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	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0.2	3.0.2	3.0.3	4.0	5.0.1	6.0	2019-02-24	7.0		
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR		
Commit ID	36a7e78	30283fd	5dff4ec	7a377a1	85f25d8	c8c2427	5a80b8c	10d4945		
Commit Date	2017-11-08	2017-11-08	2018-01-09	2018-03-12	2018-07-05	2018-10-08	2019-02-24	2019-03-01		
ANVL-BGP-	Setup Verificati	on								
AS4-1.1 MUST		fication Te GP4 Connect		l-Octet AS o	capapbiility	?				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP- AS4-2.1	RFC4893 Secti	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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP-	RFC4893 Secti	ion 3 Page 2 "Pro	otocol Extensions	8"						
AS4-2.2 MUST	Protocol E The Capabi	xtensions lity Leng	th field of	the Capabi	llity is set	to 4.				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0	Master 2019-02-24	Release 7.0		
ANVL-BGP-	RFC4893 Section 3 Page 2 "Protocol Extensions"									
AS4-2.3	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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP-	RFC4893 Secti	on 3 Page 2 "Pro	otocol Extensions	5"						
AS4-2.4 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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP- AS4-2.5		on 3 Page 2 "Pro check for the flag		5"						
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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		





	Release	Release	Release	Release	Release	Release	Master	Release		
	2.0.2	3.0.2	3.0.3	4.0	5.0.1	6.0	2019-02-24	7.0		
ANVL-BGP- AS4-2.6		on 3 Page 2 "Pro check for the valu		S"						
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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP- AS4-2.7		RFC4893 Section 3 Page 3 "Protocol Extensions"  Note: Here we check the attribute flags								
MUST	Protocol Extensions Similarly, this document defines a new aggregator attribute called AS4_AGGREGATOR, which is optional transitive.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: FAIL	12.0: FAIL		
ANVL-BGP- AS4-2.8		on 3 Page 3 "Pro		5"						
MUST		this docum		s a new aggr al transitiv		ribute calle	ed			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		





	Release	Release	Release	Release	Release	Release	Master	Release			
	2.0.2	3.0.2	3.0.3	4.0	5.0.1	6.0	2019-02-24	7.0			
ANVL-BGP- AS4-2.9	RFC4893 Section 3 Page 3 "Protocol Extensions"										
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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			
ANVL-BGP- AS4-3.1	RFC4893 Secti Note: For AS4_	on 4.1 Page 3 "Ir PATH attribute	nteraction Betwe	en NEW BGP Sp	eakers"						
SHOULD	Interaction Between NEW BGP Speakers The new attributes, AS4_PATH and AS4_AGGREGATOR SHOULD NOT be carried in the UPDATE messages between NEW BGP peers.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			
ANVL-BGP- AS4-3.2		i. 4.1, Page 3, Int AGGREGATOR		n NEW BGP Spe	eakers						
SHOULD	The new at	n Between N tributes, A ATE message	S4_PATH and	l AS4_AGGREG	ATOR SHOULI	) NOT be cai	cried				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			





	Release	Release	Release	Release	Release	Release	Master	Release	
	2.0.2	3.0.2	3.0.3	4.0	5.0.1	6.0	2019-02-24	7.0	
ANVL-BGP- AS4-3.3		t. 4.1, Page 3, Int r AS4_PATH attri		n NEW BGP Spe	akers				
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.								
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:	
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested	
	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	
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD	
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass	
ANVL-BGP- AS4-3.4		t. 4.1, Page 3, Int r AS4_AGGREG		n NEW BGP Spe	akers				
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.								
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:	
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested	
	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	
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD	
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass	
ANVL-BGP- AS4-4.1	RFC4893 Secti	on 4.2.2 Page 4	"Generating Upd	ates"					
MUST	When commu	Updates (N nicating wi h informati	th an OLD E	GP speaker,					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:	
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested	
	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	
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD	
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass	





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0	Master 2019-02-24	Release 7.0		
ANVL-BGP- AS4-4.2	RFC4893 Secti Note: For AS4_	on 4.2.2 Page 4 PATH attribute	"Generating Upd	ates"						
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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP- AS4-4.3	RFC4893 Secti	on 4.2.2 Page 4	"Generating Upd	lates"						
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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP- AS4-4.4	RFC4893 Section 4.2.2 Page 4 "Generating Updates"									
MUST	Similarly, and if the then the s the attrib and placin of the AS4	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.								
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0	Master 2019-02-24	Release 7.0			
ANVL-BGP-	RFC4893 Secti	RFC4893 Section 4.2.2 Page 4 "Generating Updates"									
AS4-4.5 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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			
ANVL-BGP- AS4-5.1	RFC4893 Secti	ion 4.2.3 Page 4	"Processing Rec	eived Updates"							
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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			
ANVL-BGP- AS4-5.2		tion 4.2.3 Page 5 r testing ignored									
MUST	When both AGGREGATOR - the AS4 be ignored	Received U the attribu attribute _AGGREGATOR	tes are rec is not AS_T attribute	eived, if t TRANS, then: and the AS4	the AS numbe	bute SHALL	on.				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:			
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested			
	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			
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD			
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass			





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0	Master 2019-02-24	Release 7.0		
ANVL-BGP-	RFC4893, Section 4.2.3 Page 5 "Processing Received Updates"									
AS4-5.3	Processing Received Updates (OLD-NEW BGP Speakers) - the AGGREGATOR attribute SHALL be taken as the information about the aggregating node									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP-	RFC4893 Secti	on 4.2.3 Page 5	"Processing Red	eived Updates"						
AS4-5.4 MUST	Processing Received Updates (OLD-NEW BGP Speakers) Otherwise, - the AGGREGATOR attribute SHALL be ignored, - the AS4_AGGREGATOR attribute SHALL be taken as the information about the aggregating node									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: pass	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: pass	12.0: pass		
ANVL-BGP-	RFC4893 Section 4.2.3 Page 6 "Processing Received Updates"									
AS4-5.5	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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD 10.3:	FreeBSD 10.3:		
	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	10.3: FAIL	untested	untested		
	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		
	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD 12.0:	FreeBSD	FreeBSD		
	untested	untested	untested	untested	untested	untested	12.0: FAIL	12.0: FAIL		





	Release 2.0.2	Release 3.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0	Master 2019-02-24	Release 7.0		
ANVL-BGP- AS4-5.6	RFC4893 Secti	FC4893 Section 4.2.3 Page 6 "Processing Received Updates"								
MUST	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.									
	THEEDOD   THEEDOD   THEEDOD   THEEDOD   THEEDOD							FreeBSD 10.3: untested		
Ubuntu 16.04: pass							Ubuntu 16.04: pass	Ubuntu 16.04: pass		
	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: pass	FreeBSD 12.0: pass		