



	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR				
Commit ID	99477bc	62ac43d	86a5e5a	933b834	7a2b85a	61ba3a4	852b11e				
Commit Date	2022-11-03	2023-01-10	2023-03-13	2023-03-16	2023-04-23	2023-06-14	2023-11-22				
ANVL-BGPPLUS-	Setup Verification										
AS4-1.1 <b>MUST</b>	-	fication Tea GP4 Connect:	sts ion using 4-	-Octet AS ca	apapbiility						
	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested				
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass				
ANVL-BGPPLUS-	RFC4893 Secti	on 3 Page 2 "Pro	tocol Extensions"								
AS4-2.1 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 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested				
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass				
ANVL-BGPPLUS-	RFC4893 Section 3 Page 2 "Protocol Extensions"										
AS4-2.2 MUST	Protocol E The Capabi		th field of	the Capabil	lity is set	to 4.					
	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass				
	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: untested	Ubuntu 18.04: untested				
	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: untested	Debian 12: pass	Debian 12: pass	Debian 12: pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS- AS4-2.3	RFC4893 Section 3 Page 2 "Protocol Extensions"										
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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-2.4	RFC4893 Section	on 3 Page 2 "Pro	tocol Extensions"								
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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-2.5		on 3 Page 2 "Procheck for the flags	tocol Extensions" s only								
MUST	BGP speake: AS4_PATH.Tl	e AS path in rs, this doo nis is an op	cument defir	nes a new AS nsitive attr	3 path attri	across OLD bute, called contains the					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS- AS4-2.6		RFC4893 Section 3 Page 2 "Protocol Extensions"  Note: Here we check for the value in the field									
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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- 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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-2.8		on 3 Page 3 "Procheck the attribute									
MUST		this docume		a new aggre l transitive		bute called					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS-	RFC4893 Section 3 Page 3 "Protocol Extensions"										
AS4-2.9 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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-3.1	RFC4893 Section Note: For AS4_		teraction Betwee	n NEW BGP Spe	akers"						
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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-3.2		on 3 Page 3 "Prof AGGREGATOR a	tocol Extensions" attribute								
SHOULD	The new at	tributes, AS				NOT be carri	ed				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS- 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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- 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.										
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-4.1	RFC4893 Section	on 4.2.2 Page 4 "	Generating Upda	ites"							
MUST	When commu	h informatio	th an OLD BO	GP speaker,		er MUST sended with 2-oct					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21			
ANVL-BGPPLUS- AS4-4.2	RFC4893 Section Note: For AS4_	on 4.2.2 Page 4 " PATH attribute	Generating Upda	ites"						
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			
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass			
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:			
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested			
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:			
	untested	untested	untested	untested	pass	pass	pass			
ANVL-BGPPLUS- AS4-4.3	RFC4893 Section	on 4.2.2 Page 4 "	Generating Upda	ates"						
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			
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass			
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:			
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested			
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:			
	untested	untested	untested	untested	pass	pass	pass			
ANVL-BGPPLUS- AS4-4.4	RFC4893 Section	on 4.2.2 Page 4 "	Generating Upda	ites"						
MUST	Similarly, and if the then the si the attrib and placing of the AS4	aggregating peaker const ute length a g them into _AGGREGATOR	speaker has a Autonomous tructs the Autoribut the attribut attribute,	to send the System's AS4_AGGREGAT	AS number is FOR attribut om the AGGRE and attribut ne AS number	field				
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass			
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:			
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested			
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:			
	untested	untested	untested	untested	pass	pass	pass			





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS- AS4-4.5	RFC4893 Section 4.2.2 Page 4 "Generating Updates"										
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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-5.1	RFC4893 Section	on 4.2.3 Page 4 "	Processing Rece	ived 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				
	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: FAIL	18.04: FAIL	18.04: FAIL	18.04: FAIL	18.04: FAIL	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-5.2		ion 4.2.3 Page 5 testing ignored A									
MUST	When both AGGREGATOR - the AS4 be ignored	the attribute attribute :_ _AGGREGATOR	tes are rece is not AS_TF attribute a	and the AS4_	e AS number PATH attrib						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21				
ANVL-BGPPLUS- AS4-5.3	RFC4893, Section 4.2.3 Page 5 "Processing Received Updates"										
MUST	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				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS- AS4-5.4	RFC4893 Section	on 4.2.3 Page 5 "	Processing Rece	ived Updates"							
MUST	Otherwise, - the AGG - the AS4	REGATOR att	ribute SHALI attribute S	-NEW BGP Spe L be ignored SHALL be tak		nformation					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	pass	pass	pass				
ANVL-BGPPLUS-	RFC4893 Section	on 4.2.3 Page 6 "	Processing Rece	ived Updates"							
AS4-5.5 MUST	If the num number of attribute	ber of AS numbers	umbers in thin the AS4_I	PATH attribu	attribute is ate, then th	less than t e AS4_PATH HALL be take:					
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD				
	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL	12.3: FAIL				
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:				
	18.04: FAIL	18.04: FAIL	18.04: FAIL	18.04: FAIL	18.04: FAIL	untested	untested				
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:				
	untested	untested	untested	untested	FAIL	FAIL	FAIL				





	Release 8.4	Release 8.4.2	Release 8.5	Release 8.4.3	Release 8.5.1	Dev-9.0 2023-06-13	Stable 9.1 @2023-11-21			
ANVL-BGPPLUS- AS4-5.6	RFC4893 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.									
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass			
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:			
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested			
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:			
	untested	untested	untested	untested	pass	pass	pass			
ANVL-BGPPLUS-	draft-ietf-idr-error-handling-01.txt Section 5.1 Page 6 " AGGREGATOR"									
AS4-6.1  MUST	The AGGREG, following a lts length not advert. Its length both advertant UPDATE handled us.	ATOR attribution applies: is not 6 (vised to, or is not 8 (vitised to, and message with ing the appli	when the "4- not receive when the "4- nd received n a malforme roach of "at	considered coctet AS number of from the from the peed AGGREGATC	umber capabi peer [RFC48 umber capabi eer). DR attribute	if any of the lity" is 193]). lity" is	е			
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD			
	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass	12.3: pass			
	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu	Ubuntu 18.04:	Ubuntu 18.04:			
	18.04: pass	18.04: pass	18.04: pass	18.04: pass	18.04: pass	untested	untested			
	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:	Debian 12:			
	untested	untested	untested	untested	pass	pass	pass			