



	Release	Release	Release	Release	Release	Release	Release	Release	Release	Master			
	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	5.0	5.0.1	6.0	2018-10-24			
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR			
Commit ID	3e71b5d	f633dc2	36a7e78	30283fd	5dff4ec	7a377a1	ed02df4	85f25d8	c8c2427	0558dc6			
Commit Date	2017-04-02	2017-10-14	2017-11-08	2017-11-08	2018-01-09	2018-03-12	2018-06-08	2018-07-05	2018-10-08	2018-10-24			
ANVL-BGP-AS4-	Setup Verificatio	n											
1.1	Setup Verification Tests												
MUST	Bring up BGP4 Connection using 4-Octet AS capapbillity												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4-	RFC4893 Section	RFC4893 Section 3 Page 2 "Protocol Extensions"											
MUST	Protocol Extensions The Capability that is used by a BGP speaker to convey to its BGP peer the 4-octet Autonomous System number capability, also carries the 4-octet Autonomous System number of the speaker in the Capability Value field of the Capability Optional Parameter.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4-	RFC4893 Section	on 3 Page 2 "Proto	col Extensions"										
2.2 MUST	Protocol Ex The Capabil		n field of t	he Capabilit	y is set to	4.							
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			





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	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	5.0	5.0.1	6.0	2018-10-24		
ANVL-BGP-AS4-	RFC4893 Section 3 Page 2 "Protocol Extensions"											
2.3 MUST	Protocol Extensions NEW BGP speakers carry AS path information expressed in terms of 4-octet Autonomous Systems numbers by using the existing AS_PATH attribute, except that each AS number in this attribute is encoded not as a 2-octet, but as a 4-octet entity.											
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass		
ANVL-BGP-AS4-	RFC4893 Section	RFC4893 Section 3 Page 2 "Protocol Extensions"										
2.4 MUST	Protocol Extensions The same applies to the AGGREGATOR attribute - NEW BGP speakers use the same attribute, except that the AS carried in this attribute is encoded as a 4-octet entity.											
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass		
ANVL-BGP-AS4- 2.5		on 3 Page 2 "Proto heck for the flags										
MUST	Protocol Extensions To preserve AS path information with 4-octet AS numbers across OLD BGP speakers, this document defines a new AS path attribute, called AS4_PATH.This is an optional transitive attribute that contains the AS path encoded with 4-octet AS numbers.											
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass		





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ANVL-BGP-AS4- 2.6		on 3 Page 2 "Proto heck for the value									
MUST	Protocol Extensions To preserve AS path information with 4-octet AS numbers across OLD BGP speakers, this document defines a new AS path attribute, called AS4_PATH.This is an optional transitive attribute that contains the AS path encoded with 4-octet AS numbers.										
	Ubuntu 16.04: passUbuntu 16.04: pass										
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	
ANVL-BGP-AS4- 2.7		FC4893 Section 3 Page 3 "Protocol Extensions" ote: Here we check the attribute flags									
MUST	Protocol Extensions Similarly, this document defines a new aggregator attribute called 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	Ubuntu 16.04: FAIL	
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	
ANVL-BGP-AS4- 2.8		on 3 Page 3 "Proto heck the attribute									
MUST		ttensions this documer ATOR, which			tor attribut	e called					
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	





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ANVL-BGP-AS4-	RFC4893 Section 3 Page 3 "Protocol Extensions"											
2.9 MUST	Protocol Extensions We denote this special AS number as AS_TRANS for ease of description in the rest of this specification. This AS number is also placed in the "My Autonomous System" field of the OPEN message originated by a NEW BGP speaker, if the speaker does not have a (globally unique) 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	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-BGP-AS4- 3.1		FC4893 Section 4.1 Page 3 "Interaction Between NEW BGP Speakers" ote: For AS4_PATH attribute										
SHOULD	The new att	Between NEW ributes, AS4 TE messages	${ t L}_{ t PATH} \ { t and} \ { t At}$	S4_AGGREGATO	R SHOULD NOT	be carried						
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-BGP-AS4- 3.2		4.1, Page 3, Intera		EW BGP Speakers	5							
SHOULD	The new att	Between NEW ributes, AS4 TE messages	${ t l}_{ t PATH} \stackrel{ ext{and}}{ t and} { t At}$	S4_AGGREGATO	R SHOULD NOT	be carried						
	UbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntu16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass											
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	5.0	5.0.1	6.0	2018-10-24			
ANVL-BGP-AS4- 3.3	NEGATIVE RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers Note: This is for AS4_PATH attribute												
SHOULD	Interaction Between NEW BGP Speakers A NEW BGP speaker that receives the AS4_PATH and AS4_AGGREGATOR path attributes in an UPDATE message from a NEW BGP speaker SHOULD discard these path attributes and continue processing the UPDATE message.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4- 3.4	NEGATIVE RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers Note: This is for AS4_AGGREGATOR attribute												
SHOULD	Interaction Between NEW BGP Speakers A NEW BGP speaker that receives the AS4_PATH and AS4_AGGREGATOR path attributes in an UPDATE message from a NEW BGP speaker SHOULD discard these path attributes and continue processing the UPDATE message.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4-	RFC4893 Section	on 4.2.2 Page 4 "G	enerating Updates	5"									
4.1 MUST	When commun	Updates (NEV nicating with n information	n an OLD BGP	speaker, a									
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			





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	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	5.0	5.0.1	6.0	2018-10-24			
ANVL-BGP-AS4- 4.2		RFC4893 Section 4.2.2 Page 4 "Generating Updates" Note: For AS4_PATH attribute											
MUST	Generating Updates (NEW-OLD BGP Speaker) The NEW speaker MUST also send the AS path information in the AS4_PATH attribute (encoded with 4-octet AS numbers), except for the case where the entire AS path information is composed of 2-octet AS numbers only. In this case, the NEW speaker SHOULD NOT send the AS4_PATH attribute.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4-	RFC4893 Section	on 4.2.2 Page 4 "G	enerating Updates	S"									
4.3 MUST	Generating Updates (NEW-OLD BGP Speaker) In the AS_PATH attribute encoded with 2-octet AS numbers, non-mappable 4-octet AS numbers are represented by the well-known 2-octet AS number, AS_TRANS.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			
ANVL-BGP-AS4-	RFC4893 Section	on 4.2.2 Page 4 "G	enerating Updates	8"									
4.4 MUST	Generating Updates (NEW-OLD BGP Speaker) Similarly, if the NEW speaker has to send the AGGREGATOR attribute, and if the aggregating Autonomous System"s AS number is truly 4-octets, then the speaker constructs the AS4_AGGREGATOR attributes by taking the attribute length and attribute value from the AGGREGATOR attribute and placing them into the attribute length and attribute value of the AS4_AGGREGATOR attribute, and sets the AS number field in the existing AGGREGATOR attribute to the reserved AS number, AS TRANS.												
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu			
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass			





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ANVL-BGP-AS4-	RFC4893 Section 4.2.2 Page 4 "Generating Updates"											
4.5 SHOULD	Generating Updates (NEW-OLD BGP Speaker) Note that if the AS number is 2-octets only, then the AS4_AGGREGATOR 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	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-BGP-AS4-	RFC4893 Section	n 4.2.3 Page 4 "P	rocessing Receive	ed Updates"								
5.1 MUST	Processing Received Updates (OLD-NEW BGP Speakers) If the AS4_PATH attribute is also received, both the attributes will be used to construct the exact AS path information, and therefore the information carried by both the attributes will be 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	Ubuntu 16.04: pass		
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		
ANVL-BGP-AS4- 5.2		on 4.2.3 Page 5 "F testing ignored AS		ed Updates"								
MUST	When both t AGGREGATOR - the AS4_ be ignored	be ignored										
	UbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntuUbuntu16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass16.04: pass											
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass		





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	2.0	3.0	2.0.2	3.0.2	3.0.3	4.0	5.0	5.0.1	6.0	2018-10-24		
ANVL-BGP-AS4-	RFC4893, Section 4.2.3 Page 5 "Processing Received Updates"											
5.3 MUST	Processing Received Updates (OLD-NEW BGP Speakers) - the AGGREGATOR attribute SHALL be taken as the information about the aggregating node											
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass		
ANVL-BGP-AS4- 5.4	RFC4893 Section	n 4.2.3 Page 5 "P	rocessing Receive	ed Updates"								
MUST	Otherwise, - the AGGR - the AS4_	·										
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass	16.04: pass		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass		
ANVL-BGP-AS4-	RFC4893 Section	n 4.2.3 Page 6 "P	rocessing Receive	d Updates"								
5.5 MUST	If the number of A	Processing Received Updates (OLD-NEW BGP Speakers) If the number of AS numbers in the AS_PATH attribute is less than the number of AS numbers in the AS4_PATH attribute, then the AS4_PATH attribute SHALL be ignored, and the AS_PATH attribute SHALL be taken as the AS path information.										
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu		
	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL	16.04: FAIL		
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD		
	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL		





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ANVL-BGP-AS4-	RFC4893 Section	RFC4893 Section 4.2.3 Page 6 "Processing Received Updates"											
5.6 MUST	If the number or equal to the AS path numbers and AS_PATH att so that the	Processing Received Updates (OLD-NEW BGP Speakers)  If the number of AS numbers in the AS_PATH attribute is larger than or equal to the number of AS numbers in the AS4_PATH attribute, then the AS path information SHALL be constructed by taking as many AS numbers and path segments as necessary from the leading part of the AS_PATH attribute, and then prepending them to the AS4_PATH attribute so that the AS path information has an identical number of AS numbers as the AS PATH attribute.											
	Ubuntu 16.04: pass												
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass			