| | 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 |
|---|---|---|---|---|---|---|---|---|---|
| Type | 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-BGP-AS4-1.1 **MUST** | Setup Verification | | | | | | | | |
| | Setup Verification Tests<br>Bring up BGP4 Connection using 4-Octet AS capapbiility | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.1 **MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions" | | | | | | | | |
| | Protocol Extensions<br>The Capability that is used by a BGP speaker to convey to its BGP<br>peer the 4-octet Autonomous System number capability, also carries<br>the 4-octet Autonomous System number of the speaker in the Capability<br>Value field of the Capability Optional Parameter. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.2 **MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions" | | | | | | | | |
| | Protocol Extensions<br>The Capability  Length field of the Capability is set to 4. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: 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-BGP-AS4-2.3 **MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions" | | | | | | | | |
| | Protocol Extensions<br>NEW BGP speakers carry AS path information expressed in terms of<br>4-octet Autonomous Systems numbers by using the existing AS_PATH<br>attribute, except that each AS number in this attribute is encoded<br>not as a 2-octet, but as a 4-octet entity. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.4 **MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions" | | | | | | | | |
| | Protocol Extensions<br>The same applies to the AGGREGATOR attribute - NEW BGP speakers<br>use the same attribute, except that the AS carried in this attribute<br>is encoded as a 4-octet entity. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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 |

| | 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-BGP-AS4-2.5<br><br>**MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions"<br>Note: Here we check for the flags only | | | | | | | | |
| | `Protocol Extensions`<br>`To preserve AS path information with 4-octet AS numbers across OLD`<br>`BGP speakers, this document defines a new AS path attribute, called`<br>`AS4_PATH.This is an optional transitive attribute that contains the`<br>`AS path encoded with 4-octet AS numbers.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.6<br><br>**MUST** | RFC4893 Section 3 Page 2 "Protocol Extensions"<br>Note: Here we check for the value in the field | | | | | | | | |
| | `Protocol Extensions`<br>`To preserve AS path information with 4-octet AS numbers across OLD`<br>`BGP speakers, this document defines a new AS path attribute, called`<br>`AS4_PATH.This is an optional transitive attribute that contains the`<br>`AS path encoded with 4-octet AS numbers.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.7<br><br>**MUST** | RFC4893 Section 3 Page 3 "Protocol Extensions"<br>Note: Here we check the attribute flags | | | | | | | | |
| | `Protocol Extensions`<br>`Similarly, this document defines a new aggregator attribute called`<br>`AS4_AGGREGATOR, which is optional transitive.` | | | | | | | | |
| | 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-BGP-AS4-2.8<br><br>**MUST** | RFC4893 Section 3 Page 3 "Protocol Extensions"<br>Note: Here we check the attribute value | | | | | | | | |
| | `Protocol Extensions`<br>`Similarly, this document defines a new aggregator attribute called`<br>`AS4_AGGREGATOR, which is optional transitive.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-2.9<br><br>**MUST** | RFC4893 Section 3 Page 3 "Protocol Extensions" | | | | | | | | |
| | `Protocol Extensions`<br>`We denote this special AS number as AS_TRANS for ease of description`<br>`in the rest of this specification.  This AS number is also placed`<br>`in the "My Autonomous System" field of the OPEN message originated`<br>`by a NEW BGP speaker, if the speaker does not have a (globally unique)`<br>`2-octet AS number.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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 |

| | 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-BGP-AS4-3.1<br>**SHOULD** | RFC4893 Section 4.1 Page 3 "Interaction Between NEW BGP Speakers"<br>Note: For AS4_PATH attribute | | | | | | | | |
| | `Interaction Between NEW BGP Speakers`<br>`The new attributes, AS4_PATH and AS4_AGGREGATOR SHOULD NOT be carried`<br>`in the UPDATE messages between NEW BGP peers.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-3.2<br>**SHOULD** | RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers<br>Note: For AS4_AGGREGATOR attribute | | | | | | | | |
| | `Interaction Between NEW BGP Speakers`<br>`The new attributes, AS4_PATH and AS4_AGGREGATOR SHOULD NOT be carried`<br>`in the UPDATE messages between NEW BGP peers.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-3.3<br>**SHOULD** | NEGATIVE<br>RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers<br>Note: This is for AS4_PATH attribute | | | | | | | | |
| | `Interaction Between NEW BGP Speakers`<br>`A NEW BGP speaker that receives the AS4_PATH and AS4_AGGREGATOR`<br>`path attributes in an UPDATE message from a NEW BGP speaker SHOULD`<br>`discard these path attributes and continue processing`<br>`the UPDATE message.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-3.4<br>**SHOULD** | NEGATIVE<br>RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers<br>Note: This is for AS4_AGGREGATOR attribute | | | | | | | | |
| | `Interaction Between NEW BGP Speakers`<br>`A NEW BGP speaker that receives the AS4_PATH and AS4_AGGREGATOR`<br>`path attributes in an UPDATE message from a NEW BGP speaker SHOULD`<br>`discard these path attributes and continue processing`<br>`the UPDATE message.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-4.1<br>**MUST** | RFC4893 Section 4.2.2 Page 4 "Generating Updates" | | | | | | | | |
| | `Generating Updates (NEW-OLD BGP Speaker)`<br>`When communicating with an OLD BGP speaker, a NEW speaker MUST send`<br>`the AS path information in the AS_PATH attribute encoded with 2-octet`<br>`AS numbers.` | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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 |

| | 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-BGP-AS4-4.2<br>**MUST** | RFC4893 Section 4.2.2 Page 4 "Generating Updates"<br>Note: For AS4_PATH attribute | | | | | | | | |
| | Generating Updates (NEW-OLD BGP Speaker)<br>The NEW speaker MUST also send the AS path information in the<br>AS4_PATH attribute (encoded with 4-octet AS numbers), except<br>for the case where the entire AS path information is composed of<br>2-octet AS numbers only. In this case, the NEW speaker SHOULD NOT<br>send the AS4_PATH attribute. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-4.3<br>**MUST** | RFC4893 Section 4.2.2 Page 4 "Generating Updates" | | | | | | | | |
| | Generating Updates (NEW-OLD BGP Speaker)<br>In the AS_PATH attribute encoded with 2-octet AS numbers, non-mappable<br>4-octet AS numbers are represented by the well-known 2-octet AS number,<br>AS_TRANS. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-4.4<br>**MUST** | RFC4893 Section 4.2.2 Page 4 "Generating Updates" | | | | | | | | |
| | Generating Updates (NEW-OLD BGP Speaker)<br>Similarly, if the NEW speaker has to send the AGGREGATOR attribute,<br>and if the aggregating Autonomous System"s AS number is truly 4-octets,<br>then the speaker constructs the AS4_AGGREGATOR attributes by taking<br>the attribute length and attribute value from the AGGREGATOR attribute<br>and placing them into the attribute length and attribute value<br>of the AS4_AGGREGATOR attribute, and sets the AS number field<br>in the existing AGGREGATOR attribute to the reserved AS number,<br>AS_TRANS. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-4.5<br>**SHOULD** | RFC4893 Section 4.2.2 Page 4 "Generating Updates" | | | | | | | | |
| | Generating Updates (NEW-OLD BGP Speaker)<br>Note that if the AS number is 2-octets only, then the AS4_AGGREGATOR<br>attribute SHOULD NOT be sent. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass |
| | FreeBSD 10.3: 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-BGP-AS4-5.1<br>**MUST** | RFC4893 Section 4.2.3 Page 4 "Processing Received Updates" | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>If the AS4_PATH attribute is also received, both the attributes<br>will be used to construct the exact AS path information, and<br>therefore the information carried by both the attributes will be<br>considered for AS path loop detection. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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 |

| | 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-BGP-AS4-5.2<br>**MUST** | RFC4893, Section 4.2.3 Page 5 "Processing Received Updates"<br>Note: This is for testing ignored AS4_PATH attribute | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>When both the attributes are received, if the AS number in the<br>AGGREGATOR attribute is not AS_TRANS, then:<br>- the AS4_AGGREGATOR attribute and the AS4_PATH attribute SHALL<br>be ignored<br>- the AS_PATH attribute SHALL be taken as the AS path information. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-5.3<br>**MUST** | RFC4893, Section 4.2.3 Page 5 "Processing Received Updates" | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>- the AGGREGATOR attribute SHALL be taken as the information<br>about the aggregating node | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-5.4<br>**MUST** | RFC4893 Section 4.2.3 Page 5 "Processing Received Updates" | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>Otherwise,<br>- the AGGREGATOR attribute SHALL be ignored,<br>- the AS4_AGGREGATOR attribute SHALL be taken as the information<br>about the aggregating node | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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-BGP-AS4-5.5<br>**MUST** | RFC4893 Section 4.2.3 Page 6 "Processing Received Updates" | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>If the number of AS numbers in the AS_PATH attribute is less than the<br>number of AS numbers in the AS4_PATH attribute, then the AS4_PATH<br>attribute SHALL be ignored, and the AS_PATH attribute SHALL be taken<br>as the AS path information. | | | | | | | | |
| | 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-BGP-AS4-5.6<br>**MUST** | RFC4893 Section 4.2.3 Page 6 "Processing Received Updates" | | | | | | | | |
| | Processing Received Updates (OLD-NEW BGP Speakers)<br>If the number of AS numbers in the AS_PATH attribute is larger than<br>or equal to the number of AS numbers in the AS4_PATH attribute, then<br>the AS path information SHALL be constructed by taking as many AS<br>numbers and path segments as necessary from the leading part of the<br>AS_PATH attribute, and then prepending them to the AS4_PATH attribute<br>so that the AS path information has an identical number of AS numbers<br>as the AS_PATH attribute. | | | | | | | | |
| | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | Ubuntu 16.04: pass | 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 |