



Talk

Presented at lightning speed

BGP LARGE

COMMUNITY

DRAFT

<https://tools.ietf.org/html/draft-heiz-idr-large-community-08>



NINE years ago at LINX 57

<http://thomas.mangin.com/data/pdf/LINX 57- Mangin - Leak presentation.pdf>

Still relevant today ...

Among other things, recommend “community filtering”

- tags routes on eBGP inbound (from transit, peer, etc)
- filter on eBGP outbound (no transit routes for peer)

But only if you have a 16 bits ASN

Otherwise sorry: you are doomed...

And you have have been since RFC 4893 in 2007...

TEN years ago

Previous attempts to fix the issue (and feature creep)



Name	Year	Code	Method	Usable size	Document
RFC 1997	1996	8	Opaque	32 bits	5 pages
RFC 4360	2006	16	Structure	48 bits (64-16)	12 pages
RFC 5668	2009	16	Structure	48 bits	5 pages (define RFC 4360)
drah-lange-flexible-bgp-communities	2002-2010	TBD	TLV	BIG	21 pages
draft-raszuk-wide-bgp-communities	2015-2016	TBD	TLV	BIG	26 pages

*Complex, no consensus
never implemented*

When?



Mail Archive

[ldr] One week extension to WGLC for draft-ietf-idr-large-community

"John G. Scudder" <jgs@juniper.net> | Mon, 14 November 2016 09:11 UTC | [Show header](#)

Hi All,

We originally WGLC'd -03. The document is now at -08 as a result of WGLC, RTG-DIR and Document Shepherd review comments. Most of the changes are editorial but there are a couple that rise beyond that level, and I would like to call the WG's attention to them. The ones I've identified are:

BGP LARGE COMMUNITIES

Implementations ..

Vendor	Software	Status	Details
Arista	EOS	Planned	Feature Requested BUG169446
Cisco	IOS XR	✓ Done!	Engineering Release
cz.nic	BIRD	✓ Done!	BIRD 1.6.3 (commit)
ExaBGP	ExaBGP	✓ Done! FIRST OSS IMPLEMENTATION	PR482 COMPLETE patch by JOB
Juniper	Junos OS	Planned	Second Half 2017
MikroTik	RouterOS	Won't Implement Until RFC	Feature Requested 2016090522001073
Nokia	SR OS	Planned	Third Quarter 2017
OpenBSD	OpenBGPD	✓ Done!	OpenBSD 6.1 (commit)
OSRG	GoBGP	✓ Done!	PR1094
rtbrick	Fullstack	Planned	December 2016
Quagga	Quagga	✓ Done!	Patch Provided for 1.1.0 875
VyOS	VyOS	Requested	Feature Requested T143



Job Snijders

11 October at 16:31 · Amsterdam, Netherlands ·

Public Service Announcement, there are now Large BGP Communities beacons in the wild:

Large BGP Communities beacon in the wild

MAILMAN.NANOG.ORG

You, Greg Hankins, Paolo Lucente and 10 others

Like Comment Share



Job Snijders

Yesterday at 11:29 · Amsterdam, Netherlands ·

Eating my own dog food is paying off again. I slapped a Large BGP Community on our home LAN prefix earlier this week. [Marlien](#) commented today "hey, i cant reach this and this website".

It appears that Huawei routers (at least NE40E with VRP 8.100) are entirely ignoring route announcements which have a Large BGP Community path attribute attached.

Not propagating an unknown optional transitive path attribute is one thing, but outright dropping the entire route is a whole other... [See more](#)

Kurtis Lindqvist, Paolo Lucente and 20 others

13 Comments

Like Comment Share

Credits:

<http://largebgpcommunities.net/>

all you need to know is there !

Thank you:

<https://github.com/pierky/bgp-large-communities-playground>

And everyone who supported the draft on the IETF mailing list
(You know who you are – beers are on me Tuesday)

