	AS-External-LS AS-external-LS	SAs SAs have AS flo	oding scope.			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-23.2	RFC 5340, s4.4.3.6 p	32 AS-External-LSAs	3			
MUST	addressing sem	EAs E ID of an AS-e mantics, and si tternal-LSAs th	mply serves to	distinguish		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-23.4	RFC 5340, s4.4.3.6 p	o32 AS-External-LSAs	3			
MUST		SAs g address is pr G-external-LSA"			SA if and	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass





	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16			
ANVL-OSPFV3-23.5	RFC 5340, s4.4.3.6 p	o33 AS-External-LSAs	3		•				
SHOULD		AS-External-LSAs Received non-zero values for Reference LS Type field should be ignored.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-24.1	RFC 5340, s4.4.3.8 p	o34 Link-LSAs							
MUST	Link-LSAs Link-LSAs have	e link-local fl	ooding scope.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-24.2	RFC 5340, s4.4.3.8 p	RFC 5340, s4.4.3.8 p35 Link-LSAs							
MUST	Link-LSAs The Link State	e ID is set to	the router"s I	nterface ID (on Link L.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			
ANVL-OSPFV3-24.3	RFC 5340, s4.4.3.8 p	o35 Link-LSAs							
MUST	Link-LSAs The Router Pri inserted into	ority of the r	outer"s interf	ace to Link I	is				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL			
ANVL-OSPFV3-24.4	RFC 5340, s4.4.3.8 p	o35 Link-LSAs							
MUST	Link-LSAs The link-LSA"s Options field is set to reflect the router"s capabilities. On multi-access links, the Designated Router will logically OR the link-LSA Options fields for all fully adjacent neighbors in Link L"s network-LSA.								
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:			
	pass	pass	pass	pass	pass	pass			
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:			
	pass	pass	pass	10.3: pass	10.3: pass	pass			





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-24.5	RFC 5340, s4.4.3.8 p	o35 Link-LSAs						
MUST	Link-LSAs The router inserts its link-local address on Link L into the Link-LSA.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-24.6	RFC 5340, s4.4.3.8 p	o35 Link-LSAs						
MUST	Link L is adde	ed to the Link-	t has been con LSA, by specif PrefixOptions	ying	s Prefix			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-25.1	RFC 5340, s4.4.3.9 p	RFC 5340, s4.4.3.9 p36 Intra-Area-Prefix-LSAs						
MUST	Intra-Area-Pre Intra-area-pre		area flooding	scope.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-25.2	RFC 5340, s4.4.3.9 p	o36 Intra-Area-Prefix-l	_SAs					
MUST	network link b	ociates a list by referencing	of IPv6 addres a network- LSA s with a route	, or associat	ces a			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-25.3	RFC 5340, s4.4.3.9 p	o32, p37 Intra-Area-Pr	refix-LSAs					
MUST	Intra-Area-Prefix-LSAs If the link-LSA"s Advertising Router is fully adjacent to the Designated Router and the Link State ID matches the neighbor"s interface ID, the list of prefixes in the link-LSA is copied into the intra- area-prefix-LSA that is being built.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3-25.4	RFC 5340, s4.4.3.9 p	37 Intra-Area-Prefix-l	_SAs					
MUST	Multiple prefi Prefix are con and a single i	Intra-Area-Prefix-LSAs Multiple prefixes having the same PrefixLength and Address Prefix are considered to be duplicates; and a single instance of the duplicate prefix should be included in the intra-area-prefix-LSA. The Metric field for all prefixes is set to 0.						
	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		
ANVL-OSPFV3-25.5	RFC 5340, s4.4.3.9 p	o37 Intra-Area-Prefix-l	_SAs					
MUST	A router build	Intra-Area-Prefix-LSAs A router builds an intra-area-prefix-LSA to advertise prefixes for its attached stub links.						
	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		
ANVL-OSPFV3-25.6	RFC 5340, s4.4.3.9 p	o38 Intra-Area-Prefix-l	_SAs					
MUST	the area, it i scope IPv6 int	e or more virtu ncludes one of erface address ing the LA-bit gth to 128 and	its global es in the LSA	(if it hasn"t	ī.			
	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		
ANVL-OSPFV3-25.7	RFC 5340, s4.4.3.9 p	o39 Intra-Area-Prefix-l	_SAs					
MAY	Intra-Area-Pre When network of to move prefix	efix-LSAs conditions chan ces from one in	ge, it may be tra-area-prefi	necessary for x-LSA to anot	r a router ther.			
	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		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-26.1	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p143 The Flooding Procedure							
MUST	acknowledged s		re reliable, e nowledgments a					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-26.2	RFC 5340, s4.5 p40 RFC 2328, s13 p143	Flooding The Flooding Proced	ure					
MUST	Flooding For each LSA of LSA"s LS check discard the LS	sum. If the c	Link State Upd hecksum turns	-				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-26.3	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p144 The Flooding Procedure,							
MUST	Flooding If the LSA"s LS age is equal to MaxAge, and there is currently no instance of the LSA in router"s link state database, and none of router"s neighbors are in state Exchange or Loading send direct Acknowledgment packet to the sending neighbor and discard the LSA.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-26.4	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p144 The Flooding Procedure							
MUST	was received v	ria flooding an	se copy, and i d installed le LSA (without	ss than MinLS	SArrival			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16			
ANVL-OSPFV3-26.5	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p144 The Flooding Procedure								
MUST	than the datab than MinLSArri	ase copy and t	or the receiv he database co o, immediately interfaces.	py was insta	lled more				
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass			
	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-OSPFV3-26.6	RFC 5340, s4.5 p40 RFC 2328, s13 p144	Flooding The Flooding Proced	ure						
MUST	possibly ackno	Flooding When a new instance of a LSA is installed in database, a router possibly acknowledges the receipt of the LSA by sending a Link State Acknowledgment packet on the receiving interface.							
	Ubuntu 16.04: unpredict	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			
ANVL-OSPFV3-26.7	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p145 The Flooding Procedure								
MUST	Flooding When the received LSA is at most as recent as the database copy of that LSA then if there is an instance of the LSA on the sending neighbor"s Link State Request list, generate the neighbor event BadLSReq.								
	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			
ANVL-OSPFV3-26.8	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p145 The Flooding Procedure								
SHOULD	and is listed receiving adja acknowledgment	in the Link st cency, the rou	came instance a late retransmis lter itself is The router sh lission list.	sion list for expecting an	the 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			
	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	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-26.9	RFC 5340, s4.5 p40 RFC 2328, s13 p145	RFC 5340, s4.5 p40 Flooding RFC 2328, s13 p145 The Flooding Procedure						
MUST	number equal t	Flooding If the database copy has LS age equal to MaxAge and LS sequence number equal to MaxSequenceNumber, simply discard the received LSA without acknowledging it.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3- 26.10	RFC 5340, s4.5 p40 RFC 2328, s13.4 p15	Flooding 51 Receiving self-origi	nated LSAs					
MUST	Flooding A self-originated LSA is detected when the LSA"s Advertising Router is equal to the router"s own Router ID and in most cases (), the router must then advance the LSA"s LS sequence number one past the received LS sequence number, and originate a new instance of the LSA.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-	RFC 5340, s4.5 p40 Flooding							
26.11	RFC 2328, s13.4 p151 Receiving self-originated LSAs							
SHOULD	router no long instead of upd routing domain MaxAge and ref	ger has an (adv lating the LSA, by incrementi looding.	eted LSA is a secrtisable) rou the LSA shoul ang the receive	te to the des d be flushed d LSA"s LS ag	stination from the ge to			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3- 26.12	RFC 5340, s4.5 p40 RFC 2328, s13.4 p15	Flooding 51 Receiving self-origi	nated LSAs					
SHOULD	the router no destination in flushed from t	Flooding If the received self-originated LSA is an AS-external-LSA and the router no longer has an (advertisable) route to the destination instead of updating the LSA, the LSA should be flushed from the routing domain by incrementing the received LSA"s LS age to MaxAge and reflooding.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3- 26.13	RFC 5340, s4.5 p40 RFC 2328, s13.4 p15	Flooding 51 Receiving self-origi	nated LSAs				
SHOULD	Flooding If the received self-originated LSA is a network-LSA but the router is no longer Designated Router for the network, instead of updating the LSA, the LSA should be flushed from the routing domain by incrementing the received LSA"s LS age to MaxAge and reflooding.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-27.1	RFC 5340, s4.5.1 p4	1 Receiving Link State	e Update packets				
MUST	Receiving Link State Update Packets Discard the LSA and get the next one from the Link State Update packet if the interface area has been configured as a stub or NSSA area and the LS type indicates "AS flooding scope" (This is to test stub area)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-27.2	RFC 5340, s4.5.1 p4	1 Receiving Link State	e Update packets				
MUST	Receiving Link State Update Packets if the flooding scope of the LSA"s LS type is set to "reserved", discard the LSA						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-28.1	RFC 5340, s4.5.2 p41 Sending Link State Update packets RFC 2328, s13.3 p149 Next step in the Flooding Procedure						
MUST	If the adjacen	ık State reques	ckets full and there t list and if he Link state	the new LSA	is more		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-28.2		1 Sending Link State 50 Sending protocol p					
MUST	On broadcast no but Link State		nk State Updat s carrying ret				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-28.3	RFC 5340, s4.5.2 p4	2 Sending Link State	Update packets				
MUST	If the flooding		ckets flooding scop router interfa		g virtual		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-28.4	RFC 5340, s4.5.2 p4	2 Sending Link State	Update packets				
MUST	Sending Link State Update Packets If the flooding scope is "area flooding scope", the eligible interfaces are those interfaces connecting to the LSA"s associated area.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-28.5	NEGATIVE RFC 5340, s4.5.2 p4	NEGATIVE RFC 5340, s4.5.2 p42 Sending Link State Update packets					
MUST	If the flooding eligible inter	Sending Link State Update Packets If the flooding scope is "area flooding scope", the eligible interfaces are those interfaces connecting to the LSA"s associated area.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-28.6	RFC 5340, s4.5.2 p4	RFC 5340, s4.5.2 p42 Sending Link State Update packets						
MUST	If the flooding	igible interfa	ckets nk-local flood ce, the one co					
	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		
ANVL-OSPFV3-28.7	NEGATIVE RFC 5340, s4.5.2 p4	2 Sending Link State	Update packets					
MUST	If the flooding	igible interfa	ckets nk-local flood ce, the one co					
	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		
ANVL-OSPFV3-28.8	RFC 5340, s4.5.2 p4	2 Sending Link State	Update packets					
MUST	Sending Link State Update Packets The LS type is unrecognized, and the U-bit in the LS Type is set to 1 (store and flood the LSA, as if type understood)							
	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		
ANVL-OSPFV3-28.9	RFC 5340, s4.5.2 p4	2 Sending Link State	Update packets					
MUST	Sending Link State Update Packets The LS type is unrecognized, and the U-bit in the LS Type is set to 1 (store and flood the LSA, as if type understood)							
	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		
ANVL-OSPFV3-30.1	RFC 5340, s4.7 p44 RFC 2328, s15 p158							
MUST	Virtual Links When an adjacency is established over a virtual link, then OSPF packets pertaining to the backbone area will flow over 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		
	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	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-30.2		RFC 5340, s4.7 p44 Virtual links RFC 2328, s15 p158 Virtual Links						
MUST	Virtual Links AS-external-LS	As are NEVER f	looded over vi	rtual adjacer	ncies.			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-30.3	RFC 5340, s4.7 p44 RFC 2328, s15 p159							
MUST		e intra-area p	s NOT configur ath between th					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-30.4	RFC 5340, s4.7 p44 Virtual links RFC 2328, s15 p159 Virtual Links							
SHOULD	Virtual Links When the cost of a virtual link changes, a new router-LSA should be originated for the backbone area.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-30.5	RFC 5340, s4.7 p44 RFC 2328, s15 p159							
MUST		en link state a virtual lin	retransmission k.	s, RxmtInterv	al, is			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-30.6	RFC 5340, s4.7 p44	Virtual links					
MUST	Virtual Links LSAs having AS adjacencies, n virtual adjace a generalizati	rized over ss.This is					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-30.7	RFC 5340, s4.7 p44	Virtual links					
MUST	Virtual Links Like all other IPv6 OSPF interfaces, virtual links are assigned unique (within the router) Interface IDs.These are advertised in Hellos sent over the virtual link and in the router"s router-LSAs.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-31.1	RFC 5340, s4.8.3 p47 Calculating the Inter-Area Routes RFC 2328, s16.2 p168 Calculating the inter-area routes						
MUST	Calculating the Inter-Area Routes If the router has active attachments to multiple areas, only backbone summary-LSAs are examined. (Type 3 Summary LSA has been renamed as Inter-Area-Prefix-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-31.2	RFC 5340, s4.8.3 p4	7 Calculating the Inter	r-Area Routes				
SHOULD	Prefixes havin	g the NU-bit s	Inter-Area Routes the NU-bit set in their Prefix Options field ed by the inter-area route calculation.				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-32.1	RFC 5340, s4.8.5 p4	8 Calculating AS Exte	rnal and NSSA Route	es			
MUST	The default ro		rnal-LSAs or N	SSA-LSAs is a	advertised		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-33.1	RFC 5340, sA.1 p57	Encapsulation of OSF	PF Packets				
SHOULD	As such, the m		sses have been s sent to thes		should have		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-33.2	RFC 5340, sA.1 p57	Encapsulation of OSF	PF Packets				
SHOULD	Encapsulation of OSPF Packets As such, the multicast addresses have been chosen with link-local scope, and packets sent to these addresses should have their IPv6 Hop Limit set to 1. (This test is for OSPF-DD> packet)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-33.3	NEGATIVE RFC 5340, sA.1 p57 Encapsulation of OSPF Packets						
SHOULD	As such, the m link-local sco their IPv6 Hop		sses have been s sent to thes 1.		should have		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-33.4	RFC 5340, sA.1 p57	Encapsulation of OSF	PF Packets				
SHOULD	As such, the malink-local scotheir IPv6 Hop	of OSPF Packet ulticast addre pe, and packet Limit set to for OSPF-LSU>	sses have been s sent to thes 1.		should have		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-33.5	NEGATIVE RFC 5340, sA.1 p57	Encapsulation of OSF	PF Packets				
SHOULD	Encapsulation of OSPF Packets As such, the multicast addresses have been chosen with link-local scope, and packets sent to these addresses should have their IPv6 Hop Limit set to 1. (This test is for OSPF-LSA> packet)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 33.12	RFC 5340, sA.1 p58 Encapsulation of OSPF Packets						
SHOULD	Encapsulation of OSPF Packets This multicast address has been assigned the value FF02::5. All routers running OSPF should be prepared to receive packets sent to this address.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 5340, sA.1 p58 Encapsulation of OSPF Packets						
33.13 MUST		of OSPF Packet are always sen		ination			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-	RFC 5340, sA.1 p58 Encapsulation of OSPF Packets						
33.14 MUST	This multicast the Designated prepared to re	l Router and Ba	een assigned t ckup Designate destined to th	d Router must			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	unpredict	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	unpredict	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 33.15	NEGATIVE RFC 5340, sA.1 p58	Encapsulation of OSF	PF Packets				
MUST	This multicast	l Router and Ba ceive packets	s been assigned t ckup Designate destined to th	d Router must			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3- 33.16	RFC 5340, sA.1 p58	Encapsulation of OSF	PF Packets				
MUST	Encapsulation of OSPF Packets This multicast address has been assigned the value FF02::6. Both the Designated Router and Backup Designated Router must be prepared to receive packets destined to this address. (This test is for Backup Designated Router.)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-34.1	RFC 5340, sA.2 p59	The Options Field					
SHOULD	The Options Fi V6-bit If this bit is IPv6 routing o	clear, the ro	outer/link shou	ld be exclude	ed from		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16		
ANVL-OSPFV3-34.2	RFC 5340, sA.2 p59 The Options Field RFC 2328, s12.1.2 p117 Options							
SHOULD		esents OSPF"s	ExternalRoutin					
	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		
ANVL-OSPFV3-34.3	RFC 5340, sA.2 p59 RFC 2328, s12.1.2 p							
SHOULD	should be set non-stub areas	esents OSPF"s in all LSAs as	ExternalRoutin sociated with					
	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		
ANVL-OSPFV3-34.4	RFC 5340, sA.2 p59 The Options Field RFC 2328, s12.1.2 p117 Options							
SHOULD	The Options Field The E-bit represents OSPF"s ExternalRoutingCapability. This bit should be set in all LSAs associated with (non-backbone) non-stub areas. (This test checks for Inter-Area-Router-LSA)							
	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		
ANVL-OSPFV3-34.5	RFC 5340, sA.2 p59 RFC 2328, s12.1.2 p							
SHOULD	The Options Fi E-bit should k with a stub ar	e reset (set t	o 0) in all ro	uter-LSAs ass	sociated			
	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		





	Release	Release	Release	Release	Release	Master		
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16		
ANVL-OSPFV3-34.6	RFC 5340, sA.2 p59 The Options Field RFC 2328, s12.1.2 p117 Options							
SHOULD	The Options Fi E-bit should b with a stub ar	e reset (set t	o 0) in all ro	uter-LSAs ass	sociated			
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-34.7	RFC 5340, sA.2 p59 RFC 2328, s12.1.2 p							
SHOULD	The Options Field E-bit should be reset (set to 0) in all network-LSAs associated with a stub area.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		
ANVL-OSPFV3-34.8	RFC 5340, sA.2 p59	The Options Field						
MUST	The Options Field R-bit This bit (the `Router" bit) indicates whether the originator is an active router Clearing the router bit would be appropriate for a multi-homed host that wants to participate in routing, but does not want to forward non-locally addressed packets.							
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	pass	pass	pass	pass	pass	pass		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	pass	pass	pass	10.3: pass	10.3: pass	pass		
ANVL-OSPFV3-35.1	RFC 5340, sA.3.1 p6	1 The OSPF packet h	neader					
MUST			link are labe	led				
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:		
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL		
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:		
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL		





	Release	Release	Release	Release	Release	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-OSPFV3-35.2	NEGATIVE RFC 5340, sA.3.1 p6	1 The OSPF packet h	eader			
MUST	The OSPF Packet Header Packets traversing a virtual link are labeled with the backbone Area ID of 0.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL
ANVL-OSPFV3-35.3	RFC 5340, sA.3.1 p6	2 The OSPF packet h	eader			
MUST	The OSPF Packet Header +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-36.1	RFC 5340, sA.3.2 p6	2 The Hello Packet				
MUST	parameters (He parameters are can inhibit th	onnected to a c elloInterval an e included in H	common link mus d RouterDeadIn ello packets a eighbor relati val.)	terval). Thes llowing diffe	s e	
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-36.2	RFC 5340, sA.3.2 p6	2 The Hello Packet				
MUST	The Hello Packet All routers connected to a common link must agree on certain parameters (HelloInterval and RouterDeadInterval). These parameters are included in Hello packets allowing differences can inhibit the forming of neighbor relationships. (This test is for RouterDeadInterval.)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-37.1	RFC 5340, sA.4.1.1	o70 Prefix Options					
SHOULD	Prefix Options NU-bit The "no unicast" capability bit. If set, the prefix should be excluded from IPv6 unicast calculations						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-38.1	RFC 5340, sA.4.3 p7	'5 Router-LSAs					
MUST	Router-LSAs bit V When set, the router is an endpoint of one or more fully adjacent virtual links having the described area as Transit area (V is for virtual link endpoint).						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-39.1	RFC 5340, sA.4.5 p7	7 Inter-Area-Prefix-LS	SAs				
MUST	Inter-Area-Prefix-LSAs Default summary routes are used in stub areas instead of flooding a complete set of external routes. When describing a default summary route, the inter-area-prefix-LSA"s PrefixLength is set to 0.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-39.2	RFC 5340, sA.4.5 p7	8 Inter-Area-Prefix-LS	SAs				
MUST	of addresses (cost to any re (Note: we are	r-Area-Prefix-L see Section C. eachable compon testing that t	SA is describi 2) the cost is ent of the add he metric of n	set to the rress range. ter-Area-Pres	maximum		
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-40.1	RFC 5340, sA.4.10 p	85 Intra-Area-Prefix-L	SAs				
SHOULD	If Referenced router-LSA, Re	Intra-Area-Prefix-LSAs If Referenced LS type is 0x2001, the prefixes are associated with a router-LSA, Referenced Link State ID should be 0 and Referenced Advertising Router should be the originating router"s Router ID.					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-40.2	RFC 5340, sA.4.10 p	85 Intra-Area-Prefix-L	SAs				
SHOULD	Intra-Area-Prefix-LSAs If Referenced LS type is 0x2002, the prefixes are associated with a network-LSA, Referenced Link State ID should be the Interface ID of the link"s Designated Router and Referenced Advertising Router should be the Designated Router"s Router ID.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-41.2	RFC 5340, sB p86 Architectural Constants RFC 2328, sB p218 Architectural Constants						
MUST	Architectural Constants LSInfinity is the metric value indicating that the destination described by an LSA is unreachable. Used in summary-LSAs as an alternative to premature aging. It is defined to be the 24-bit binary value of all ones: Oxffffff. (Type 3 Summary-LSA has been renamed as Inter-Area-Prefix-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	
ANVL-OSPFV3-41.3	RFC 5340, sB p86 Architectural Constants RFC 2328, sB p218 Architectural Constants						
MUST	Architectural Constants LSInfinity is the metric value indicating that the destination described by an LSA is unreachable. Used in AS-external-LSAs as an alternative to premature aging. It is defined to be the 24-bit binary value of all ones: 0xffffff.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	FAIL	FAIL	FAIL	10.3: FAIL	10.3: FAIL	FAIL	





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-42.1	RFC 5340, sC.3 p89 Router Interface Parameters						
MUST	Router Interface Parameters Instance ID The OSPF protocol instance associated with this OSPF interface. Defaults to 0.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-43.1	RFC 2328, s2.3 p23	Use of external routin	g information				
MUST	RFC 2328 Compatibility External routing information is flooded unaltered throughout the AS.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-43.2	RFC 2328, s10 p81 7	The neighbor Data Str	ucture				
MUST	RFC 2328 Compatibility The initialize(I), more (M) and master(MS) bits, Options field, and DD sequence number contained in the last Database Description packet received from the neighbor are used to determine whether the next Database Description packet received from the neighbor is a duplicate.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-43.3	NEGATIVE RFC 2328, s10 p81 The neighbor Data Structure						
MUST	RFC 2328 Compatibility The initialize(I), more (M) and master(MS) bits, Options field, and DD sequence number contained in the last Database Description packet received from the neighbor are used to determine whether the next Database Description packet received from the neighbor is a duplicate.						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release	Release	Release	Release	Release	Master
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16
ANVL-OSPFV3-43.4	RFC 2328, s12.2 p122 The link state database					
MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the router originates a newer instance of one of its self-originated LSAs. (This test checks for Router-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-43.5	RFC 2328, s12.2 p12	22 The link state datab	pase			
MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the router originates a newer instance of one of its self-originated LSAs. (This test checks for Network-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-43.6	RFC 2328, s12.2 p12	22 The link state datal	pase			
MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the router originates a newer instance of one of its self-originated LSAs. (This test checks for Inter-Area-Prefix-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-43.7	RFC 2328, s12.2 p12	22 The link state datab	pase			
MUST	RFC 2328 Compatibility An LSA is deleted from a router's database when the router originates a newer instance of one of its self-originated LSAs. (This test checks for Inter-Area-Router-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass
ANVL-OSPFV3-43.8	RFC 2328, s12.2 p12	22 The link state datab	pase			
MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the LSA ages out and is flushed from the routing domain. (This test is for Router-LSA)					
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:
	pass	pass	pass	pass	pass	pass
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:
	pass	pass	pass	10.3: pass	10.3: pass	pass





	Release	Release	Release	Release	Release	Master	
	2.0	3.0	2.0.2	3.0.2	3.0.3	2018-01-16	
ANVL-OSPFV3-43.9	RFC 2328, s12.2 p122 The link state database						
MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the LSA ages out and is flushed from the routing domain. (This test is for Network-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 2328, s12.2 p12	22 The link state datab	oase				
43.10 MUST	RFC 2328 Compatibility An LSA is deleted from a router's database when the LSA ages out and is flushed from the routing domain. (This test is for Inter-Area-Prefix-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 2328, s12.2 p122 The link state database						
43.11 MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the LSA ages out and is flushed from the routing domain. (This test is for Inter-Area-Router-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	
ANVL-OSPFV3-	RFC 2328, s12.2 p122 The link state database						
43.12 MUST	RFC 2328 Compatibility An LSA is deleted from a router"s database when the LSA ages out and is flushed from the routing domain. (This test is for AS-External-LSA)						
	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	Ubuntu 16.04:	
	pass	pass	pass	pass	pass	pass	
	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD 10.3:	FreeBSD	FreeBSD	FreeBSD 10.3:	
	pass	pass	pass	10.3: pass	10.3: pass	pass	





	Release 2.0	Release 3.0	Release 2.0.2	Release 3.0.2	Release 3.0.3	Master 2018-01-16	
ANVL-OSPFV3-	RFC 2328, sA.3.2 p194 The Hello packet						
43.13 MUST	RFC 2328 Compatibility If Router Priority set to 0, the router will be ineligible to become Backup Designated Router. (This test checks the case when router itself has Router Priority 0)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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-OSPFV3-	RFC 2328, sA.3.2 p1	94 The Hello packet					
43.14 MUST	RFC 2328 Compatibility If Router Priority set to 0, the router will be ineligible to become Backup Designated Router (This test checks the case when a neighbor has Router Priority 0)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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-OSPFV3-	RFC 2328, sA.3.2 p194 The Hello packet						
43.15 MUST	RFC 2328 Compatibility If Router Priority set to 0, the router will be ineligible to become Designated Router (This test checks the case when router itself has Router Priority 0)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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-OSPFV3- 43.16	RFC 2328, sA.3.2 p194 The Hello packet						
MUST	RFC 2328 Compatibility If Router Priority set to 0, the router will be ineligible to become Designated Router. (This test checks the case when a neighbor has Router Priority 0)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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	Master 2018-01-16	
ANVL-OSPFV3-	RFC 2328, sA.3.2 p194 The Hello packet						
43.17 MUST	RFC 2328 Compatibility If Router Priority set to 0, the router will be ineligible to become Designated Router. (This test checks the case when two router has Router Priority 0)						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	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-OSPFV3-	RFC 2328, sA.3.6 p2	01 The Link State Acl	knowledgment packet				
43.18 MUST	RFC 2328 Compatibility A Link State Acknowledgment packet is sent either to the multicast address AllSPFRouters, to the multicast address AllDRouters, or as a unicast (NOTE: This test is for multicast address AllSPFRouters)						
	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	
ANVL-OSPFV3-	RFC 2328, sA.3.6 p201 The Link State Acknowledgment packet						
43.19 MUST	RFC 2328 Compatibility A Link State Acknowledgment packet is sent either to the multicast address AllSPFRouters, to the multicast address AllDRouters, or as a unicast (NOTE: This test is for multicast address AllDRouters)						
	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	
ANVL-OSPFV3-	RFC 2328, sA.3.6 p201 The Link State Acknowledgment packet						
43.20 MUST	RFC 2328 Compatibility A Link State Acknowledgment packet is sent either to the multicast address AllSPFRouters, to the multicast address AllDRouters, or as a unicast (NOTE: This test is for unicast 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	
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	