

| | | | i | 1 | T | 1 | i | 1 | |
|---------------|---|--|-----------------------|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|
| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 |
| Туре | FRR | FRR | FRR | FRR | FRR | FRR | FRR | FRR | FRR |
| Commit ID | 3e71b5d | 3d7746c | f731a65 | f92f83b | c47b10c | fb13970 | 511684d | 5cf0c43 | 2d67d5a |
| Commit Date | 2017-04-02 | 2017-04-25 | 2017-05-24 | 2017-07-01 | 2017-08-09 | 2017-08-16 | 2017-08-24 | 2017-09-08 | 2017-09-14 |
| ANVL-ISIS-1.1 | ISO/IEC 10589:1992(E)s9.5 | p49 Level 1 LAN IS to IS hello Pt | DU | | • | • | • | • | • |
| MUST | | S hello PDU must have ting Protocol Discrimi ID extension = 1 | nator = 0x83 | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass |
| ANVL-ISIS-1.2 | ISO/IEC 10589:1992(E)s9.5 | p49 Level 1 LAN IS to IS hello PD | DU | | | | | | |
| MUST | Reserved/Circuit Ty | (5th octet), Reserved pe (9th octet) and 8th always set to zero in | n bit of Priority are | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass |
| ANVL-ISIS-1.3 | ISO/IEC 10589:1992(E)s9.5 | p49 Level 1 LAN IS to IS hello PI | DU | | | | | | |
| MUST | 1. An Integer betwe the corresponding 1 2. The Value zero, | field shall take any en 1 and 8, inclusive, ength which indicates a six hich means a null ID f | octet ID, field leng | eld of th | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass |
| ANVL-ISIS-1.4 | ISO/IEC 10589:1992(E)s9.5 | p49-50 Level 1 LAN IS to IS hello | PDU | • | • | • | • | | |
| MUST | IS to IS Hello PDU In a LAN Level 1 II | H the Circuit Type mus | st be either 1 or 3 | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass |
| ANVL-ISIS-1.5 | ISO/IEC 10589:1992(E)s9.5 RFC 1195 s5.3.1 p37-38 Lev | p50 Level 1 LAN IS to IS hello PD el 1 LAN IS to IS hello PDU | DU | | | | | | |
| MUST | IS to IS Hello PDU The valid Codes tha of Level 1 LAN IS t Area Address Protocols Supported IP Interface Addres | | the VARIABLE LENGTH F | IELD | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|--|---|--|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|--|
| ANVL-ISIS-1.6 | RFC 1195 s4.4 p32 Maintainin s5.2 p34 Overview of IP-specif | | | | | | | | | | | | |
| MUST | IS to IS Hello PDU The Protocol supported field must be present in all IS-IS Hello Packets send by IP-only routers | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.7 | NEGATIVE : RFC 1195 s4.4 p | 32 Maintaining Router Adjacenci | es | | | | | | | | | | |
| MUST | IS to IS Hello PDU The Protocol Support Packets send by IP-o | ed field must be pres | ent in all IS-IS Hell | 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 | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.8 | ISO/IEC 10589:1992(E)s9.6 p | 51 Level 2 LAN IS to IS hello PD | U | | | | | | | | | | |
| MUST | Intra-domain Rout PDU type = 16 | vel 2 LAN IS to IS hello PDU must have Intra-domain Routing Protocol Discriminator = 0x83 PDU type = 16 Version/Protocol ID extension = 1 | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.9 | ISO/IEC 10589:1992(E)s9.6 p | 51 Level 2 LAN IS to IS hello PD | U | | | | | | | | | | |
| MUST | Reserved/Circuit Typ | 5th octet), Reserved(e(9th octet) and 8th lways set to zero in | bit of Priority are | f | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.10 | ISO/IEC 10589:1992(E)s9.6 p | 51 Level 2 LAN IS to IS hello PD | U | | | | | | | | | | |
| MUST | 1. An Integer betwee the corresponding le 2. The Value zero,wh | field shall take any en 1 and 8,inclusive,i ength sich indicates a six o ch means a null ID fi | ndicating an ID field ctet ID, field length | of | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.11 | ISO/IEC 10589:1992(E)s9.6 p | 51 Level 2 LAN IS to IS hello PD | U | | | | | | | | | | |
| MUST | IS to IS Hello PDU In a LAN Level 2 IIH | I the Circuit Type mus | t be either 2 or 3 | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | | |
|----------------|--|--|-----------------------|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|--|--|
| ANVL-ISIS-1.12 | ISO/IEC 10589:1992(E)s9.6 p RFC 1195 s5.3.2 p38-39 Leve | 51-52 Level 2 LAN IS to IS hello | PDU | | | | | | | | | | | |
| MUST | of Level 2 LAN IS to Area Address Protocols Supported | 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 IP Interface Address | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-1.13 | RFC 1195 s4.4 p32 Maintainin s5.2 p34 Overview of IP-speci | | | | | | | | | | | | | |
| MUST | | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-1.14 | NEGATIVE : RFC 1195 s4.4 p | 32 Maintaining Router Adjacenc | es | | • | • | | • | | | | | | |
| MUST | IS to IS Hello PDU The Protocol Supported field must be present in all IS-IS Hello Packets sent by IP-only routers | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-1.19 | RFC 1195 s3.1 p15 Exchange of Routing information | | | | | | | | | | | | | |
| MUST | IS to IS Hello PDU IP capable routers need to know what network layer protocols are supported by other routers in their area | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-1.20 | RFC 1195 s4.2 p31 Multiple IF | Addresses per Interface | | | - | | | • | | | | | | |
| MUST | | esponding to the SNPA e maximum of 63 IP add | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-1.21 | RFC 1195 s3.1 p15 Exchange | of Routing information | | | | | | | | | | | | |
| MUST | | need to know what netw couters in their area | ork layer protocols a | ure | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|---|---|------------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-1.22 | RFC 1195 s4.2 p31 Multiple IF | ² Addresses per Interface | | | | | | | | | | | |
| MUST | IS to IS Hello PDU Each interface corresponding to the SNPA over which is transmitted can have maximum of 63 IP addresses | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.23 | RFC 1195 s4.2 p31 Multiple IF | ² Addresses per Interface | | | | | | | | | | | |
| MUST | | esponding to the SNPA can have a maximum of | | :IH | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-1.24 | RFC 1195 s4.2 p31 Multiple IF | ² Addresses per Interface | | | | | | | | | | | |
| MUST | | esponding to the SNPA can have a maximum of | | :IH | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-2.1 | ISO/IEC 10589:1992(E) s9.8 p | p54 Level 1 LSPDU | | | | | | | | | | | |
| MUST | Discriminator = 0x83 | 1 LSP must have Intra 3, PDU Type = 18, Vers Version (6th octet) = | sion/Protocol ID exten | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-2.2 | ISO/IEC 10589:1992(E) s9.8 p | p54 Level 1 Link State PDU | | | | | | | | | | | |
| MUST | | (5th octet) and Reser always set to zero in | | עכ | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-2.3 | ISO/IEC 10589:1992(E) s9.8 p | p54-55 Level 1 Link State PDU | | | | | | | | | | | |
| MUST | values: 1. An integer betwee coresponding length 2. The value zero, w | field shall take any en 1 and 8 ,inclusive, which indicates a six nich means a null ID f | indicating an ID fie | eld of | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | | | | | | | | | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | |
|----------------|--|---|---|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|
| ANVL-ISIS-2.4 | ISO/IEC 10589:1992(E) s9.8 p RFC 1195 s5.3.4, p40-43 Leve | p54-55 Level 1 Link State PDU el 1 Link State PDU | | | | | | | | | | |
| MUST | Link State PDU The valid codes that of level 1 link stat Area Addresses Intermediate system Protocols Supported IP Interface Address IP internal Reachabi | Neighbors | he VARIABLE LENGTH FI | IELD | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-2.11 | ISO/IEC 10589:1992(E) s9.9 p | p57 Level 2 LSPDU | | | | | | | | | | |
| MUST | Link State PDU Test that the level 2 LSP must have Intradomaim Routing Protocol Discriminator =0x83, PDU Type=20, Version/Protocol ID extension(3rd octet) = 1 and Version (6th octet) = 1 in the Header | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-2.12 | ISO/IEC 10589:1992(E) s9.9 p | p57 Level 2 Link State PDU | | | | | | | | | | |
| MUST | Link State PDU Bit 6-8 of PDU Type (5th octet) and Reserved (7th octet) are reserved which are always set to zero in Level 2 Link State PDU | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-2.13 | ISO/IEC 10589:1992(E) s9.9 p | p57 Level 2 Link State PDU | | | | | | | | | | |
| MUST | values: 1. An integer between coresponding length 2. The value zero, w | field shall take any en 1 and 8 ,inclusive, which indicates a six nich means a null ID f | indicating an ID fie | eld of | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-2.14 | ISO/IEC 10589:1992(E) s9.9 p RFC 1195 s5.3.5,p43-48 Leve | p57-59 Level 2 Link State PDU el 2 Link State PDU | | | • | | | | | | | |
| MUST | | | | | | | | | | | | |
| MOST | Link State PDU The valid codes that of level 2 link stat Area Addresses Intermediate system Protocols Supported IP Interface Address IP internal Reachabi | Neighbors | he VARIABLE LENGTH FI | TELD | | | | | | | | |
| MICO | The valid codes that of level 2 link stat Area Addresses Intermediate system Protocols Supported IP Interface Address | ce PDU are: Neighbors | he VARIABLE LENGTH FI Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|---|---|--|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|--|
| ANVL-ISIS-2.17 | RFC 1195 S3.1 P15 Exchange | e of routing information | | | | | | | | | | | |
| MUST | Link State PDU IS-IS requires that any codes in a received PDU that are not recognized are ignored and passed through unchanged | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-2.18 | RFC 1195 S3.1 P15 Exchange | e of routing information | | | | | | | | | | | |
| MUST | Link State PDU IS-IS requires that any codes in a received PDU that are not recognized are ignored and passed through unchanged | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-3.1 | ISO/IEC 10589:1992(E) s9.10 | p60 Level 1 complete sequence | numbers PDU | | | | | • | | | | | |
| MUST | protocol Discriminat | y quence number PDU must cor = 0x83, PDU Type = c) = 1 and Version (6t | 24, Version/Protocol | ID | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-3.2 | ISO/IEC 10589:1992(E) s9.10 | p60 Level 1 Complete sequence | e number PDU | | • | - | | • | | | | | |
| MUST | 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 numbers PDU | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-3.3 | ISO/IEC 10589:1992(E) s9.10 | p57 Level 1 complete sequence | e numbers PDU | | | | | | | | | | |
| MUST | shall take any one of 1. An integer between coresponding length 2. The value zero, w | field in a Level 1 Coof these following valen 1 and 8, inclusive, which indicates a six | <pre>ues: indicating an ID fid octet ID,field length</pre> | eld of | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-3.4 | PDU | p60-61 Level 1 complete seque | | | | | | | | | | | |
| | | must be present in t quence numbers PDU are | | TELD of | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | | |
|---------------|--|--|---|-------------------------|-------------------------|----------------------|------------------------|--------------------|-------------------------|--|--|--|--|--|
| ANVL-ISIS-3.5 | ISO/IEC 10589:1992(E) s9.10 PDU | p61-62 Level 2 complete seque | nce numbers | | | | | | | | | | | |
| MUST | Sequence Numbers PDU Level 2 complete sequence number PDU must have Intra-domain Routing protocol Discriminator = 0x83, PDU Type = 25, Version/Protocol ID extension (3rd octet) = 1 and Version (6th octet) = 1 in the header | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-3.6 | ISO/IEC 10589:1992(E) s9.11 | SO/IEC 10589:1992(E) s9.11 p62 Level 2 Complete sequence number PDU | | | | | | | | | | | | |
| MUST | Sequence Numbers PDU Bit 6-8 of PDU Type (5th octet) and Reserved(7th octet) are reserved which are always set to zero in Level 2 complete sequence numbers PDU Ubuntu 16.04: pass Ubun | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-3.7 | ISO/IEC 10589:1992(E) s9.11 PDU | p61-62 Level 2 complete seque | nce numbers | | | | | | | | | | | |
| | shall take any one o 1. An integer betwee coresponding length 2. The value zero, w | field in a Level 2 Co of these following val on 1 and 8, inclusive, which indicates a six sich means a null ID f | ues: indicating an ID fie octet ID, field lengt | ld of | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-3.8 | PDU | p62 Level 2 complete sequence complete sequence numbers PD | | | | | | | | | | | | |
| | | must be present in t quence numbers PDU are | | ELD of | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-3.9 | ISO/IEC 10589(E) s9.12 p62-6 | 63 Level 1 partial sequence num | pers PDU | | | | | | | | | | | |
| MUST | Sequence Numbers PDU Level 1 partial sequence number PDU must have Intra-domain Routing protocol Discriminator=0x83, PDU Type=26, Version/Protocol ID extension (3rd octet)=1 and Version (6th octet)=1 in the header | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | |
|----------------|---|--|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|----------------------|-------------------------|--|
| ANVL-ISIS-3.10 | ISO/IEC 10589:1992(E) s9.12 | p63 Level 1 partial sequence nu | mber PDU | | | | | | | |
| MUST | | (5th octet) and Reser lways set to zero in | | ence | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | |
| ANVL-ISIS-3.11 | ISO/IEC 10589:1992(E) s9.12 | p63 Level 1 partial sequence nu | mber PDU | | | | | | | |
| MUST | values: 1. An integer betwee coresponding length 2. The value zero, w | field shall take any on 1 and 8 , inclusive which indicates a six ich means a null ID f | , indicating an ID fi | eld of | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | |
| ANVL-ISIS-3.12 | ISO/IEC 10589:1992(E) s9.12 RFC 1195 s5.3.8,p49 Level 1 p | p63 Level 1 partial sequence nu partial sequence number PDU | mber PDU | | | | | | | |
| MUST | | must be present in t ence numbers PDU are: | he VARIABLE LENGTH FI | ELD of | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | |
| ANVL-ISIS-3.13 | ISO/IEC 10589(E) s9.12 p64-6 | 55 Level 2 partial sequence num | pers PDU | | | | | | | |
| MUST | protocol Discriminat | nence number PDU must or=0x83, PDU Type=27, orsion (6th octet)=1 i | Version/Protocol ID | ating extension | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | |
| ANVL-ISIS-3.14 | ISO/IEC 10589:1992(E) s9.12 | p64 Level 2 partial sequence nu | mber PDU | | | | | | | |
| MUST | 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 | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|--|--|-----------------------|-------------------------|-------------------------|----------------------|------------------------|--------------------|-------------------------|--|--|--|--|
| ANVL-ISIS-3.15 | ISO/IEC 10589:1992(E) s9.12 | p64 Level 2 partial sequence nu | mber PDU | | • | | | • | | | | | |
| MUST | values: 1. An integer betwee coresponding length 2. The value zero, w | field shall take any en 1 and 8 ,inclusive, which indicates a six ch means anull ID fie | indicating an ID fiel | d of | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | | | | |
| ANVL-ISIS-3.16 | ISO/IEC 10589:1992(E) s9.12 RFC 1195 s5.3.9,p49 Level 2 p | p64 Level 2 partial sequence nu partial sequence number PDU | mber PDU | | | | | | | | | | |
| MUST | | equence Numbers PDU see valid codes that must be present in the VARIABLE LENGTH FIELD of sevel 2 partial sequence numbers PDU are: | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.1 | ISO/IEC 10589:1992(E), s7.2. | 4, p14, Links | | | - | | | • | | | | | |
| MUST | Level 1 Adjacency IS discover neighbours and forms adjacencies by exchanging ISIS Hello PDUs. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.2 | RFC 1195, s5.1, p33, Overview | w of ISIS PDUs | | | • | | | | | | | | |
| MUST | Level 1 Adjacency Hello packets are us neighbouring ISs. | sed to initialize and | maintain adjacencies | between | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.3 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork III | H PDUs | | • | | | | | | | | |
| MUST | Level 1 Adjacency An L1 IS shall trans | mit only L1 LAN IIHs. | | | | | | _ | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.4 | ISO/IEC 10589:1992(E), s8.4.2 | 2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | | |
| SHOULD | Level 1 Adjacency An L1 IIH sent by L1 IS should contain the manualAreaAddresses and LAN Addresses of L1 IS adjacencies. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|--|---|-----------------------|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|--|
| ANVL-ISIS-4.5 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork III | H PDUs | | | • | | • | | | | | |
| MUST | Level 1 Adjacency An L1 IS shall transmit L1 LAN IIHs to the multi-destination address AllL1ISs. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.6 | ISO/IEC 10589:1992(E), s8.4.2 | 2, p44, Broadcast subnetwork III | H PDUs | | | - | | | | | | | |
| MUST | Level 1 Adjacency L1 ISs shall listen | on the multi-destinat | ion address AllL1ISs. | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.7 | NEGATIVE: ISO/IEC 10589:19 Broadcast subnetwork IIH PDU | | | | | | | | | | | | |
| MUST | Level 1 Adjacency L1 ISs shall reject destination as AllL1 | any L1 LAN IIH that d | loesn"t have the | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-4.8 | ISO/IEC 10589:1992(E), s8.4. | 2.1, p44, IIH PDU acceptance te | ests | | | | | • | | | | | |
| SHOULD | Level 1 Adjacency If the IDLength of the L1 IIH is not equal to the value of the IS routingDomainIDLength, it should be discarded. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.9 | ISO/IEC 10589:1992(E), s8.4.: ISO/IEC 10589:1992(E), s8.2. | 2.2, p45, Receipt of L1 LAN IIH 4.2, p38, IIH PDU Processing | PDUs | | | | | | | | | | |
| SHOULD | | IH"s areaAddresses do | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-4.10 | ISO/IEC 10589:1992(E), s8.4.: ISO/IEC 10589:1992(E), s8.2. | 2.2, p45, Receipt of L1 LAN IIH 4.2, p38, IIH PDU Processing | PDUs | | | | | | | | | | |
| MUST | Level 1 Adjacency If the received L1 I values from the manu adjacency. | IHs areaAddress field alAreaAddresses of th | matches any of the | ept the | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | | |
|----------------|--|--|-----------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|--|
| ANVL-ISIS-4.11 | ISO/IEC 10589:1992(E), s8.4. ISO/IEC 10589:1992(E), s8.2. | 2.2, p45, Receipt of L1 IIH PDUs 4.2, p38, IIH PDU Processing | 3 | • | • | | | • | | | | | | |
| MUST | | IHs maximumAreaAddres | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-4.12 | ISO/IEC 10589:1992(E), s8.4. | 2.2, p45, Receipt of L1 IIH PDU | 3 | | | | | | | | | | | |
| MUST | | If the L1 ISs maximumAreaAddresses is not 3, then it will discard all L1 LAN IIH with non matching maximumAreaAddresses value. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-4.13 | ISO/IEC 10589:1992(E), s8.2. ISO/IEC 10589:1992(E), s8.4. | 4.2, p38, IIH PDU processing 2.2, p45, Receipt of L1 IIH PDU | 5 | | | | | • | | | | | | |
| MUST | | mplements a value of t IIH even if it has a value. | | Addresses, | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | | |
| ANVL-ISIS-4.14 | ISO/IEC 10589:1992(E), s8.4. | 2.5.1, p45, New Adjacencies | | | | | | | | | | | | |
| MUST | Level 1 Adjacency When an L1 IS receives an L1 LAN IIH from another IS (R), then the next L1 IIH generated by the IS will include R. | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-4.15 | ISO/IEC 10589:1992(E), s8.4. | 2.5.1, p45, New Adjacencies | | | | | | | | | | | | |
| MUST | Level 1 Adjacency When an L1 IS receiv create an adjacency. | ves an L1 LAN IIH with | its own entry, then | it shall | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-4.16 | ISO/IEC 10589:1992(E), s8.4. | 2.5.2, p45, New Adjacencies | | | | | | | | | | | | |
| MUST | Level 1 Adjacency If a neighbour is no purge it from the da | ot heard within the Ho | lding Time, the L1 IS | shall | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | |
|---------------|--|-----------------------------------|-----------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|
| ANVL-ISIS-5.1 | ISO/IEC 10589:1992(E), s7.2. | 4, p14, Links | | | | | | • | | | | |
| MUST | Level 2 Adjacency IS discover neighbou ISIS Hello PDUs. | urs and forms adjacenc | ies by exchanging | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.2 | RFC 1195, s5.1, p33, Overvie | w of ISIS PDUs | | | | | | | | | | |
| MUST | Level 2 Adjacency Hello packets are us neighbouring ISs. | sed to initialize and | maintain adjacencies | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.3 | ISO/IEC 10589:1992(E), s8.4. | .2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | |
| MUST | Level 2 Adjacency An L2 IS shall trans | smit only L2 LAN IIHs. | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.4 | ISO/IEC 10589:1992(E), s8.4. | .2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | |
| SHOULD | Level 2 Adjacency An L2 IIH sent by L2 IS should contain the manual Area Addresses and LAN Addresses of L2 IS adjacencies. | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.5 | ISO/IEC 10589:1992(E), s8.4. | .2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | |
| MUST | Level 2 Adjacency An L2 IS shall trans address AllL2ISs. | smit L2 LAN IIHs to th | e multi-destination | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.6 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork III | H PDUs | - | | | | • | | | | |
| MUST | Level 2 Adjacency L2 ISs shall listen | on the multi-destinat | ion address AllL2ISs | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-5.7 | ISO/IEC 10589:1992(E), s8.4. | .2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | |
| MUST | Level 2 Adjacency L2 ISs shall reject destination as AllL2 | any L2 LAN IIH that d | loesn"t have the | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|---|---|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|----------------------|-------------------------|--|--|--|--|
| ANVL-ISIS-5.8 | ISO/IEC 10589:1992(E), s8.4. | 2.1, p44, IIH PDU acceptance te | sts | | • | • | | • | | | | | |
| SHOULD | Level 2 Adjacency If the IDLength of the L2 LAN IIH is not equal to the value of the ISs routingDomainIDLength, it should be discarded. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-5.9 | ISO/IEC 10589:1992(E), s8.4.2 | 2.5.1, p45, New Adjacencies | | | | | | | | | | | |
| MUST | | res an L2 LAN IIH from ad by the IS will incl | | ı the | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-5.10 | ISO/IEC 10589:1992(E), s8.4. | 2.5.1, p45, New Adjacencies | | • | • | | | | | | | | |
| MUST | Level 2 Adjacency When an L2 IS receiv create an adjacency. | ves an L2 LAN IIH with | its own entry, then | it shall | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-5.11 | ISO/IEC 10589:1992(E), s8.4.2 | 2.5.2, p45, New Adjacencies | | | • | | | | | | | | |
| MUST | Level 2 Adjacency If a neighbour is not heard within the Holding Time, the L2 IS shall purge it from the database. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-6.1 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork III | H PDUs | | - | | | • | | | | | |
| MUST | Level 1 and Level 2 An L1/L2 IS shall cr LAN IIH. | Adjacency reate separate adjacen | cies on receipt of L1 | and L2 | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | | | | |
| ANVL-ISIS-6.2 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork III | H PDUs | | | | | • | | | | | |
| MUST | Level 1 and Level 2 An L1/L2 IS shall tr | Adjacency ransmit both L1 and L2 | LAN IIHs. | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-6.3 | ISO/IEC 10589:1992(E), s8.4.2 | 2, p44, Broadcast subnetwork III | H PDUs | | | | | | | | | | |
| MUST | | Adjacency sten on the multi-des L2 LAN IIHs respectiv | | lISs and | | | | | | | | | |
| | Ubuntu 16.04: unpredict | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: unpredict | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | |
|---------------|---|---|------------------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|
| ANVL-ISIS-6.4 | ISO/IEC 10589:1992(E), s8.4. | 2, p44, Broadcast subnetwork II | H PDUs | | | • | | • | | | | |
| MUST | Level 1 and Level 2 Adjacency An L1/L2 IS shall reject any LAN IIH that doesn"t have the destination as AllL1ISs or AllL2ISs. | | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-7.1 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | Level 1 Designated R Election process of priority field in th | | es 3 is done by verifying | ſ | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-7.2 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | | | es 3 is done by verifying | 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 | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-7.3 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | Election process of | Routers and Pseudonode level 1 designated IS ne IIH and the MAC add | s is done by verifying | ı | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-7.4 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | Election process of | Routers and Pseudonode level 1 designated IS ne IIH and the MAC add | S is done by verifying | 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 | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-7.5 | ISO/IEC 10589:1992(E) s8.4.5 | 5 p46 LAN designated IS | | | | | | | | | | |
| MUST | | Routers and Pseudonode L1 Designated IS, it | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | |
|---------------|--|---|------------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|
| ANVL-ISIS-7.6 | ISO/IEC 10589:1992(E) s8.4.5 | 5 p47 LAN designated ISs | | | | | | • | | | | |
| миѕт | Level 1 Designated Routers and Pseudonodes An L1 IS shall transmit L1 LAN IIHs with the LAN ID field set to the LAN ID of the designated L1 IS | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-8.1 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | | Routers and Pseudonode level 2 designated IS ne IIH | | r | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-8.2 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | | Routers and Pseudonode level 2 designated IS ne IIH | | 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 | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-8.3 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | | | | | | |
| MUST | Level 2 Designated F | Routers and Pseudonode level 2 designated IS ne IIH and the MAC add | s is done by verifying | ī | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| ANVL-ISIS-8.4 | ISO/IEC 10589:1992(E) s7.2.3 RFC 1195 s4.3 p31 Designate | | | | | | • | | | | | |
| MUST | Election process of | Routers and Pseudonode level 2 designated IS ne IIH and the MAC add | s is done by verifying | ı | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| ANVL-ISIS-8.5 | ISO/IEC 10589:1992(E) s8.4.5 | 5 p46 LAN designated IS | | | | | | | | | | |
| миѕт | | Routers and Pseudonode L2 Designated IS,it s | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|---------------|---|--|------------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-8.6 | ISO/IEC 10589:1992(E) s8.4.5 | p47 LAN designated ISs | | | | | | | | | | | |
| MUST | Level 2 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 | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-9.1 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p44 IIH PDU Acceptance Testation | sts | | | | | | | | | | |
| MUST | If authentication is | el 1 LAN Circuit Authentication authentication is enabled on a circuit and the received L1 LAN IIH on"t contain the authentication information field, the L1 IS shall card the PDU | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-9.2 | ISO/IEC 10589:1992(E) s8.4.4 RFC 1195 s3.9 p25 Authentica | p46 Transmission of LAN IIH Pation | DUs | | | | | | | | | | |
| MUST | Level 1 LAN Circuit Authentication An L1 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L1 LAN IIH PDU if authentication is enabled on the circuit | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-9.3 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p45 IIH PDU Acceptance Testation | ets | | | | | | | | | | |
| MUST | contains authenticat | Authentication senabled on a circuit ion information of tyrof the circuitReceiv | rpe Password, and if t | this | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-9.4 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p45 IIH PDU Acceptance Tes ation | sts | | | | | | | | | | |
| MUST | If authentication is contains authenticat Password does not ma | Level 1 LAN Circuit Authentication 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 | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|---|---|--|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-9.5 | ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication | | | | | | | | | | | | |
| MUST | Level 1 LAN Circuit If authentication is IIH contains authent implement, then the | s enabled on a circuit cication information o | and the received L1 f a type that the IS | LAN doesn"t | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-10.1 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p45 IIH PDU Acceptance Tes ation | ts | | | | | | | | | | |
| MUST | | Authentication senabled on a circuit authentication inform | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-10.2 | ISO/IEC 10589:1992(E) s8.4.4 RFC 1195 s3.9 p25 Authentica | 4 p46 Transmission of LAN IIH Pation | DUs | | | | | | | | | | |
| MUST | Level 2 LAN Circuit Authentication An L2 IS will include authentication information of type Password containing the circuitTransmitPassword as the authentication value in its L2 LAN IIH PDU if authentication is enabled on the circuit | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-10.3 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p45 IIH PDU Acceptance Tes ation | ts | | | | | | | | | | |
| MUST | contains authenticat | Authentication senabled on a circuittion information of ty of the circuitReceiv | pe Password, and if t | his | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-10.4 | ISO/IEC 10589:1992(E) s8.4.2 RFC 1195 s3.9 p25 Authentica | 2.1 p45 IIH PDU Acceptance Tes ation | ts | | | | | | | | | | |
| MUST | If authentication is contains authenticat Password does not ma | Level 2 LAN Circuit Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of type Password, and if this Password does not match any of the circuitReceivePasswords, then the L2 IS discards the PDU | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|--|--|-------------------------|-------------------------|--------------------|-------------------------|------------------------|--------------------|-------------------------|--|--|--|--|
| ANVL-ISIS-10.5 | ISO/IEC 10589:1992(E) s8.4.2.1 p45 IIH PDU Acceptance Tests RFC 1195 s3.9 p25 Authentication | | | | | | | | | | | | |
| MUST | Level 2 LAN Circuit Authentication If authentication is enabled on a circuit and the received L2 LAN IIH contains authentication information of a type that the IS doesn"t implement, then the IS discards the PDU | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.1 | ISO/IEC 10589:1992(E) s7.3.2 information | 2 p19-p20 Generation of local lin | k state | | | | | • | | | | | |
| MUST | under the following | s responsible for gen | | Us | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.2 | ISO/IEC 10589:1992(E) s7.3.5 | 5 p21 Periodic LSP Generation | | | | | • | • | | | | | |
| MUST | Periodic LSP Generation The Intermediate System shall regenerate every LSP at intervals of atmost maximum LSPGeneration interval | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.3 | ISO/IEC 10589:1992(E) s7.3.5 | 5 p21 Periodic LSP Generation | | | | | | | | | | | |
| MUST | | tion stem shall regenerate SPGeneration interval | every LSP at interval | .s | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.4 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p29 Sequence number | | | | | | • | | | | | |
| SHOULD | | cion nmber reaches the Sequ sabled for a period of | | uting | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-11.5 | ISO/IEC 10589:1992(E) s7.3.1 Expiration synchronization | 16.3-4 p29 Remaining LifeTime F | Field & LSP | | | | | | | | | | |
| MUST | | eTime field of the rege that LSP from its | | lizes | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|----------------|--|--|-----------------------|-------------------------|--------------------|-------------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-11.6 | ISO/IEC 10589:1992(E) s7.3.1 Expiration synchronization | 16.3-4 p29 Remaining LifeTime I | Field & LSP | • | • | | | • | | | | | |
| MUST | Periodic LSP Generation If the Remaining LifeTime field of the received LSP is zero the system shall purge that LSP from its database and synchronizes by flooding an expired LSP | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.7 | ISO/IEC 10589:1992(E) s7.3.2 information | 2 p19-p20 Generation of local lin | k state | | | | | | | | | | |
| MUST | under the following | s responsible for gen | | DUs | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-11.8 | ISO/IEC 10589:1992(E) s7.3.1 | 16.1 p29 Sequence number | • | • | | | | | | | | | |
| SHOULD | Periodic LSP Generation When the sequence number reaches the Sequence Modulus, the routing module should be disabled for a period of at least MaxAge + ZeroAgeLifetime | | | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-17.1 | RFC 1195 S3.5 P23 Type of S | Service Routing | - | - | - | | | • | | | | | |
| MUST | Type of Service Routing If there is no path from source to destination made up of routers, which supports that particular type of service, then the packet will forwarded using default metric | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-17.2 | ISO/IEC 10589:1992(E) S7.3.4 | 4 P21 Multiple LSPs | • | • | • | | | • | | | | | |
| MUST | If an LSP becomes em | Type of Service Routing If an LSP becomes empty because of all the adjacencies reported in that LSP no longer exists, an IS may purge that LSP instead | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-17.3 | RFC 1195 s5.3.4 P42 Level 1 | Link State PDU | | | | | | | | | | | |
| MUST | Type of Service Rout Bit 8 of DEFAULT MET on transmission | ring TRIC is reserved and m | nust be set to zero | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|-----------------|---|---|--|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-17.4 | RFC 1195 s5.3.4 P42 Level 1 | Link State PDU | | | | | | • | | | | | |
| MUST | Type of Service Routing Bit 7 of DEFAULT METRIC field (marked I/E) must be set to zero indicating internal metric | | | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-17.5 | ISO/IEC 10589:1992(E) s7.2.8 Intermediate systems | 8.1 p15 Computing routes throug | h overloaded | | | | | | | | | | |
| MUST | | s shall not utilise a om an IS whose LSPs ha | | ite | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-17.7 | RFC 1195 S3.5 P23 Type of S | Service Routing | | | | | | | | | | | |
| MUST | Type of Service Rout If there is no path which supports that forwarded using defa | from source to desting particular type of se | ation made up of rout rvice, then the packe | ers, et will | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-17.8 | ISO/IEC 10589:1992(E) S7.3.4 | 4 P21 Multiple LSPs | | | | | | • | | | | | |
| MUST | | ing mpty because of all ther exists, an IS may p | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-17.9 | RFC 1195 s5.3.5 P45 Level 2 | Link State PDU | | | | | | • | | | | | |
| MUST | Type of Service Rout Bit 8 of DEFAULT MET on transmission | ring TRIC is reserved and m | ust be set to zero | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-17.10 | RFC 1195 s5.3.4 P45 Level 2 | Link State PDU | | | | | | • | | | | | |
| MUST | Type of Service Rout Bit 7 of DEFAULT MET indicating internal | TRIC field (marked I/E |) must be set to zero |) | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|-----------------|---|-----------------------------------|-----------------------|-----------------------|--------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-17.11 | ISO/IEC 10589:1992(E) s7.2.8 Intermediate systems | 3.1 p15 Computing routes throug | h overloaded | | | | | | | | | | |
| MUST | Type of Service Routing The Decision Process shall not utilise a link to an Intermediate system neighbour from an IS whose LSPs have the LSP Data-base Overload indication set. | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.1 | ISO/IEC 10589:1992(E) S7.2.5 | 5 P14 Multiple LSPs for the same | e system | | • | | | | | | | | |
| MUST | number zero and disr | | mber is non-zero | SP. | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.2 | ISO/IEC 10589:1992(E) S7.3 I | P19 Update process | | | | | | | | | | | |
| MUST | Propagation of LSPs The update process is responsible for generating and propagating Link State information reliably throughout the routing domain | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.3 | ISO/IEC 10589:1992(E) S7.3.2 information | 2 P19-20 Generation of local link | state " | | | | | | | | | | |
| MUST | under the following | the subnetwork depende | | Us | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.4 | ISO/IEC 10589:1992(E) S7.3.8 | 8 P22 Generation of level 1 pseu | donode LSPs | | | | | | | | | | |
| MUST | | option will not be pre | | rates | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.5 | ISO/IEC 10589:1992(E) \$7.3.1 PDU | 15.1 P24-25 Action on receipt of | Link state | | | | | | | | | | |
| MUST | Propagation of LSPs If this is a level 1 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|-----------------|--|---|-------------------------|-----------------------|-------------------------|----------------------|------------------------|--------------------|--------------------|--|--|--|--|
| ANVL-ISIS-18.6 | ISO/IEC 10589:1992(E) s7.3.1 | 14.1 p23 Propagation of LSPs | | | | | | • | | | | | |
| MUST | Propagation of LSPs Duplicate PDUs are detected and dropped | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.7 | ISO/IEC 10589:1992(E) s7.3.1 | 14.2 p24 Propagation ofLSPs | | | | | | | | | | | |
| MUST | Propagation of LSPs Level 1 Link State F at least one Level 1 | PDUs shall be propagat adjacency | ed on circuits, which | have | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.8 | ISO/IEC 10589:1992(E), s7.3. | 14.2, p24, Propagation of LSPs | | | | | | | | | | | |
| MUST | Propagation of LSPs When propagating a I transmit to the mult | .1 LSP on a broadcast :i-destination Address | subnetwork, the IS sh | all | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.9 | ISO/IEC 10589:1992(E) s7.3.1 | 14.2 p24 Propagation of LSPs | | | | | | | | | | | |
| MUST | Propagation of LSPs When an Intermediate System receives a LSP older than the one stored in the database, the stored link state PDU needs to be sent on the link form which the older one was received | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | |
| ANVL-ISIS-18.10 | ISO/IEC 10589:1992(E) S7.3. | 16.3 P29 Remaining Lifetime Fie | ld | | | | | | | | | | |
| MUST | Lifetime to MaxAge. | erates a link state PD Before transmitting a ement the Remaining Li | link state PDU to a | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-18.12 | RFC 1195 S3.1 P15 Exchange | e of routing information | | | | | | | | | | | |
| MUST | Propagation of LSPs Level 1 routers need each level 1 router | d to know what IP addr in their area | ress are reachable fro | om. | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | |
|-----------------|--|--|-----------------------|-----------------------|--------------------|----------------------|------------------------|---------------------|--------------------|--|--|--|--|
| ANVL-ISIS-18.13 | RFC 1195 S3.7 P24 IP-Only (| Operation | | | | | | • | | | | | |
| MUST | Propagation of LSPs Some of the VARIABLE LENGTH fields from IS-IS link packet must be omitted for IP only routers - The End System Neighbours entries are omitted - The Prefix Neighbours entries are omitted | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-19.1 | ISO/IEC 10589:1992(E) S7.2. | 5 P14 Multiple LSPs for the sam | e system | • | | | | | | | | | |
| MUST | The following informumber zero and dismander 1. The setting of the 2. The value of the | Generation of Local Link State Information 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 | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-19.2 | ISO/IEC 10589:1992(E) S7.3 | P19 Update process | | | | | | | | | | | |
| MUST | Generation of Local Link State Information The update process is responsible for generating and propagating Link State information reliably throughout the routing domain | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-19.3 | ISO/IEC 10589:1992(E) S7.3. information | ISO/IEC 10589:1992(E) S7.3.2 P19-20 Generation of local link state "information | | | | | | | | | | | |
| MUST | Generation of Local Link State Information The update process is responsible for generating Link State PDUs under the following circumstances: - When notified by the subnetwork dependent functions of an adjacency database change | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-19.4 | ISO/IEC 10589:1992(E) S7.3. | 8 P22 Generation of level 2 pseu | udonode LSPs | | | | | | | | | | |
| MUST | The Area Addresses of | Generation of Local Link State Information The Area Addresses option will not be present when an IS generates a level 2 Link State PDU on behalf of pseudonode | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | |
| ANVL-ISIS-19.5 | ISO/IEC 10589:1992(E) S7.3. PDU | 15 P24-25 Action on receipt of L | ink state | | | | | | | | | | |
| MUST | If this is a level 2 | Generation of Local Link State Information If this is a level 2 LSP and the Maximum Area Address field is not equal to the value of the ISs Maximum Area Address then the PDU shall be discarded | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | |
| | Obulitu 16.04. pass | Obditta 10.04. pass | Obditio 10:04: pass | Obditta 10.01. paso | | Counta rois ii pass | Carama Total II para | Obditta 10.01. page | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | | | |
|-----------------|--|--|--|-------------------------|-------------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|--|--|
| ANVL-ISIS-19.6 | ISO/IEC 10589:1992(E) s7.3.1 | 14.1 p23 Propagation of LSPs | | | | | | • | | | | | | |
| MUST | Generation of Local Link State Information Duplicate PDUs are detected and dropped | | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-19.7 | ISO/IEC 10589:1992(E) s7.3.1 | 14.2 p24 Propagation ofLSPs | | | | | | | | | | | | |
| MUST | Level 2 Link State P | Generation of Local Link State Information Level 2 Link State PDUs shall be propagated on circuits, which have at least one Level 2 adjacency State PDUs shall be propagated on circuits, which have at least one Level 2 adjacency State PDUs shall be propagated on circuits, which have State PDUs shall be propagated on circuits, w | | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-19.8 | ISO/IEC 10589:1992(E), s7.3. | 14.2, p24, Propagation of LSPs | | | | | | | | | | | | |
| MUST | When propagating a L | Link State Information 2 LSP on a broadcast i-destination Address | subnetwork, the IS sh | all | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-19.9 | ISO/IEC 10589:1992(E) s7.3.1 | 14.2 p24 Propagation of LSPs | | | | | | | | | | | | |
| MUST | When an Intermediate one stored in the da | Link State Information System receives a LS stabase, the stored li form which the older | P older than the nk state PDU needs to | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | | | |
| ANVL-ISIS-19.10 | ISO/IEC 10589:1992(E) s7.3.1 PDU | 15.1 p24 Action on receipt of a lir | nk state | | | | | | | | | | | |
| MUST | If the ID Length of | Link State Informatio the PDU is not equal ength, the PDU shall | to the value of the | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |
| ANVL-ISIS-19.11 | ISO/IEC 10589:1992(E) S7.3. | 16.3 P29 Remaining Lifetime Fie | ld | | | | | | | | | | | |
| MUST | When the source gene Lifetime to MaxAge. | Link State Informatio erates a link state PD Before transmitting a ement the Remaining Li | U,it shall set the Re link state PDU to a | | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | |
|-----------------|--|---|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------|--------------------|--|
| ANVL-ISIS-19.13 | RFC 1195 S3.2 P17 Exchange | e of routing information | | | | | | • | | |
| MUST | Generation of Local Link State Information Level 2 routers need to know what IP address are reachable from each level 2 router in their area | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | |
| ANVL-ISIS-19.14 | RFC 1195 S3.7 P25 IP-Only Operation | | | | | | | | | |
| MUST | Some of the VARIABLE omitted for IP only - The End System Nei | Link State Information LENGTH fields from I routers Lighbours entries are objurs entries are omitted | S-IS link packet must | be | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | |
| ANVL-ISIS-20.1 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p28 sequence numbers | | | | | | | | |
| MUST | Level 1 LSP Sequence Numbers When a system initializes, it shall start with sequence number with 1 for its own Link State PDUs: | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | |
| ANVL-ISIS-20.2 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p28 sequence numbers | | | | | | | | |
| SHOULD | Level 1 LSP Sequence Numbers The sequence number of any actually generated Link State PDU should not be zero | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | |
| ANVL-ISIS-20.3 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p29 sequence numbers | | | | | | | | |
| MUST | Level 1 LSP Sequence Numbers Update sequence number depending on the sequence number received from system in the domain | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | |
| ANVL-ISIS-20.4 | ISO/IEC 10589:1992(E) s7.3. | 16.2 p29 LSP confusion | | | | | | | | |
| MUST | | pers match, but checks cal system, then store | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | |
|----------------|---|--|------------------------|-------------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|
| ANVL-ISIS-21.1 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p28 sequence numbers | | | | | | | | | |
| MUST | Level 2 LSP Sequence Numbers When a system initializes, it shall start with sequence number with 1 for its own Link State PDUs | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | |
| ANVL-ISIS-21.2 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p29 sequence numbers | | | | | | | | | |
| SHOULD | Level 2 LSP Sequence The sequence number should not be zero: | e Numbers of any actually gener | rated Link State PDU | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-21.3 | ISO/IEC 10589:1992(E) s7.3. | 16.1 p29 sequence numbers | | • | • | | | | | | |
| MUST | Level 2 LSP Sequence Numbers Update sequence number depending on the sequence number received from system in the domain | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-21.4 | ISO/IEC 10589:1992(E) s7.3. | 16.2 p29 LSP confusion | • | | • | | | | | | |
| MUST | Level 2 LSP Sequence Numbers If the sequence numbers match, but checksums do not and the LSP is not generated by the local system, then store the LSP with zero Remaining Lifetime, and flood the LSP | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | |
| ANVL-ISIS-24.1 | ISO/IEC 10589:1992(E) s7.3. | 19.1 p31 Entering the waiting sta | ate | • | • | | • | | | | |
| MUST | Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-24.2 | ISO/IEC 10589:1992(E) s7.3. | 19.1 p31 Entering the waiting sta | ate | • | • | | • | | | | |
| MUST | Waiting State When an LSP cannot be stored, the LSP shall be ignored and waiting State will be entered | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | |
| ANVL-ISIS-25.2 | RFC3719 Section 2.1 Page 3 | " MaxAge" | | | | | | | | | |
| SHOULD | ISISUpdate - RFC 373 MaxAge SHOULD exceed Note: Verify the Rer | 19 d maximumLSPGeneratior mainingLifeTime of the | nInterval by atleast : | 300 seconds | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |

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| MAY 1800 1 | | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | | |
|--|----------------|---|--------------------------|-----------------------|-------------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|--|
| No. Column 15.01 peak Desire 15.01 peak | ANVL-ISIS-25.3 | RFC3719 Section 2.2 Page 4 | " ISISHoldingMultiplier" | | | | | | • | | | | |
| | MAY | | | | | | | | | | | | |
| MIST | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| ### AVAILABLE-2.5 ### AVAILABL | | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: unpredict | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| No. Section Process Union 16.01 pass Unio | ANVL-ISIS-25.4 | RFC3719 Section 3.1 Page 4 | " ID Length" | | - | | | | | | | | |
| Preside to 10 pages | MUST | | | | | | | | | | | | |
| ### ANVLISIS-25.0 ### RCG2719 Section 3.1 Page 4 in Discription ### ADVLISIS-25.0 ### | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| MUST | | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| Tr a router encounters a STD with an 1D Length distrement from 0 or 6, | ANVL-ISIS-25.5 | RFC3719 Section 3.1 Page 4 | " ID Length" | | • | • | | | | | | | |
| FreeBSD 10.3: pass | MUST | If a router encounters a PDU with an ID Length different from 0 or 6, | | | | | | | | | | | |
| ANVL-ISIS-25.6 SHOULD STRENGTH Section 3.2 Page 5 'maximum/realAddresses' SHOULD SHOU | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| SHOULD | | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | |
| Duniu 16.04: FAIL | ANVL-ISIS-25.6 | RFC3719 Section 3.2 Page 5 | "maximumAreaAddresses" | | • | • | • | | • | | | | |
| FreeBSD 10.3; FAIL FreeBSD | SHOULD | | | | | | | | | | | | |
| ANVL-ISIS-25.7 MUST RFC3719 Section 3.2 Page 5 * maximumAreaAddresses* that is not 0 or 3, it MUST If a router receives a PDU with maximumAreaAddresses that is not 0 or 3, it MUST discard the PDU, as described in section 7.3.15.a.3 Ubuntu 16.04: pass | | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | | |
| ISISUpdate - RFC 3719 If a router receives a PDU with maximumAreaAddresses that is not 0 or 3, it MUST discard the PDU, as described in section 7.3.15.a.3 Ubuntu 16.04: pass | | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | | |
| If a router receives a PDU with maximumAreAAddresses that is not 0 or 3, it NBTS disearch the PDU, as described in section 7.3.15.a.3 Ubuntu 16.04: pass | ANVL-ISIS-25.7 | RFC3719 Section 3.2 Page 5 | " maximumAreaAddresses" | | | | | | | | | | |
| FreeBSD 10.3: pass FreeBSD 10.3: | MUST | If a router receives a PDU with maximumAreaAddresses that is not 0 or 3, | | | | | | | | | | | |
| ANVL-ISIS-25.8 ### RFC3719 Section 3.3 Page 5 * Protocol Version* ### Ubuntu 16.04: pass | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| MUST ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version field Ubuntu 16.04: pass PreeBSD 10.3: pass FreeBSD 1 | | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | | |
| 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 Ubuntu 16.04: pass Ubunt | ANVL-ISIS-25.8 | RFC3719 Section 3.3 Page 5 | " Protocol Version" | | | | | | • | | | | |
| FreeBSD 10.3: pass FreeBSD 10.3: | MUST | If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. | | | | | | | | | | | |
| ANVL-ISIS-25.9 RFC3719 Section 3.3 Page 5 " Protocol Version" MUST ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field Ubuntu 16.04: pass | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| ISISUpdate - RFC 3719 If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field Ubuntu 16.04: pass | | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |
| If a router receives a PDU with a value other than 1 for either field, it MUST drop the packet. Note: Verify the Version/Protocol ID field Ubuntu 16.04: pass | ANVL-ISIS-25.9 | RFC3719 Section 3.3 Page 5 | " Protocol Version" | | | | | | | | | | |
| | MUST | If a router receives drop the packet. | s a PDU with a value o | | er field, it MUST | | | | | | | | |
| FreeBSD 10.3: pass FreeBSD 10.3: | | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | | |
| | | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | |
|-----------------|---|--|--|-------------------------|-------------------------|----------------------|------------------------|----------------------|--------------------|--|--|
| ANVL-ISIS-25.23 | RFC3719 Section 11 Page 11 | "Doppelganger LSPs" | | | ! | | | ! | | | |
| MUST | LSPID ranges cover t (i.e., there is no p | .9 SNPs is a set whose St the complete possible cossible LSPID value w one of the CSNPs in t | range of LSPIDs. hich does not appear | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-26.2 | RFC3719 Section 2.1 Page 3 | " MaxAge" | | | | | | | | | |
| SHOULD | ISISUpdate - RFC 3719 Part 2 MaxAge SHOULD exceed maximumLSPGenerationInterval by atleast 300 seconds Note: Verify the RemainingLifeTime of the Packet | | | | | | | | | | |
| | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | Ubuntu 16.04: FAIL | | |
| | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: FAIL | | |
| ANVL-ISIS-26.3 | RFC3719 Section 2.2 Page 4 | " ISISHoldingMultiplier" | | | | | | | | | |
| MAY | ISISUpdate - RFC 3719 Part 2 An implementation MAY allow ISISHoldingMultiplier to be configurable. | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: unpredict | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-26.4 | RFC3719 Section 3.1 Page 4 | " ID Length" | | | | | | | | | |
| MUST | ISISUpdate - RFC 3719 Part 2 An implementation MUST use an ID Length of 6. | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-26.5 | RFC3719 Section 3.1 Page 4 | " ID Length" | | | | | | | | | |
| MUST | ISISUpdate - RFC 3719 Part 2 If a router encounters a PDU with an ID Length different from 0 or 6, section 7.3.15.a.2 dictates that it MUST discard the PDU | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: pass | FreeBSD 10.3: pass | | |
| ANVL-ISIS-26.8 | RFC3719 Section 3.3 Page 5 | " Protocol Version" | | | | | | | | | |
| MUST | ISISUpdate - RFC 371 If a router receives drop the packet. Note: Verify the Ver | a PDU with a value o | ther than 1 for eithe | r field, it MUST | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |

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| | Release 2.0 | 3.0-dev 2017-04-25 | 3.0-dev 2017-05-24 | 3.0-dev 2017-06-30 | Release 3.0-rc1 | Master 2017-08-16 | Master 2017-08-24 | Master 2017-09-08 | Release 3.0-rc2 | | |
|-----------------|---|-----------------------|-----------------------|-----------------------|--------------------|----------------------|------------------------|----------------------|--------------------|--|--|
| ANVL-ISIS-26.9 | RFC3719 Section 3.3 Page 5 " Protocol Version" | | | | | | | | | | |
| MUST | 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 | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |
| ANVL-ISIS-26.23 | RFC3719 Section 11 Page 11 | "Doppelganger LSPs" | | | | | | | | | |
| MUST | ISISUpdate - RFC 3719 Part 2 A complete set of CSNPs is a set whose Start LSPID and End LSPID ranges cover the complete possible range of LSPIDs. (i.e., there is no possible LSPID value which does not appear within the range of one of the CSNPs in the set). | | | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | | |
| | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: pass | FreeBSD 10.3: untested | FreeBSD 10.3: FAIL | FreeBSD 10.3: pass | | |

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