

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
Type	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR
Commit ID	ab0c954	ab0c954	16e3267	16e3267	5753eb9	5753eb9	821cf0d	821cf0d	1a664f5	1a664f5	3e71b5d	3e71b5d
Commit Date	2017-01-16	2017-01-16	2017-01-19	2017-01-19	2017-02-23	2017-02-23	2017-02-24	2017-02-24	2017-03-07	2017-03-07	2017-04-02	2017-04-02
ANVL- ISISV6- 1.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.5 p49 Level 1 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU Level 1 LAN IS to IS hello PDU must have 1. Intra-domain Routing Protocol Discriminator = 0x83 2. PDU type = 15 3. Version/Protocol ID extension = 1 4. Version = 1											
ANVL- ISISV6- 1.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.5 p49 Level 1 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU Bit 6-8 of PDU Type (5th octet), Reserved (7th octet), bit 3-8 of Reserved/Circuit Type (9th octet) and 8th bit of Priority are reserved which are always set to zero in Level 1 LAN IS to IS hello PDU.											
ANVL- ISISV6- 1.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.5 p49 Level 1 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU The valid ID Length field shall take any one of these following values: 1. An Integer between 1 and 8, inclusive, indicating an ID field of the corresponding length 2. The Value zero, which indicates a six octet ID, field length 3. The Value 255, which means a null ID field (i.e., zero length)											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 1.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.5 p49-50 Level 1 LAN IS to IS hello PDU											
	Level 1 LAN IS to IS Hello PDU In a LAN Level 1 IIH the Circuit Type must be either 1 or 3											
ANVL- ISISV6- 1.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.5 p50 Level 1 LAN IS to IS hello PDU RFC 1195 s5.3.1 p37-38 Level 1 LAN IS to IS hello PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID											
	Level 1 LAN IS to IS Hello PDU The valid Codes that must be present in the VARIABLE LENGTH FIELD of Level 1 LAN IS to IS hello PDU are: Area Address Authentication Information Protocols Supported IPv6 Interface Address											
ANVL- ISISV6- 1.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195 s4.4 p32 Maintaining Router Adjacencies s5.2 p34 Overview of IP-specific Information for IS-IS											
	Level 1 LAN IS to IS Hello PDU The Protocol supported field must be present in all IS-IS Hello Packets send by IP-only routers											
ANVL- ISISV6- 1.7	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	NEGATIVE : RFC 1195 s4.4 p32 Maintaining Router Adjacencies											
	Level 1 LAN IS to IS Hello PDU The Protocol Supported field must be present in all IS-IS Hello Packets send by IP-only routers											

RFC Compliance Test Report

ISISV6 Results

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ANVL- ISISV6- 1.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.6 p51 Level 2 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU Level 2 LAN IS to IS hello PDU must have 1. Intra-domain Routing Protocol Discriminator = 0x83 2. PDU type = 16 3. Version/Protocol ID extension = 1 4. Version = 1											
ANVL- ISISV6- 1.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.6 p51 Level 2 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU Bit 6-8 of PDU Type (5th octet), Reserved (7th octet), bit 3-8 of Reserved/Circuit Type (9th octet) and 8th bit of Priority are reserved which are always set to zero in Level 2 LAN IS to IS hello PDU.											
ANVL- ISISV6- 1.10	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.6 p51 Level 2 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU The valid ID Length field shall take any one of these following values: 1. An Integer between 1 and 8, inclusive, indicating an ID field of the corresponding length 2. The Value zero, which indicates a six octet ID, field length 3. The Value 255, which means a null ID field (i.e., zero length)											
ANVL- ISISV6- 1.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E)s9.6 p51 Level 2 LAN IS to IS hello PDU Level 1 LAN IS to IS Hello PDU In a LAN Level 2 IIH the Circuit Type must be either 2 or 3											

RFC Compliance Test Report

ISISV6 Results

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ANVL- ISISV6- 1.12 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
ISO/IEC 10589:1992(E)s9.6 p51-52 Level 2 LAN IS to IS hello PDU RFC 1195 s5.3.2 p38-39 Level 2 LAN IS to IS hello PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID												
Level 1 LAN IS to IS Hello PDU The valid Codes that must be present in the VARIABLE LENGTH FIELD of Level 2 LAN IS to IS hello PDU are: Area Address Protocols Supported IPv6 Interface Address												
ANVL- ISISV6- 1.13 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RFC 1195 s4.4 p32 Maintaining Router Adjacencies s5.2 p34 Overview of IP-specific Information for IS-IS												
Level 1 LAN IS to IS Hello PDU The Protocol supported field must be present in all IS-IS Hello Packets send by IP-only routers												
ANVL- ISISV6- 1.14 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
NEGATIVE : RFC 1195 s4.4 p32 Maintaining Router Adjacencies												
Level 1 LAN IS to IS Hello PDU The Protocol Supported field must be present in all IS-IS Hello Packets send by IP-only routers												
ANVL- ISISV6- 1.19 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RFC 1195 s3.1 p15 Exchange of Routing information RFC 5308 s4 p4 IPv6 NLPID												
Level 1 LAN IS to IS Hello PDU IP capable routers need to know what network layer protocols are supported by other routers in their area												

RFC Compliance Test Report

ISISV6 Results

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ANVL- ISISV6- 1.20 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV												
Level 1 LAN IS to IS Hello PDU Each interface corresponding to the SNPA over which is transmitted can have maximum of 15 IPv6 addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.												
ANVL- ISISV6- 1.21 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RFC 1195 s3.1 p15 Exchange of Routing information RFC 5308 s4 p4 IPv6 NLPID												
Level 1 LAN IS to IS Hello PDU IP capable routers need to know what network layer protocols are supported by other routers in their area												
ANVL- ISISV6- 1.22 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV												
Level 1 LAN IS to IS Hello PDU Each interface corresponding to the SNPA over which is transmitted can have maximum of 15 IPv6 addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.												
ANVL- ISISV6- 1.23 MUST	unpredict	unpredict	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
NEGATIVE :RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV												
Level 1 LAN IS to IS Hello PDU Each Interface corresponding to the SNPA over which a L1 LAN IIH PDU is transmitted can have a maximum of 15 IPv6 Addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.												

RFC Compliance Test Report

ISISV6 Results



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ANVL- ISISV6- 1.24 MUST	unpredict	FAIL	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
	NEGATIVE :RFC 1195 s4.2 p31 Multiple IP Addresses per Interface RFC 5308 s3 p3 IPv6 Interface Address TLV											
	Level 1 LAN IS to IS Hello PDU Each Interface corresponding to the SNPA over which a L1 LAN IIH PDU is transmitted can have a maximum of 15 IPv6 Addresses We necessarily modify the contents to be 0-15 16 octet IPv6 interface addresses instead of 0-63 4 octet IPv4 interface address.											
ANVL- ISISV6- 1.25 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 5308 s3 p4 IPv6 Interface Address TLV											
	Level 1 LAN IS to IS Hello PDU For LSPs the "Interfaces Address" TLVs MUST contain only the non-link-local IPv6 addresses assigned to the IS.											
ANVL- ISISV6- 1.26 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC 5308 s3 p4 IPv6 Interface Address TLV											
	Level 1 LAN IS to IS Hello PDU For LSPs the "Interfaces Address" TLVs MUST contain only the non-link-local IPv6 addresses assigned to the IS.											
ANVL- ISISV6- 2.1 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	ISO/IEC 10589:1992(E) s9.8 p54 Level 1 LSPDU											
	Level 1 LSPDU Test that the level 1 LSP must have Intradomain Routing Protocol Discriminator = 0x83, PDU Type = 18, Version/Protocol ID extension (2nd octet) = 1 and Version (6th octet) = 1 in the Header											
ANVL- ISISV6- 2.2 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	ISO/IEC 10589:1992(E) s9.8 p54 Level 1 Link State PDU											
	Level 1 LSPDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 1 Link State PDU											

RFC Compliance Test Report

ISISV6 Results

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ANVL- ISISV6- 2.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.8 p54-55 Level 1 Link State PDU Level 1 LSPDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)											
ANVL- ISISV6- 2.4	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s9.8 p54-55 Level 1 Link State PDU RFC 1195 s5.3.4, p40-43 Level 1 Link State PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID Level 1 LSPDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 link state PDU are: Area Addresses Intermediate system Neighbors Protocols Supported IPv6 Reachability Information											
ANVL- ISISV6- 2.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.9 p57 Level 2 LSPDU Level 1 LSPDU Test that the level 2 LSP must have Intradomain Routing Protocol Discriminator =0x83, PDU Type=20,Version/Protocol ID extension(3rd octet) = 1 and Version (6th octet) = 1 in the Header											

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ANVL- ISISV6- 2.12	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.9 p57 Level 2 Link State PDU											
	Level 1 LSPDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 2 Link State PDU											
ANVL- ISISV6- 2.13	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.9 p57 Level 2 Link State PDU											
	Level 1 LSPDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)											
ANVL- ISISV6- 2.14	pass	pass	pass	pass	pass	unpredict	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.9 p57-59 Level 2 Link State PDU RFC 1195 s5.3.5,p43-48 Level 2 Link State PDU RFC 5308 p2-4 s2 IPv6 Reachability TLV s3 IPv6 Interface Address TLV s4 IPv6 NLPID											
	Level 1 LSPDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 2 link state PDU are: Area Addresses Intermediate system Neighbors Protocols Supported IPv6 Reachability Information											
ANVL- ISISV6- 2.17	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195 S3.1 P15 Exchange of routing information											
	Level 1 LSPDU IS-IS requires that any codes in a received PDU that are not recognized are ignored and passed through unchanged											

RFC Compliance Test Report

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	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 2.18	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195 S3.1 P15 Exchange of routing information											
	Level 1 LSPDU IS-IS requires that any codes in a received PDU that are not recognized are ignored and passed through unchanged											
ANVL- ISISV6- 3.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.10 p60 Level 1 complete sequence numbers PDU											
	Level 1 Complete Sequence Numbers PDU Level 1 complete sequence number PDU must have Intra-domain Routing protocol Discriminator = 0x83, PDU Type = 24, Version/Protocol ID extension (3rd octet) = 1 and Version (6th octet) = 1 in the header											
ANVL- ISISV6- 3.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.10 p60 Level 1 Complete sequence number PDU											
	Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 1 complete sequence											
ANVL- ISISV6- 3.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.10 p57 Level 1 complete sequence numbers PDU											
	Level 1 Complete Sequence Numbers PDU The valid ID Length field in a Level 1 Complete Sequence Number PDU shall take any one of these following values: 1. An integer between 1 and 8, inclusive, indicating an ID field of corresponding length 2. The value zero, which indicates a six octet ID,field length 3. The value 255, which means a null ID field (i.e., zero length)											

RFC Compliance Test Report

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ANVL- ISISV6- 3.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.10 p60-61 Level 1 complete sequence numbers PDU RFC 1195 s5.3.6,p48-49 Level 1 complete sequence numbers PDU Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 complete sequence numbers PDU are: 1. LSP Entries 2. Authentication Information											
ANVL- ISISV6- 3.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.10 p61-62 Level 2 complete sequence numbers PDU Level 1 Complete Sequence Numbers PDU Level 2 complete sequence number PDU must have Intra-domain Routing protocol Discriminator = 0x83, PDU Type = 25, Version/Protocol ID extension (3rd octet) = 1 and Version (6th octet) = 1 in the header											
ANVL- ISISV6- 3.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.11 p62 Level 2 Complete sequence number PDU Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 2 complete sequence numbers PDU											
ANVL- ISISV6- 3.7	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC10589:1992(E) s9.11 p61-62 Level 2 complete sequence numbers PDU Level 1 Complete Sequence Numbers PDU The valid ID Length field in a Level 2 Complete Sequence Number PDU shall take any one of these following values: 1. An integer between 1 and 8, inclusive, indicating an ID field of corresponding length 2. The value zero, which indicates a six octet ID, field length 3. The value 255, which means a null ID field (i.e., zero length)											

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ANVL- ISISV6- 3.8 MUST	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
ISO/IEC 10589:1992(E) s9.11 p62 Level 2 complete sequence numbers PDU RFC 1195 s5.3.7,p49 Level 2 complete sequence numbers PDU Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 2 complete sequence numbers PDU are: 1. LSP Entries 2. Authentication Information												
ANVL- ISISV6- 3.9 MUST	pass	FAIL	unpredict	pass	pass	FAIL	pass	unpredict	unpredict	pass	pass	unpredict
ISO/IEC 10589(E) s9.12 p62-63 Level 1 partial sequence numbers PDU Level 1 Complete Sequence Numbers PDU Level 1 partial sequence number PDU must have Intra-domain Routing protocol Discriminator=0x83, PDU Type=26, Version/Protocol ID extension (3rd octet)=1 and Version (6th octet)=1 in the header												
ANVL- ISISV6- 3.10 MUST	pass	pass	unpredict	pass	pass	unpredict	pass	pass	pass	pass	pass	unpredict
ISO/IEC 10589:1992(E) s9.12 p63 Level 1 partial sequence number PDU Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 1 partial sequence numbers PDU												
ANVL- ISISV6- 3.11 MUST	pass	unpredict	pass	pass	pass	unpredict	pass	pass	unpredict	pass	pass	pass
ISO/IEC 10589:1992(E) s9.12 p63 Level 1 partial sequence number PDU Level 1 Complete Sequence Numbers PDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 , inclusive, indicating an ID field of coresponding length 2. The value zero, which indicates a six octet ID,field length 3. The value 255, which means a null ID field (i.e., zero length)												

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ANVL- ISISV6- 3.12	pass	pass	unpredict	pass	pass	pass	pass	pass	pass	pass	pass	unpredict
MUST	ISO/IEC 10589:1992(E) s9.12 p63 Level 1 partial sequence number PDU RFC 1195 s5.3.8,p49 Level 1 partial sequence number PDU Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 1 partial sequence numbers PDU are: 1. LSP Entries 2. Authentication Information											
ANVL- ISISV6- 3.13	pass	unpredict	unpredict	pass	pass	FAIL	pass	unpredict	unpredict	pass	pass	unpredict
MUST	ISO/IEC 10589(E) s9.12 p64-65 Level 2 partial sequence numbers PDU Level 1 Complete Sequence Numbers PDU Level 2 partial sequence number PDU must have Intra-domain Routing protocol Discriminator=0x83, PDU Type=27, Version/Protocol ID extension (3rd octet)=1 and Version (6th octet)=1 in the header											
ANVL- ISISV6- 3.14	pass	unpredict	unpredict	pass	pass	pass	pass	pass	unpredict	pass	pass	unpredict
MUST	ISO/IEC 10589:1992(E) s9.12 p64 Level 2 partial sequence number PDU Level 1 Complete Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 2 partial sequence numbers PDU											
ANVL- ISISV6- 3.15	pass	unpredict	unpredict	pass	pass	unpredict	pass	unpredict	pass	pass	pass	unpredict
MUST	ISO/IEC 10589:1992(E) s9.12 p64 Level 2 partial sequence number PDU Level 1 Complete Sequence Numbers PDU The valid ID Length field shall take any one of these following values: 1. An integer between 1 and 8 ,inclusive,indicating an ID field of corresponding length 2. The value zero, which indicates a six octet ID,field length 3. The value 255,which means anull ID field(ie zero length)											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 3.16	pass	unpredict	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s9.12 p64 Level 2 partial sequence number PDU RFC 1195 s5.3.9,p49 Level 2 partial sequence number PDU Level 1 Complete Sequence Numbers PDU The valid codes that must be present in the VARIABLE LENGTH FIELD of level 2 partial sequence numbers PDU are: 1. LSP Entries 2. Authentication Information											
ANVL- ISISV6- 4.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s7.2.4, p14, Links Links IS discover neighbours and forms adjacencies by exchanging ISIS Hello PDUs.											
ANVL- ISISV6- 4.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195, s5.1, p33, Overview of ISIS PDUs Links Hello packets are used to initialize and maintain adjacencies between neighbouring ISs.											
ANVL- ISISV6- 4.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Links An L1 IS shall transmit only L1 LAN IIHs.											
ANVL- ISISV6- 4.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Links An L1 IIH sent by L1 IS should contain the manualAreaAddresses and LAN Addresses of L1 IS adjacencies.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 4.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Links An L1 IS shall transmit L1 LAN IIHs to the multi-destination address AllL1ISs.											
ANVL- ISISV6- 4.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Links L1 ISs shall listen on the multi-destination address AllL1ISs.											
ANVL- ISISV6- 4.7	pass	FAIL	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Links L1 ISs shall reject any L1 LAN IIH that doesn't have the destination as AllL1ISs.											
ANVL- ISISV6- 4.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E), s8.4.2.1, p44, IIH PDU acceptance tests Links If the IDLength of the L1 IIH is not equal to the value of the IS routingDomainIDLength, it should be discarded.											
ANVL- ISISV6- 4.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 LAN IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing Links If the received L1 IIH's areaAddresses do not match any of the manualAreaAddresses of the L1 IS, it should reject the adjacency.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 4.10	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing Links If the received L1 IIHs areaAddress field matches any of the values from the manualAreaAddresses of the L1 IS, it shall accept the adjacency.											
ANVL- ISISV6- 4.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs ISO/IEC 10589:1992(E), s8.2.4.2, p38, IIH PDU Processing Links If the received L1 IIHs maximumAreaAddresses value is equal to the ISs maximumAreaAddresses, accept the PDU.											
ANVL- ISISV6- 4.12	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.2, p45, Receipt of L1 IIH PDUs Links If the L1 ISs maximumAreaAddresses is not 3, then it will discard all L1 IIH with non matching maximumAreaAddresses value.											
ANVL- ISISV6- 4.14	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies Links When an L1 IS receives an L1 LAN IIH from another IS (R), then the next L1 IIH generated by the IS will include R.											
ANVL- ISISV6- 4.15	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies Links When an L1 IS receives an L1 LAN IIH with its own entry, then it shall create an adjacency.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 4.16	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.2, p45, New Adjacencies											
	Links If a neighbour is not heard within the Holding Time, the L1 IS shall purge it from the database.											
ANVL- ISISV6- 5.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s7.2.4, p14, Links											
	Broadcast Subnetwork IIH PDUs IS discover neighbours and forms adjacencies by exchanging ISIS Hello PDUs.											
ANVL- ISISV6- 5.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195, s5.1, p33, Overview of ISIS PDUs											
	Broadcast Subnetwork IIH PDUs Hello packets are used to initialize and maintain adjacencies between neighbouring ISs.											
ANVL- ISISV6- 5.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	Broadcast Subnetwork IIH PDUs An L2 IS shall transmit only L2 LAN IIHs.											
ANVL- ISISV6- 5.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	Broadcast Subnetwork IIH PDUs An L2 IIH sent by L2 IS should contain the manual Area Addresses and LAN Addresses of L2 IS adjacencies.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 5.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Broadcast Subnetwork IIH PDUs An L2 IS shall transmit L2 LAN IIHs to the multi-destination address AllL2ISs.											
ANVL- ISISV6- 5.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Broadcast Subnetwork IIH PDUs L2 ISs shall listen on the multi-destination address AllL2ISs.											
ANVL- ISISV6- 5.7	pass	FAIL	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs Broadcast Subnetwork IIH PDUs L2 ISs shall reject any L2 LAN IIH that doesn't have the destination as AllL2ISs.											
ANVL- ISISV6- 5.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E), s8.4.2.1, p44, IIH PDU acceptance tests Broadcast Subnetwork IIH PDUs If the IDLength of the L2 IIH is not equal to the value of the ISs routingDomainIDLength, it should be discarded.											
ANVL- ISISV6- 5.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies Broadcast Subnetwork IIH PDUs When an L2 IS receives an L2 LAN IIH from another IS (R), then the next L2 IIH generated by the IS will include R.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 5.10	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.1, p45, New Adjacencies											
	Broadcast Subnetwork IIH PDUs When an L2 IS receives an L2 LAN IIH with its own entry, then it shall create an adjacency.											
ANVL- ISISV6- 5.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2.5.2, p45, New Adjacencies											
	Broadcast Subnetwork IIH PDUs If a neighbour is not heard within the Holding Time, the L2 IS shall purge it from the database.											
ANVL- ISISV6- 6.1	pass	pass	pass	pass	pass	pass	pass	pass	unpredict	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	More Broadcast Subnetwork IIH PDUs An L1/L2 IS shall create separate adjacencies on receipt of L1 and L2 LAN IIH.											
ANVL- ISISV6- 6.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	More Broadcast Subnetwork IIH PDUs An L1/L2 IS shall transmit both L1 and L2 LAN IIHs.											
ANVL- ISISV6- 6.3	unpredict	pass	pass	pass	pass	pass	unpredict	unpredict	unpredict	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	More Broadcast Subnetwork IIH PDUs An L1/L2 IS shall listen on the multi-destination address AllL1ISs and AllL2ISs for L1 and L2 LAN IIHs respectively.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 6.4	pass	FAIL	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E), s8.4.2, p44, Broadcast subnetwork IIH PDUs											
	More Broadcast Subnetwork IIH PDUs An L1/L2 IS shall reject any LAN IIH that doesn't have the destination as AllL1ISs or AllL2ISs.											
ANVL- ISISV6- 7.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH											
ANVL- ISISV6- 7.2	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH											
ANVL- ISISV6- 7.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH and the MAC address											
ANVL- ISISV6- 7.4	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Broadcast Subnetwork Election process of level 1 designated IS is done by verifying priority field in the IIH and the MAC address											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 7.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.5 p46 LAN designated IS											
	Broadcast Subnetwork An L1 IS becomes an L1 Designated IS, it shall transmit L1 pseudonode LSP											
ANVL- ISISV6- 7.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.5 p47 LAN designated ISs											
	Broadcast Subnetwork An L1 IS shall transmit L1 LAN IIHs with the LAN ID field set to the LAN ID of the designated L1 IS											
ANVL- ISISV6- 8.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH											
ANVL- ISISV6- 8.2	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH											
ANVL- ISISV6- 8.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH and the MAC address											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 8.4	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.2.3 p14 Broadcast subnetwork RFC 1195 s4.3 p31 Designated routers and Pseudonodes											
	Designated Routers and Pseudonodes Election process of level 2 designated IS is done by verifying priority field in the IIH and the MAC address											
ANVL- ISISV6- 8.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.5 p46 LAN designated IS											
	Designated Routers and Pseudonodes An L2 IS becomes an L2 Designated IS, it shall transmit L2 pseudonode LSP											
ANVL- ISISV6- 8.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.5 p47 LAN designated ISs											
	Designated Routers and Pseudonodes An L2 IS shall transmit L2 LAN IIHs with the LAN ID field set to the LAN ID of the designated L2 IS											
ANVL- ISISV6- 9.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p44 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH doesn't contain the authentication information field, the L1 IS shall discard the PDU											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 9.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.4 p46 Transmission of LAN IIH PDUs RFC 1195 s3.9 p25 Authentication											
	Acceptance Tests An L1 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L1 LAN IIH PDU if authentication is enabled on the circuit											
ANVL- ISISV6- 9.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH contains authentication information of type Password, and if this Password matches any of the circuitReceivePasswords, then the L1 IS accepts the PDU											
ANVL- ISISV6- 9.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH contains authentication information of type Password, and if this Password does not match any of the circuitReceivePasswords, then the L1 IS discards the PDU											
ANVL- ISISV6- 9.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Acceptance Tests If authentication is enabled on a circuit and the received L1 LAN IIH contains authentication information of a type that the IS doesn't implement, then the IS discards the PDU											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 10.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH doesn't contain the authentication information field, the L2 IS shall discard the PDU											
ANVL- ISISV6- 10.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.4 p46 Transmission of LAN IIH PDUs RFC 1195 s3.9 p25 Authentication											
	Authentication An L2 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L2 LAN IIH PDU if authentication is enabled on the circuit											
ANVL- ISISV6- 10.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of type Password, and if this Password matches any of the circuitReceivePasswords, then the L2 IS accepts the PDU											
ANVL- ISISV6- 10.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of type Password, and if this Password does not match any of the circuitReceivePasswords, then the L2 IS discards the PDU											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 10.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication											
	Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of a type that the IS doesn't implement, then the IS discards the PDU											
ANVL- ISISV6- 11.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.2 p19-p20 Generation of local link state information											
	Generation of Local Link State Information The update process is responsible for generating Link State PDUs under the following circumstances. - Upon Timer Expiration (LSPGenerationTimer)											
ANVL- ISISV6- 11.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.5 p21 Periodic LSP Generation											
	Generation of Local Link State Information The Intermediate System shall regenerate every LSP at intervals of atmost maximum LSPGeneration interval											
ANVL- ISISV6- 11.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.5 p21 Periodic LSP Generation											
	Generation of Local Link State Information The Intermediate System shall regenerate every LSP at intervals of atmost maximum LSPGeneration interval											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 11.4	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
SHOULD	ISO/IEC 10589:1992(E) s7.3.16.1 p29 Sequence number Generation of Local Link State Information When the sequence number reaches the Sequence Modulus, the routing module should be disabled for a period of at least MaxAge + ZeroAgeLifetime											
ANVL- ISISV6- 11.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.16.3-4 p29 Remaining LifeTime Field & LSP Expiration synchronization Generation of Local Link State Information If the Remaining LifeTime field of the received LSP is zero the system shall purge that LSP from its database and synchronizes by flooding an expired LSP											
ANVL- ISISV6- 11.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.16.3-4 p29 Remaining LifeTime Field & LSP Expiration synchronization Generation of Local Link State Information If the Remaining LifeTime field of the received LSP is zero the system shall purge that LSP from its database and synchronizes by flooding an expired LSP											
ANVL- ISISV6- 11.7	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.2 p19-p20 Generation of local link state information Generation of Local Link State Information The update process is responsible for generating Link State PDUs under the following circumstances. - Upon Timer Expiration (LSPGenerationTimer)											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 11.8	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
SHOULD	ISO/IEC 10589:1992(E) s7.3.16.1 p29 Sequence number Generation of Local Link State Information When the sequence number reaches the Sequence Modulus, the routing module should be disabled for a period of at least MaxAge + ZeroAgeLifetime											
ANVL- ISISV6- 17.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.4 P21 Multiple LSPs Multiple LSPs If an LSP becomes empty because of all the adjacencies reported in that LSP no longer exists, an IS may purge that LSP instead of re-issuing it											
ANVL- ISISV6- 17.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.8.1 p15 Computing routes through overloaded Intermediate systems Multiple LSPs The Decision Process shall not utilise a link to an Intermediate system neighbour from an IS whose LSPs have the LSP Data-base Overload indication set.											
ANVL- ISISV6- 17.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.4 P21 Multiple LSPs Multiple LSPs If an LSP becomes empty because of all the adjacencies reported in that LSP no longer exists, an IS may purge that LSP instead of re-issuing it											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 17.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.2.8.1 p15 Computing routes through overloaded Intermediate systems											
	Multiple LSPs The Decision Process shall not utilise a link to an Intermediate system neighbour from an IS whose LSPs have the LSP Data-base Overload indication set.											
ANVL- ISISV6- 17.13	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	RFC 5308, s2, p2 IPv6 Reachability TLV											
	Multiple LSPs The external bit in IPv6 Reachability TLV must be set to 0 to indicate internal metric											
ANVL- ISISV6- 17.14	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 5308, s2, p2 IPv6 Reachability TLV											
	Multiple LSPs The external bit in IPv6 Reachability TLV must be set to 0 to indicate internal metric											
ANVL- ISISV6- 17.15	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 5308, s2, p3 IPv6 Reachability TLV											
	Multiple LSPs If a prefix is advertised with a metric larger than MAX_V6_PATH_METRIC (0xFE000000), this prefix MUST not be considered during the normal SPF computation.											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 18.1	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	unpredict	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) S7.2.5 P14 Multiple LSPs for the same system Propagation of LSPs The following information shall be taken only from LSP with LSP number zero and disregarded if the LSP number is non-zero 1. The setting of the LSP Database Overload bit 2. The value of the IS Type field 3. The Area Addresses option field											
ANVL- ISISV6- 18.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3 P19 Update process Propagation of LSPs The update process is responsible for generating and propagating Link State information reliably throughout the routing domain											
ANVL- ISISV6- 18.3	FAIL	unpredict	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) S7.3.2 P19-20 Generation of local link state " information Propagation of LSPs The update process is responsible for generating Link State PDUs under the following circumstances: - When notified by the subnetwork dependent functions of an adjacency database change											
ANVL- ISISV6- 18.4	unpredict	unpredict	pass	pass	unpredict	pass	pass	unpredict	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.8 P22 Generation of level 1 pseudonode LSPs Propagation of LSPs The Area Addresses option will not be present when an IS generates a level 1 Link State PDU on behalf of pseudonode											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 18.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.15.1 P24-25 Action on receipt of Link state PDU											
	Propagation of LSPs If this is a level 1 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded											
ANVL- ISISV6- 18.6	pass	pass	unpredict	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.14.1 p23 Propagation of LSPs											
	Propagation of LSPs Duplicate PDUs are detected and dropped											
ANVL- ISISV6- 18.7	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs											
	Propagation of LSPs Level 1 Link State PDUs shall be propagated on circuits, which have at least one Level 1 adjacency											
ANVL- ISISV6- 18.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s7.3.14.2, p24, Propagation of LSPs											
	Propagation of LSPs When propagating a L1 LSP on a broadcast subnetwork, the IS shall transmit to the multi-destination Address AllL1IS.											
ANVL- ISISV6- 18.9	pass	FAIL	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs											
	Propagation of LSPs When an Intermediate System receives a LSP older than the one stored in the database, the stored link state PDU needs to be sent on the link from which the older one was received											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 18.10	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.16.3 P29 Remaining Lifetime Field											
	Propagation of LSPs When the source generates a link state PDU, it shall set the Remaining Lifetime to MaxAge. Before transmitting a link state PDU to a neighbour, a system shall decrement the Remaining Lifetime											
ANVL- ISISV6- 18.12	pass	unpredict	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	RFC 1195 S3.1 P15 Exchange of routing information											
	Propagation of LSPs Level 1 routers need to know what IP address are reachable from each level 1 router in their area											
ANVL- ISISV6- 18.13	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195 S3.7 P24 IP-Only Operation											
	Propagation of LSPs Some of the VARIABLE LENGTH fields from IS-IS link packet must be omitted for IP only routers - The End System Neighbours entries are omitted - The Prefix Neighbours entries are omitted											
ANVL- ISISV6- 19.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.2.5 P14 Multiple LSPs for the same system											
	Multiple LSPs for the Same System The following information shall be taken only from LSP with LSP number zero and disregarded if the LSP number is non-zero 1. The setting of the LSP Database Overload bit 2. The value of the IS Type field 3. The Area Addresses option field											

RFC Compliance Test Report

ISISV6 Results



	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 19.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3 P19 Update process Multiple LSPs for the Same System The update process is responsible for generating and propagating Link State information reliably throughout the routing domain											
ANVL- ISISV6- 19.3	pass	pass	pass	pass	pass	unpredict	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.2 P19-20 Generation of local link state " information Multiple LSPs for the Same System The update process is responsible for generating Link State PDUs under the following circumstances: - When notified by the subnetwork dependent functions of an adjacency database change											
ANVL- ISISV6- 19.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.8 P22 Generation of level 2 pseudonode LSPs Multiple LSPs for the Same System The Area Addresses option will not be present when an IS generates a level 2 Link State PDU on behalf of pseudonode											
ANVL- ISISV6- 19.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.15 P24-25 Action on receipt of Link state PDU Multiple LSPs for the Same System If this is a level 2 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded											
ANVL- ISISV6- 19.6	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.14.1 p23 Propagation of LSPs Multiple LSPs for the Same System Duplicate PDUs are detected and dropped											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 19.7	pass	unpredict	pass	pass	pass	pass	pass	unpredict	unpredict	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs Multiple LSPs for the Same System Level 2 Link State PDUs shall be propagated on circuits, which have at least one Level 2 adjacency											
ANVL- ISISV6- 19.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s7.3.14.2, p24, Propagation of LSPs Multiple LSPs for the Same System When propagating a L2 LSP on a broadcast subnetwork, the IS shall transmit to the multi-destination Address AllL2IS.											
ANVL- ISISV6- 19.9	pass	FAIL	FAIL	pass	pass	FAIL	pass	unpredict	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.14.2 p24 Propagation of LSPs Multiple LSPs for the Same System When an Intermediate System receives a LSP older than the one stored in the database, the stored link state PDU needs to be sent on the link form which the older one was received											
ANVL- ISISV6- 19.10	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.15.1 p24 Action on receipt of a link state PDU Multiple LSPs for the Same System If the ID Length of the PDU is not equal to the value of the ISs routingDomainISLength, the PDU shall be discarded											
ANVL- ISISV6- 19.11	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) S7.3.16.3 P29 Remaining Lifetime Field Multiple LSPs for the Same System When the source generates a link state PDU, it shall set the Remaining Lifetime to MaxAge. Before transmitting a link state PDU to a neighbour, a system shall decrement the Remaining Lifetime											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 19.13	FAIL	unpredict	FAIL	FAIL	FAIL	unpredict	FAIL	unpredict	unpredict	FAIL	FAIL	unpredict
MUST	RFC 1195 S3.2 P17 Exchange of routing information											
	Multiple LSPs for the Same System Level 2 routers need to know what IP address are reachable from each level 2 router in their area											
ANVL- ISISV6- 19.14	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC 1195 S3.7 P25 IP-Only Operation											
	Multiple LSPs for the Same System Some of the VARIABLE LENGTH fields from IS-IS link packet must be omitted for IP only routers - The End System Neighbours entries are omitted - The Prefix Neighbours entries are omitted											
ANVL- ISISV6- 20.1	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.16.1 p28 sequence numbers											
	Sequence Numbers When a system initializes, it shall start with sequence number with 1 for its own Link State PDUs:											
ANVL- ISISV6- 20.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E) s7.3.16.1 p28 sequence numbers											
	Sequence Numbers The sequence number of any actually generated Link State PDU should not be zero											
ANVL- ISISV6- 20.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.16.1 p29 sequence numbers											
	Sequence Numbers Update sequence number depending on the sequence number received from system in the domain											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 20.4	pass	unpredict	FAIL	pass	pass	FAIL	pass	FAIL	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.16.2 p29 LSP confusion Sequence Numbers If the sequence numbers match, but checksums do not and the LSP is not generated by the local system, then store the LSP with zero Remaining Lifetime, and flood the LSP											
ANVL- ISISV6- 21.1	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.16.1 p28 sequence numbers LSP Confusion When a system initializes, it shall start with sequence number with 1 for its own Link State PDUs											
ANVL- ISISV6- 21.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
SHOULD	ISO/IEC 10589:1992(E) s7.3.16.1 p29 sequence numbers LSP Confusion The sequence number of any actually generated Link State PDU should not be zero:											
ANVL- ISISV6- 21.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.16.1 p29 sequence numbers LSP Confusion Update sequence number depending on the sequence number received from system in the domain											
ANVL- ISISV6- 21.4	pass	unpredict	FAIL	pass	pass	FAIL	pass	unpredict	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E) s7.3.16.2 p29 LSP confusion LSP Confusion If the sequence numbers match, but checksums do not and the LSP is not generated by the local system, then store the LSP with zero Remaining Lifetime, and flood the LSP											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 22.3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E), s7.3.17, p30, Making the update reliable Making the Update Reliable I On broadcast links, Designated Intermediate System shall periodically multicast Complete Sequence Number Packet instead of explicit acknowledgement for each Link State Packet that it received											
ANVL- ISISV6- 22.4	pass	unpredict	FAIL	pass	pass	FAIL	pass	unpredict	FAIL	pass	pass	FAIL
MUST	ISO/IEC 10589:1992(E), s7.3.17, p30, Making the update reliable Making the Update Reliable I On broadcast links, Designated Intermediate System shall periodically multicast Complete Sequence Number Packet instead of explicit acknowledgement for each Link State Packet that it received											
ANVL- ISISV6- 24.1	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.19.1 p31 Entering the waiting state Entering the Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered											
ANVL- ISISV6- 24.2	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	ISO/IEC 10589:1992(E) s7.3.19.1 p31 Entering the waiting state Entering the Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered											
ANVL- ISISV6- 25.2	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
SHOULD	RFC3719 Section 2.1 Page 3 " MaxAge" ISISUpdate - RFC 3719 MaxAge SHOULD exceed maximumLSPGenerationInterval by atleast 300 seconds Note: Verify the RemainingLifeTime of the Packet											

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3	
ANVL- ISISV6- 25.3	unpredict	pass	pass	pass	pass	pass	pass	pass	pass	pass	FAIL	pass	unpredict
	RFC3719 Section 2.2 Page 4 " ISISv6HoldingMultiplier"												
	ISISUpdate - RFC 3719 An implementation MAY allow ISISv6HoldingMultiplier to be configurable.												
ANVL- ISISV6- 25.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC3719 Section 3.1 Page 4 " ID Length"												
	ISISUpdate - RFC 3719 An implementation MUST use an ID Length of 6.												
ANVL- ISISV6- 25.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC3719 Section 3.1 Page 4 " ID Length"												
	ISISUpdate - RFC 3719 If a router encounters a PDU with an ID Length different from 0 or 6, section 7.3.15.a.2 dictates that it MUST discard the PDU												
ANVL- ISISV6- 25.6	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
	RFC3719 Section 3.2 Page 5 "maximumAreaAddresses"												
	ISISUpdate - RFC 3719 An implementation SHOULD use the value 3.												
ANVL- ISISV6- 25.7	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
	RFC3719 Section 3.2 Page 5 " maximumAreaAddresses"												
	ISISUpdate - RFC 3719 If a router receives a PDU with maximumAreaAddresses that is not 0 or 3, it MUST discard the PDU, as described in section 7.3.15.a.3												

RFC Compliance Test Report

ISISV6 Results

	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 25.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.3 Page 5 " Protocol Version"											
	ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version field											
ANVL- ISISV6- 25.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.3 Page 5 " Protocol Version"											
	ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field											
ANVL- ISISV6- 25.23	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 11 Page 11 "Doppelganger LSPs"											
	ISISUpdate - RFC 3719 A complete set of CSNPs is a set whose Start LSPID and End LSPID ranges cover the complete possible range of LSPIDs. (i.e., there is no possible LSPID value which does not appear within the range of one of the CSNPs in the set).											
ANVL- ISISV6- 26.1	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	RFC1195, s3.2, p17 Hierarchical Abbreviation of IP Reachability Information											
	Hierarchical Abbreviation of IP Reachability Information Any address obtained from a level 1 LSP which is NOT superseded by the manually configured information is included in the level 2 LSPs											

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	Master 2017-01-16 --- Ubuntu 16.04	Master 2017-01-16 --- FreeBSD 10.3	Stable 2.0-rc1 --- FreeBSD 10.3	Stable 2.0-rc1 --- Ubuntu 16.04	Stable 2.0-rc2 --- Ubuntu 16.04	Stable 2.0-rc2 --- FreeBSD 10.3	Master 2017-02-24 --- Ubuntu 16.04	Master 2017-02-24 --- FreeBSD 10.3	Master 2017-03-07 --- FreeBSD 10.3	Master 2017-03-07 --- Ubuntu 16.04	Release 2.0 --- Ubuntu 16.04	Release 2.0 --- FreeBSD 10.3
ANVL- ISISV6- 26.2	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	RFC1195, s3.2, p17 Hierarchical Abbreviation of IP Reachability Information											
	<p>Hierarchical Abbreviation of IP Reachability Information</p> <p>Any address obtained from a level 1 LSP which is NOT superceded by the manually configured information is included in the level 2 LSPs</p> <p>(Note: This test checks whether the address is not included when it is superceded)</p>											
ANVL- ISISV6- 26.3	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
MUST	RFC 5308, s2, p2 IPv6 Reachability TLV											
	<p>Hierarchical Abbreviation of IP Reachability Information</p> <p>If a prefix is redistributed from a higher level to a lower level (e.g., Level 2 to Level 1), the up/down bit is set to 1.</p>											
ANVL- ISISV6- 28.2	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
SHOULD	RFC3719 Section 2.1 Page 3 " MaxAge"											
	<p>ISISUpdate - RFC 3719 Part 2</p> <p>MaxAge SHOULD exceed maximumLSPGenerationInterval by atleast 300 seconds</p> <p>Note: Verify the RemainingLifeTime of the Packet</p>											
ANVL- ISISV6- 28.3	pass	unpredict	unpredict	unpredict	unpredict	pass	unpredict	unpredict	unpredict	unpredict	unpredict	unpredict
MAY	RFC3719 Section 2.2 Page 4 " ISISv6HoldingMultiplier"											
	<p>ISISUpdate - RFC 3719 Part 2</p> <p>An implementation MAY allow ISISv6HoldingMultiplier to be configurable.</p>											
ANVL- ISISV6- 28.4	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.1 Page 4 " ID Length"											
	<p>ISISUpdate - RFC 3719 Part 2</p> <p>An implementation MUST use an ID Length of 6.</p>											

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ANVL- ISISV6- 28.5	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.1 Page 4 " ID Length"											
	ISISUpdate - RFC 3719 Part 2 If a router encounters a PDU with an ID Length different from 0 or 6, section 7.3.15.a.2 dictates that it MUST discard the PDU											
ANVL- ISISV6- 28.8	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.3 Page 5 " Protocol Version"											
	ISISUpdate - RFC 3719 Part 2 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version field											
ANVL- ISISV6- 28.9	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 3.3 Page 5 " Protocol Version"											
	ISISUpdate - RFC 3719 Part 2 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field											
ANVL- ISISV6- 28.23	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
MUST	RFC3719 Section 11 Page 11 "Doppelganger LSPs"											
	ISISUpdate - RFC 3719 Part 2 A complete set of CSNPs is a set whose Start LSPID and End LSPID ranges cover the complete possible range of LSPIDs. (i.e., there is no possible LSPID value which does not appear within the range of one of the CSNPs in the set).											