



	Release 2.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Release 7.3	Release 7.5	Release 8.0	Release 8.2.2	Release 8.3	Release 8.4	Release 8.4.1	Release 8.4.2	
Туре	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	FRR	
Commit ID	36a7e78	5dff4ec	7a377a1	85f25d8	33e56da	056c0cd	23db048	c0038fc	13a8efb	9931db7	79188bf	d66a1ca	99477bc	70151e2	62ac43d	
Commit Date	2017-11-08	2018-01-09	2018-03-12	2018-07-05	2019-05-09	2019-05-13	2019-06-18	2020-02-14	2021-02-27	2021-07-21	2022-03-13	2022-07-19	2022-11-03	2022-11-18	2023-01-10	
ANVL- BGPPLUS-	Setup Verific	cation														
AS4-1.1		erification BGP4 Con		using 4-0	Octet AS	capapbiil	.ity									
MUST	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	10.3: pass	10.3: pass	10.3: pass	10.3: pass	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	12.3: 1														
ANVL-	RFC4893 S	ection 3 Page	e 2 "Protocol	Extensions"												
BGPPLUS- AS4-2.1 MUST	The Capa peer the the 4-oc	4-octet tet Auto	nat is us Autonomo nomous Sy	us System	number per of th	capabilit e speaker	evey to it y, also on the (carries	У							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	
ANVL- BGPPLUS-	RFC4893 S	ection 3 Page	e 2 "Protocol	Extensions"												
AS4-2.2	Protocol The Capa	Extension		ield of t	the Capab	ility is	set to 4									
MUST	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	





	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	
	2.0.2	3.0.3	4.0	5.0.1	6.0.3	7.0.1	7.1	7.3	7.5	8.0	8.2.2	8.3	8.4	8.4.1	8.4.2	
ANVL-	RFC4893 S	ection 3 Page	e 2 "Protocol	Extensions"												
BGPPLUS- AS4-2.3 MUST	NEW BGP 4-octet attribut	Autonomo	carry AS us System t that ea	s numbers	by using the best by the best of the best	expresse g the exi his attri	sting AS_	_PATH								
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	
	untested	untested	untested	untested	pass	pass	pass	pass	untested							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	12.3: untested untest														
ANVL- BGPPLUS- AS4-2.4 MUST																
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	
	untested	untested	untested	untested	pass	pass	pass	pass	untested							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass	
ANVL- BGPPLUS-	RFC4893 Section 3 Page 2 "Protocol Extensions" Note: Here we check for the flags only															
AS4-2.5 MUST	To prese BGP spea AS4_PATE	kers, th	ath infor is docume an optic	ent define	es a new . sitive at	et AS num AS path a tribute t	ttribute	, called								
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	
	untested	untested	untested	untested	pass	pass	pass	pass	untested							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass	





	Release 2.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Release 7.3	Release 7.5	Release 8.0	Release 8.2.2	Release 8.3	Release 8.4	Release 8.4.1	Release 8.4.2
ANVL- BGPPLUS-			e 2 "Protocol I the value in th												
AS4-2.6 MUST	To prese BGP spea AS4_PATH	kers, thi	ons ath infor is docume an optio with 4-oc	nt define nal trans	es a new i	AS path a	ttribute	, called							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass
ANVL- BGPPLUS- AS4-2.7	Protocol Extensions Similarly, this document defines a new aggregator attribute called AS4_AGGREGATOR, which is optional transitive.														
MUST															
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested										
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: FAIL	FreeBSD 12.2: FAIL	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: FAIL	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass
ANVL- BGPPLUS- AS4-2.8	Note: Here	we check the	e 3 "Protocol attribute valu												
MUST	Similarl		ons document which is				ttribute	called							
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: untested										
	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	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: FAIL	FreeBSD 12.2: FAIL	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: FAIL	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass





	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release
	2.0.2	3.0.3	4.0	5.0.1	6.0.3	7.0.1	7.1	7.3	7.5	8.0	8.2.2	8.3	8.4	8.4.1	8.4.2
ANVL-	RFC4893 S	ection 3 Page	e 3 "Protocol	Extensions"											
BGPPLUS- AS4-2.9 MUST	We denot in the r in the r by a NEW	est of the My Auton	pecial AS his speci omous Sys aker, if	fication.tem" fiel	. This A ld of the	NS for ea S number OPEN mes not have	is also p sage orig	placed ginated							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass
ANVL- BGPPLUS-	RFC4893 Section 4.1 Page 3 "Interaction Between NEW BGP Speakers" Note: For AS4_PATH attribute Interaction Between NEW BGP Speakers														
AS4-3.1 SHOULD	The new	attribut		ATH and A	AS4_AGGRE	GATOR SHO	OULD NOT 1	be carrie	d						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass
ANVL- BGPPLUS-	RFC4893 Section 3 Page 3 "Protocol Extensions" Note: For AS4_AGGREGATOR attribute														
AS4-3.2 SHOULD	The new	attribut	een NEW B es, AS4_P ssages be	\overline{ATH} and \overline{B}	AS4_AGGRE	GATOR SHO	OULD NOT 1	be carrie	d						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass





	Release 2.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Release 7.3	Release 7.5	Release 8.0	Release 8.2.2	Release 8.3	Release 8.4	Release 8.4.1	Release 8.4.2	
ANVL- BGPPLUS- AS4-3.3		Sect. 4.1, Pag s for AS4_PA		on Between N	IEW BGP Sp	eakers										
SHOULD	A NEW BO path att discard	P speake: ributes :	r that re in an UPD th attrib	ATE messa	ne AS4_PA' age from a	TH and AS a NEW BGP processi	speaker									
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	12.3: untested														
ANVL- BGPPLUS- AS4-3.4	NEGATIVE RFC4893, Sect. 4.1, Page 3, Interaction Between NEW BGP Speakers Note: This is for AS4_AGGREGATOR attribute Interaction Between NEW BGP Speakers															
SHOULD	A NEW BO path att discard	P speaker ributes	r that re in an UPD th attrib	ceives th ATE messa	ne AS4_PA age from	TH and AS a NEW BGP processi	speaker									
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	
ANVL- BGPPLUS- AS4-4.1	Generati When com	ng Update municati ath info	es (NEW-C ng with a		peaker) P speaker	, a NEW s ribute en			t							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested							
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	





	Release 2.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Release 7.3	Release 7.5	Release 8.0	Release 8.2.2	Release 8.3	Release 8.4	Release 8.4.1	Release 8.4.2
ANVL- BGPPLUS-		ection 4.2.2 F S4_PATH attr		rating Update	es"										
AS4-4.2 MUST	The NEW AS4_PATH for the 2-octet	speaker l I attribu case whe	MUST also te (encod re the en rs only.	OLD BGP Spot send the led with Astronomy In this lite.	e AS path l-octet A path info	S numbers rmation i	s), except s compose	t ed of							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	12.3: untested untest													
ANVL- BGPPLUS-	RFC4893 Section 4.2.2 Page 4 "Generating Updates" Generating Updates (NEW-OLD BGP Speaker) In the AS_PATH attribute encoded with 2-octet AS numbers, non-mappable														
AS4-4.3	In the A	AS_PATH a AS numbe:	ttribute	encoded w	with 2-oc			on-mappab t AS numb							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass
ANVL- BGPPLUS- AS4-4.4	RFC4893 Section 4.2.2 Page 4 "Generating Updates" Generating Updates (NEW-OLD BGP Speaker) Similarly, if the NEW speaker has to send the AGGREGATOR attribute,														
MUST	Similarland if then the the attrand place of the A	y, if the he aggree speaker ribute less ing them as4_AGGREE existing	e NEW spe gating Au construc ngth and into the GATOR att	aker has tonomous ts the AS	to send System"s 4_AGGREG value f te length and sets	AS numbe ATOR attr rom the A and attr the AS nu	er is trui ributes by AGGREGATON ribute val umber fie	ly 4-octe y taking R attribu lue ld							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass





	Release 2.0.2	Release 3.0.3	Release 4.0	Release 5.0.1	Release 6.0.3	Release 7.0.1	Release 7.1	Release 7.3	Release 7.5	Release 8.0	Release 8.2.2	Release 8.3	Release 8.4	Release 8.4.1	Release 8.4.2
ANVL-	RFC4893 S	Section 4.2.2 F	Page 4 "Gene	rating Update	es"										
BGPPLUS- AS4-4.5 SHOULD	Note tha	at if the	es (NEW-C AS numbe NOT be s	r is 2-oc		y, then t	he AS4_A(GGREGATOR							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	12.3: untested untest													
ANVL- BGPPLUS-	RFC4893 Section 4.2.3 Page 4 "Processing Received Updates" Processing Received Updates (OLD-NEW BGP Speakers) If the AS4_PATH attribute is also received, both the attributes														
AS4-5.1	If the A will be therefor	AS4_PATH a used to se the in:		is also the exac carried	received t AS pat by both	, both th h informa	tion, and	£							
	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: FAIL	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	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	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: untested	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: FAIL	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: FAIL	FreeBSD 12.2: FAIL	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: FAIL	FreeBSD 12.3: FAIL	FreeBSD 12.3: FAIL	FreeBSD 12.3: FAIL
ANVL- BGPPLUS-	RFC4893, Section 4.2.3 Page 5 "Processing Received Updates" Note: This is for testing ignored AS4_PATH attribute														
AS4-5.2 MUST	When bot AGGREGAT - the A be ignor	th the attrib COR attrib AS4_AGGREG ced	ved Updat tributes bute is n GATOR att ttribute	are recei ot AS_TRA ribute ar	lved, if ANS, then and the AS	the AS nu : 4_PATH at	tribute S	SHALL							
	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: pass	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested	FreeBSD 10.3: untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: 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	FreeBSD 12.0: pass	FreeBSD 12.0: pass	FreeBSD 12.0: untested						
	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: pass	FreeBSD 12.2: pass	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested	FreeBSD 12.2: untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: untested	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass	FreeBSD 12.3: pass





	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release
	2.0.2	3.0.3	4.0	5.0.1	6.0.3	7.0.1	7.1	7.3	7.5	8.0	8.2.2	8.3	8.4	8.4.1	8.4.2
ANVL- BGPPLUS-	RFC4893, S	Section 4.2.3	Page 5 "Proc	I essing Receiv	ved Updates"										
AS4-5.3	- the A	GGREGATO		es (OLD-N te SHALL e			nformatio	on							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: unpredict	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass
ANVL- BGPPLUS-	RFC4893 S	RFC4893 Section 4.2.3 Page 5 "Processing Received Updates" Processing Received Updates (OLD-NEW BGP Speakers)													
AS4-5.4	Otherwis - the A - the A	e, GGREGATOI S4_AGGREG	R attribu	te SHALL ribute SH	be ignor	ed,	the inform	nation							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested							
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass
ANVL- BGPPLUS-				essing Receiv	•										
AS4-5.5 MUST	If the number of attribut	number of of AS numl e SHALL l	AS numbe bers in t	es (OLD-Ners in the he AS4_PA d, and the n.	AS_PATH ATH attri	attribut bute, the	en the AS4	1_PATH							
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	FAIL	FAIL	FAIL	FAIL	untested	untested	untested	untested							
	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	Ubuntu 16.04: FAIL	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	FAIL	FAIL	FAIL	FAIL	untested	untested	untested	untested	untested	untested	untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	FAIL	FAIL	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL	Ubuntu 18.04: FAIL
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	FAIL	FAIL	FAIL	FAIL





	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release	Release
	2.0.2	3.0.3	4.0	5.0.1	6.0.3	7.0.1	7.1	7.3	7.5	8.0	8.2.2	8.3	8.4	8.4.1	8.4.2
ANVL-	RFC4893 S	Section 4.2.3 F	Page 6 "Proce	essing Receiv	ed Updates"										
BGPPLUS- AS4-5.6 MUST	If the ror equal the AS roumbers AS_PATH so that	number of to the reath informand path attribute the AS pa	ved Updat AS numbe number of rmation S segments e, and th ath infor ttribute.	rs in the AS number HALL be of as neces en preper mation ha	e AS_PATH ers in the constructe ssary from ding them	attribut a AS4_PAT ad by tak the lea to the	H attribuing as mading part	ate, then any AS to of the attribut	e						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass
ANVL-	draft-ietf-idr	-error-handlir	ng-01.txt Sect	ion 5.1 Page	6 " AGGREG	ATOR"									
Revised Update Message Error Handling According to New Draft The AGGREGATOR attribute SHALL be considered malformed if any of the following applies: Its length is not 6 (when the "4-octet AS number capability" is not advertised to, or not received from the peer [RFC4893]). Its length is not 8 (when the "4-octet AS number capability" is both advertised to, and received from the peer). An UPDATE message with a malformed AGGREGATOR attribute SHALL be handled using the approach of "attribute discard". NOTE:This test checks for second condition(Its length is not 8)															
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:	10.3:
	pass	pass	pass	pass	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested
	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: pass	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested	Ubuntu 16.04: untested
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:	12.0:
	untested	untested	untested	untested	pass	pass	pass	pass	untested						
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:	12.2:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	untested	untested	untested	untested
	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: untested	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass	Ubuntu 18.04: pass
	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD	FreeBSD
	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:	12.3:
	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	untested	pass	pass	pass	pass