



The Next Generation of BGP Data Collection Platforms

Thomas Holterbach
University of Strasbourg

*Current
sponsors:*



Joint work with:

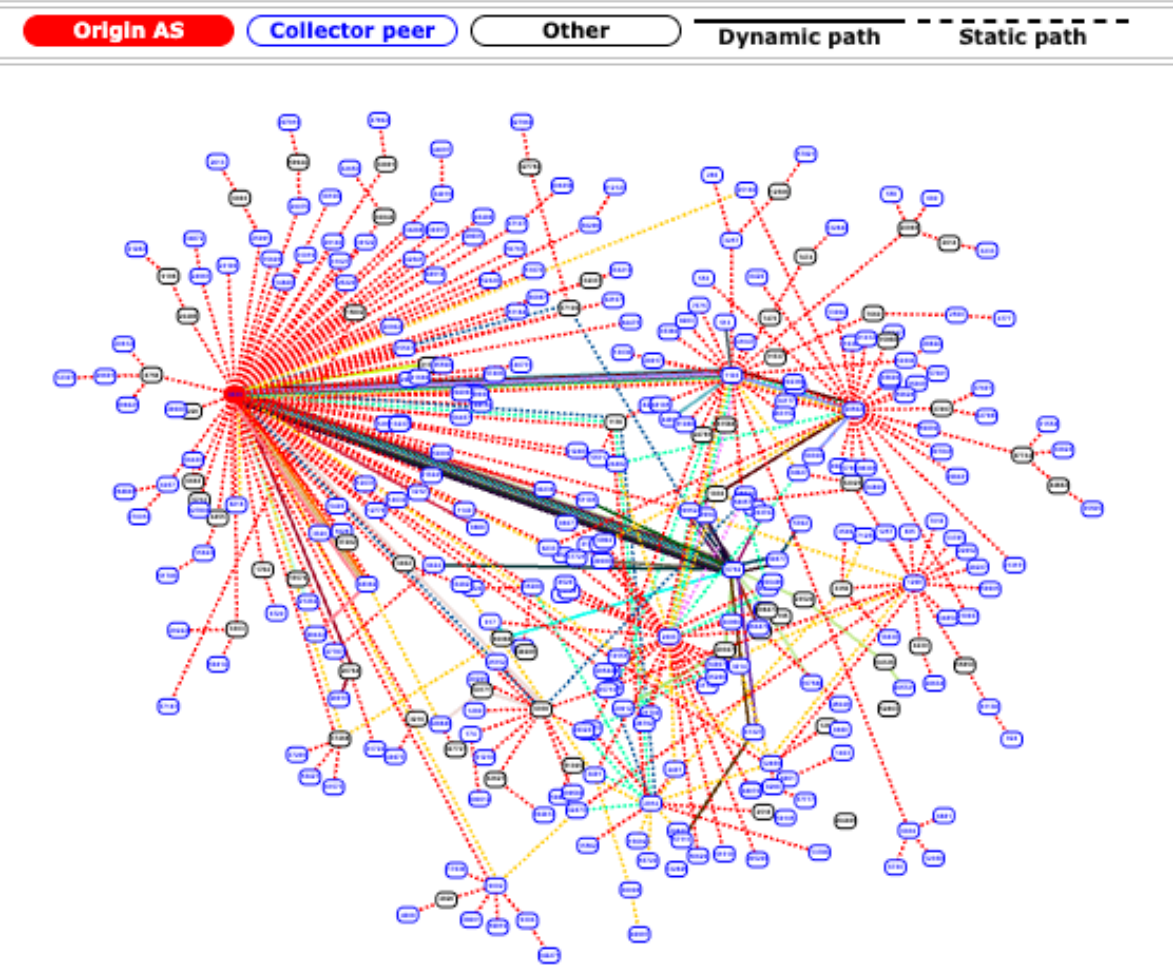
Thomas Alfroy
Cristel Pelsser

The BGP data collected by platforms like RIIS, RouteViews and PCH is essential for understanding and monitoring Internet routing

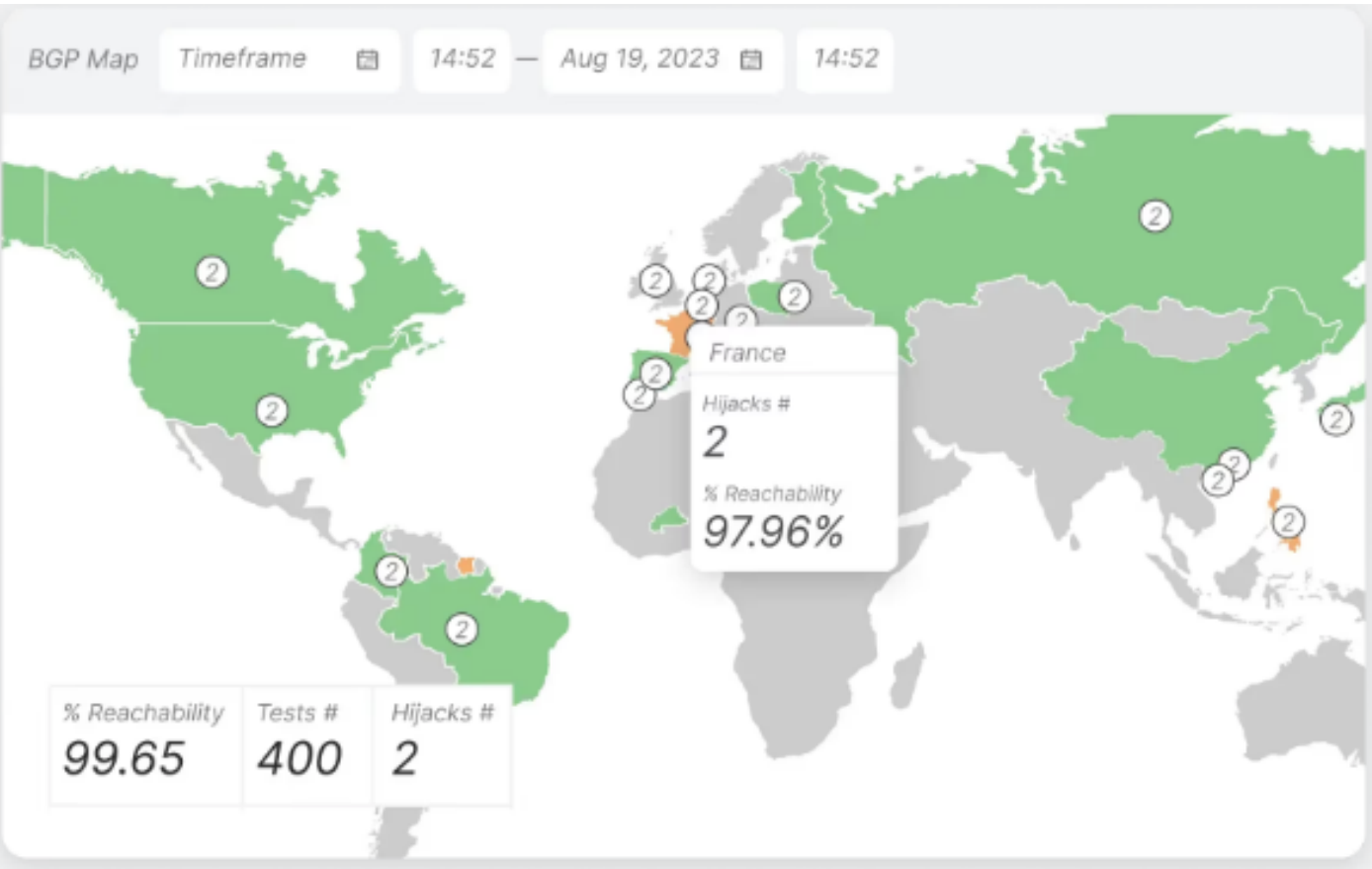
arrangements between ASes.

AS Rank ▲	AS Number ▼	Organization		cone size (ASes) ▼
1	3356	Level 3 Parent, LLC		53982
2	1299	Arelion Sweden AB		41919
3	174	Cogent Communications		37559
4	3257	GTT Communications Inc.		36334
5	2914	NTT America, Inc.		26976
6	6939	Hurricane Electric LLC		21697
7	6762	Telecom Italia S.p.A.		20271
8	6453	TATA COMMUNICATIONS (AMERICA) INC		19334
9	6461	Zayo Bandwidth		18116
10	3491	PCCW Global, Inc.		11530

CAIDA’s AS rank



BGPlay



Catchpoint’s BGP map

Routers that share their BGP routes are like satellites observing the Earth's surface

Each router (or “*vantage point*”) provides a partial view

But together they allow monitoring at larger scale



The three longstanding platforms that collect, archive, and publicly share BGP data are RIPE RIS, RouteViews and PCH



- ▶ RIS and RouteViews collect and store data from ~1500 BGP routers (*a.k.a. "vantage points"*)

bgproutes.io

|

Our new next-gen BGP route collection platform



<https://bgproutes.io>

You can peer with us!

bgproutes.io

Our **new** next-gen BGP route collection platform

We launched it
a year ago



<https://bgproutes.io>
You can peer with us!

BGP data collection platforms typically pursue two main objectives

High coverage

Perpetual data retention

BGP data collection platforms typically pursue two main objectives that are not easily compatible

Priority	
High coverage	Perpetual data retention

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	High coverage	Perpetual data retention
RIPE RIS RouteViews		

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	Priority	
	High coverage	Perpetual data retention
RIPE RIS RouteViews	 They collect data from ~1 % of the ASes	 Data stored since the 2000s

BGP data collection platforms typically pursue two main objectives that are not easily compatible

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RIPE RIS RouteViews		
bgproutes.io		

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RIPE RIS RouteViews		
bgproutes.io		

Our goal is to have accurate real-time
and short-term historical monitoring tools

bgproutes.io

Our new **next-gen** BGP route collection platform

- ✓ Collection: High coverage
- ✓ Distribution: Dashboards that link users to the data



<https://bgproutes.io>
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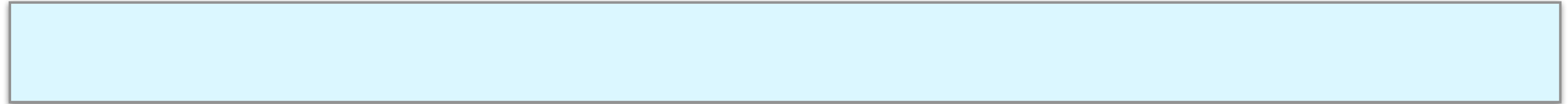
✓ Distribution: Dashboards that link users to the data



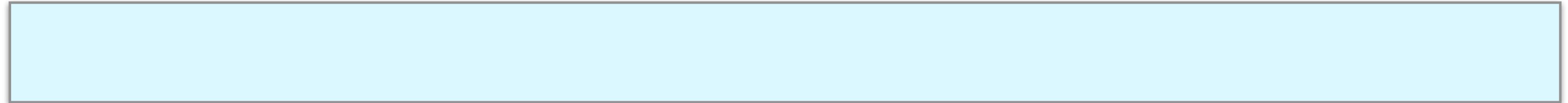
<https://bgproutes.io>
You can peer with us!

bgproutes.io relies on three ingredients to increase its coverage

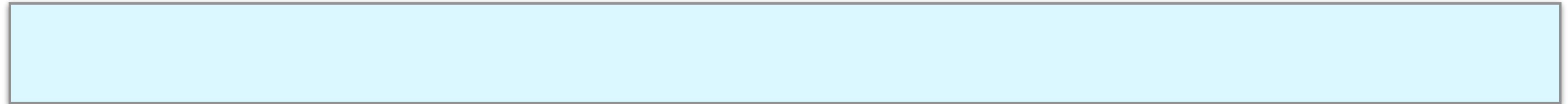
Ingredient #1



Ingredient #2



Ingredient #3



bgproutes.io relies on three ingredients to increase its coverage

Ingredient #1

Automated peering establishment

Ingredient #2

Ingredient #3

bgproutes.io simplifies, automates
and opens BGP data contribution to every ASN

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Network operators can authenticate
using peeringDB

Network operators just have to fill
a form to start peering with bgproutes.io

Step #1: Submit your connection details

Select the VM with whom you want to connect.

185.216.75.11 (USA) ▾

ⓘ We recommend selecting the VM with the lowest latency to your router for more accurate timestamps.

Tell us with which IP address we should start peering.

Your IP address (v4 or v6)

Tell us with which AS number we should start peering.

2200 ▾

Our AS number is **65000**.

ⓘ We will soon make iBGP sessions possible. They will be recommended as updates with the NO_EXPORT community will still be forwarded to our platform through iBGP.

Submit

bgproutes.io relies on three ingredients to increase its coverage

Ingredient #1

Automated peering establishment

Ingredient #2

Data aggregation from all public BGP repositories

Ingredient #3

Our goal is not to compete with existing platforms

Each existing platform has its strengths and weaknesses

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Peering

	RIPE RIS	RouteViews	PCH	CGTF RIS
Physical peering	✓	✓	✓	?
Remote peering	✓	✓	✗	?
Open peering policy	✗	✗	✓	✗

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Peering

	RIPE RIS	RouteViews	PCH	CGTF RIS
Physical peering	✓	✓	✓	?
Remote peering	✓	✓	✗	?
Open peering policy	✗	✗	✓	✗
API to query historical data	✓	✗	✗	✗
Real time stream	✓	✓	✗	✗
Keep all data forever	✓	✓	✓	✓

Data

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Each existing platform has its strengths and weaknesses

Peering

Data

	RIPE RIS	RouteViews	PCH	CGTF RIS	bgproutes.io
Physical peering	✓	✓	✓	?	✗
Remote peering	✓	✓	✗	?	✓
Open peering policy	✗	✗	✓	✗	✓
API to query historical data	✓	✗	✗	✗	✓
Real time stream	✓	✓	✗	✗	✓
Keep all data forever	✓	✓	✓	✓	?

bgproutes.io embraces all existing platforms
by centralizing their data in one unified repository

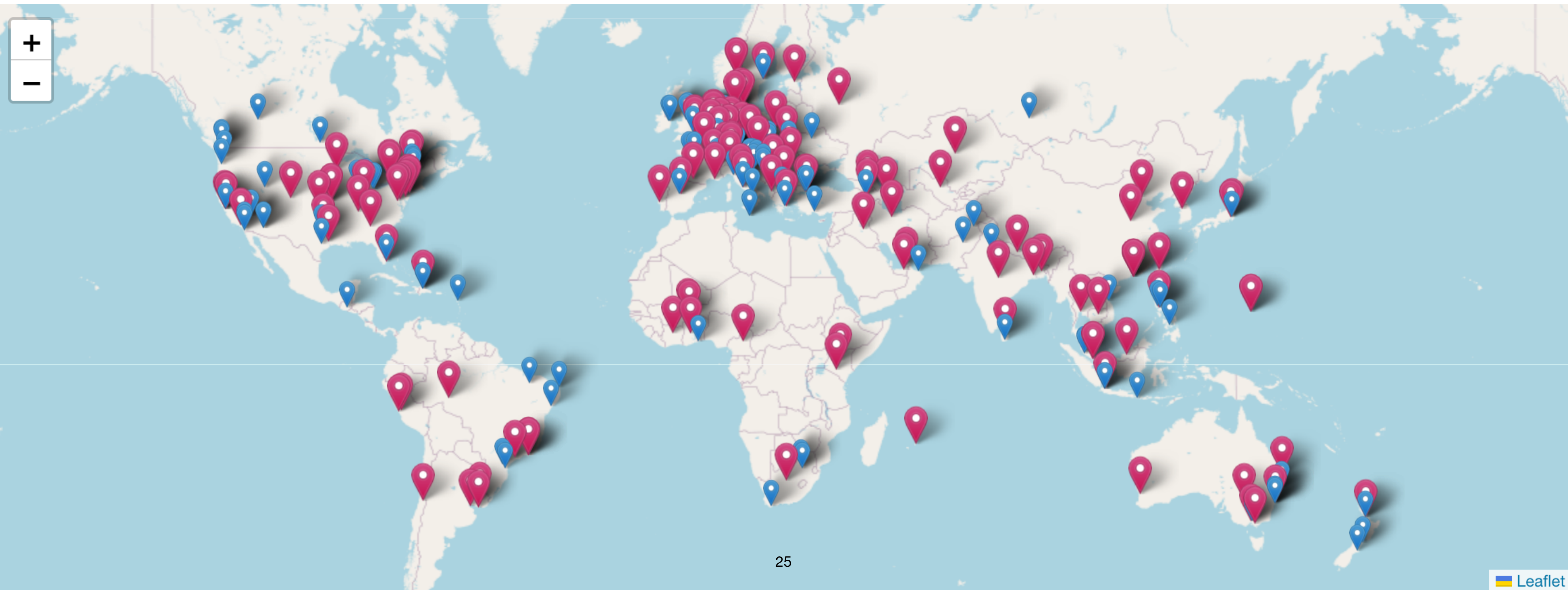
Data providers ⓘ

Name	Number of vantage points	
bgproutes.io	v4: 33	v6: 8
RIPE RIS	v4: 833	v6: 695
RouteViews	v4: 745	v6: 706
PCH	v4: 2150	v6: 397
CGTF RIS	v4: 16	v6: 51

bgproutes.io/vantage_points

bgproutes.io already stores data
for more than 5000 vantage points

bgproutes.io/vantage_points



In Czech Republic, we count seven vantage points

Six connected to RIPE RIS

Three v4, three v6

One connected to bgproutes.io

Mi-Ja Javornik s.r.o. (AS204917) - *Full feeder IPv4 - Thanks!*

 More vantage points in CZ would help

bgproutes.io relies on three ingredients to increase its coverage

Ingredient #1

Automated peering establishment

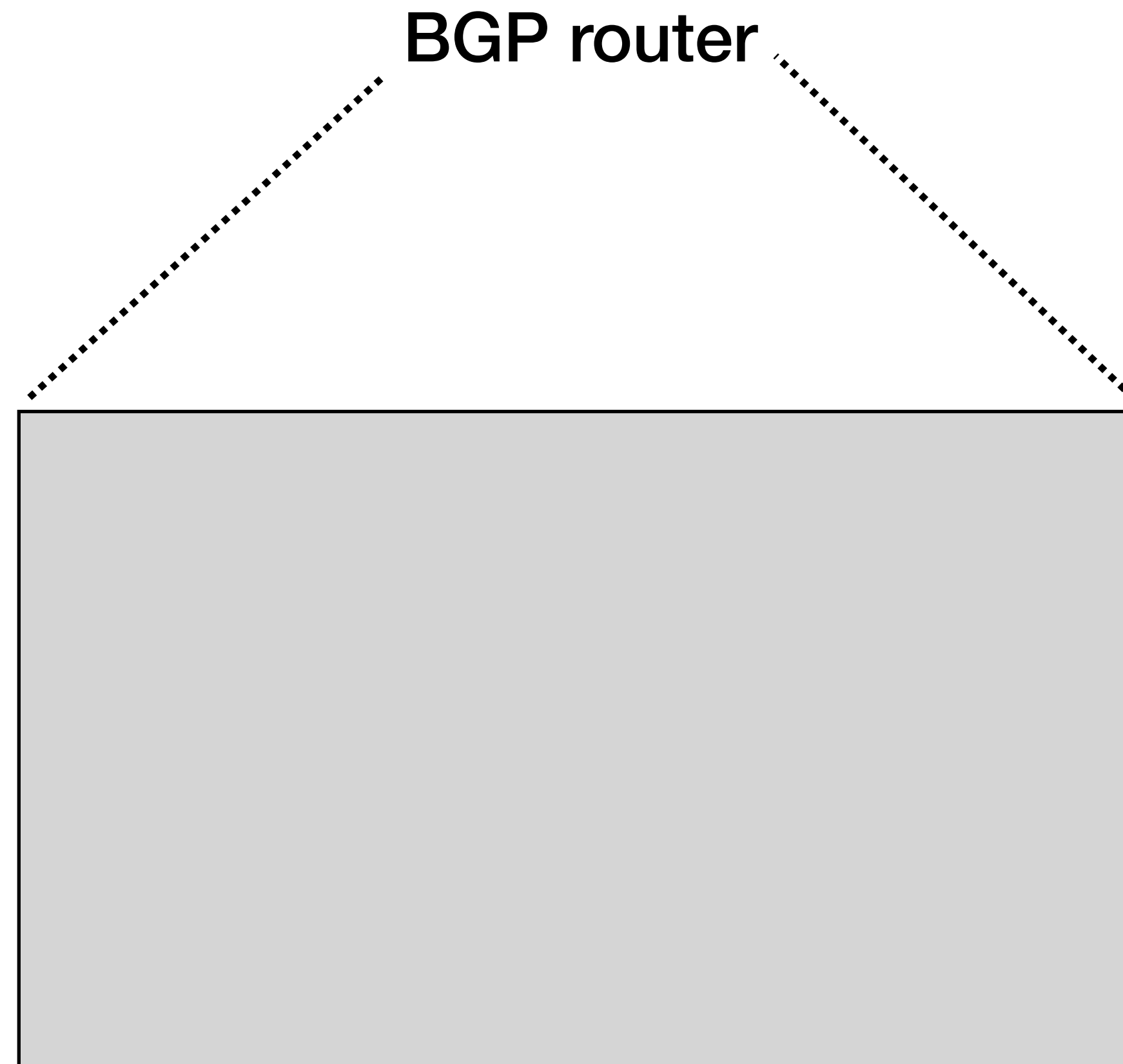
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Data aggregation from all public BGP repositories

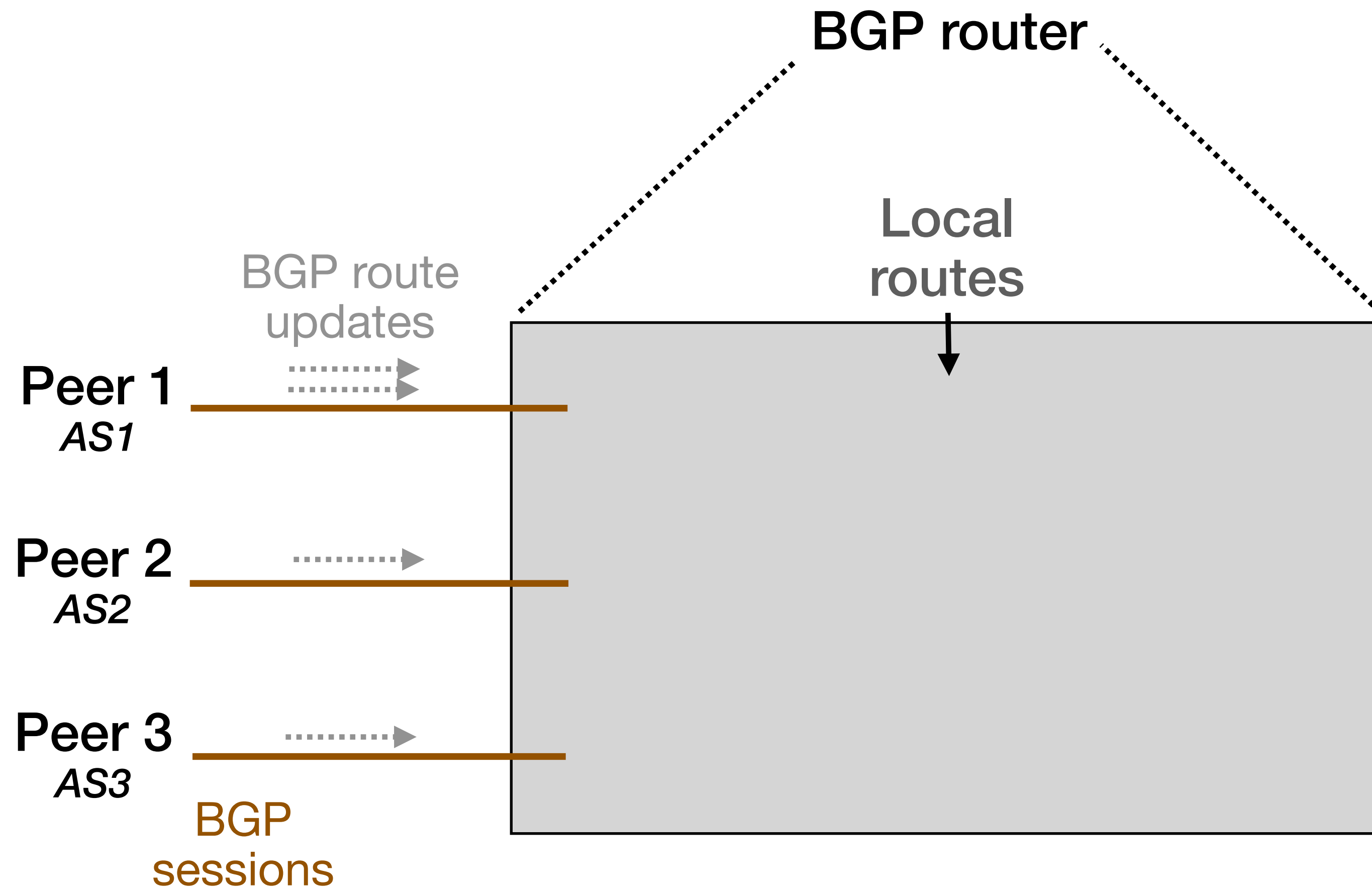
Ingredient #3

BMP

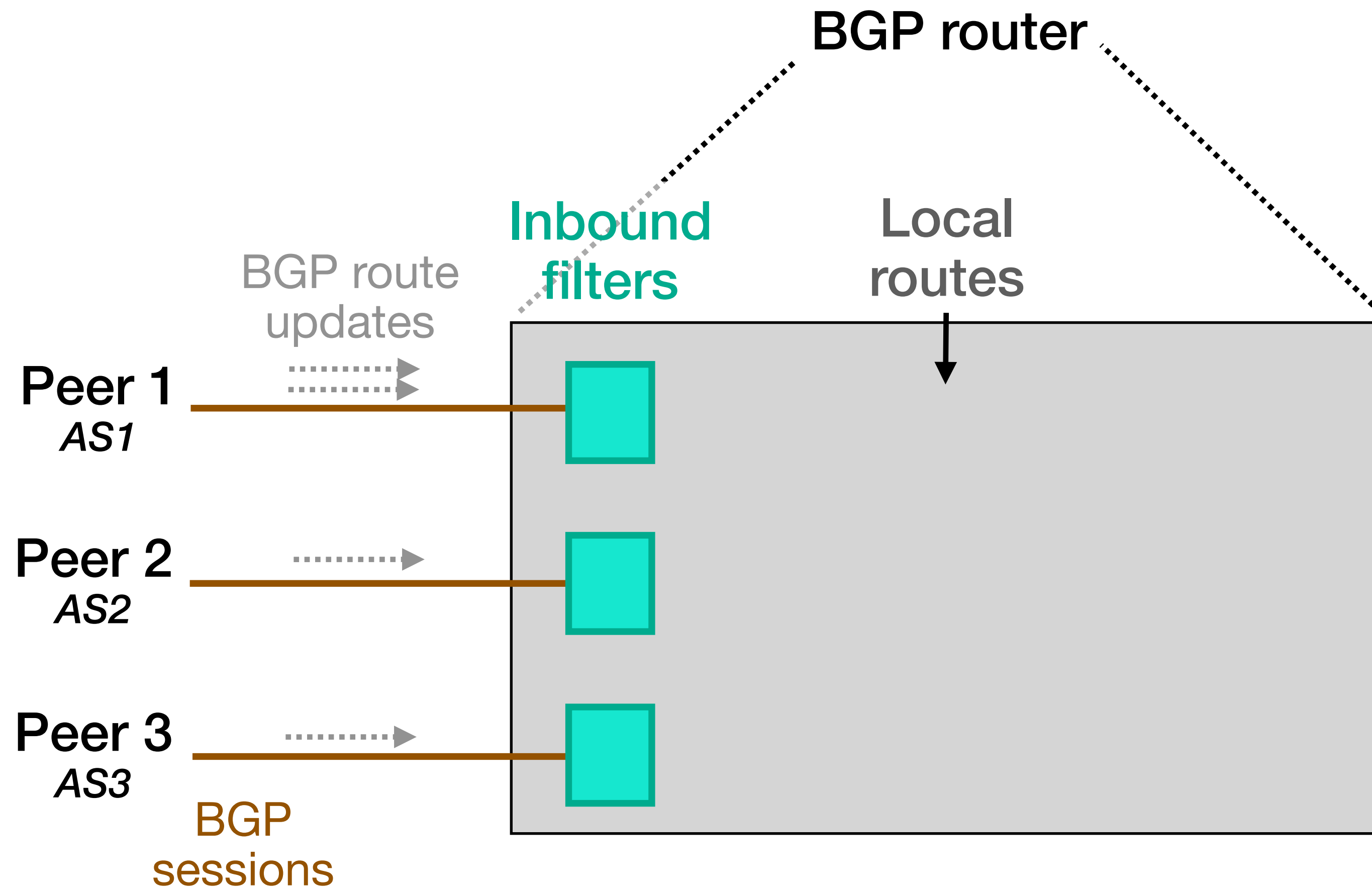
Problem: When an operator shares data via a BGP session, only a small fraction of its routes are visible due to BGP route hiding



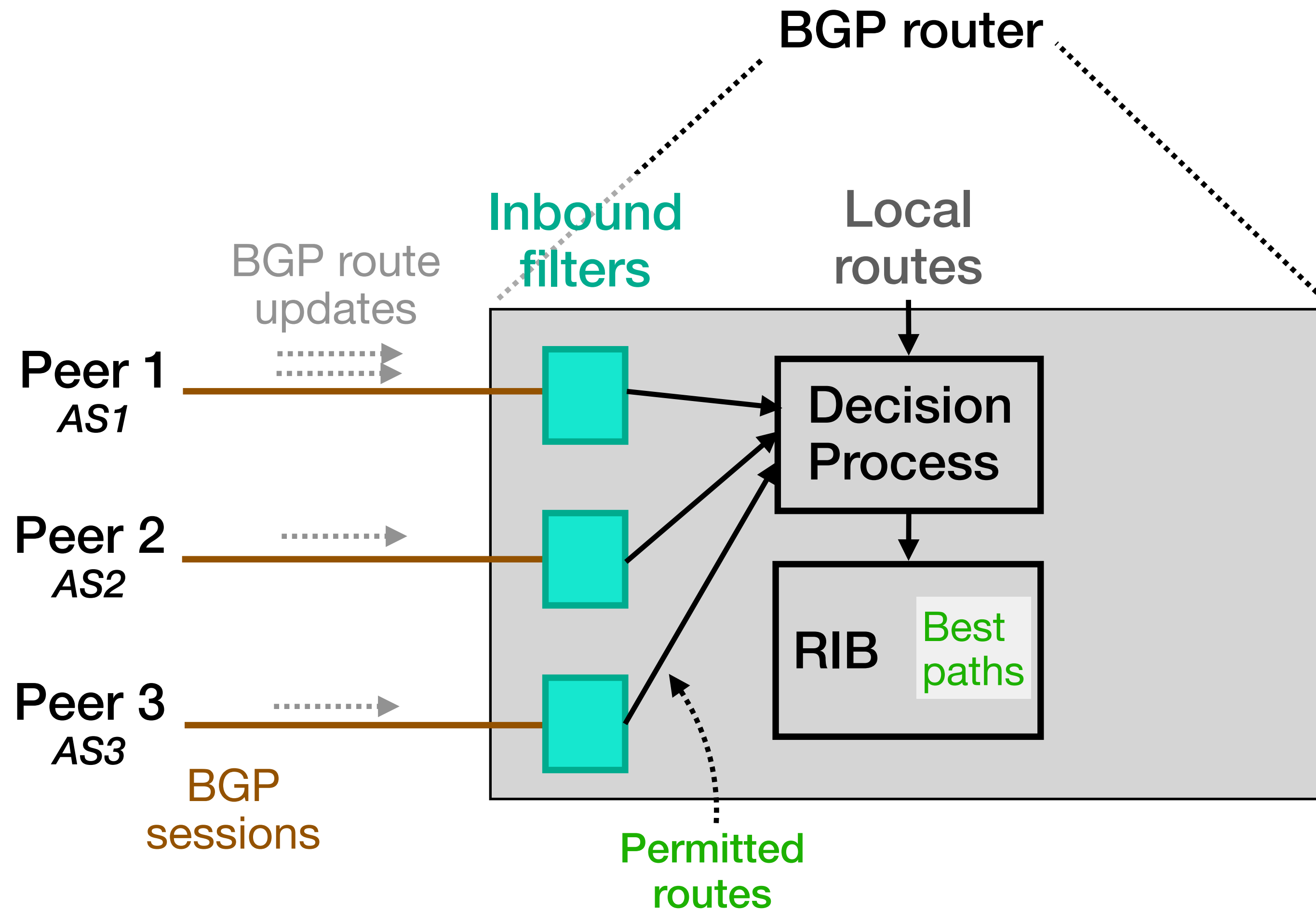
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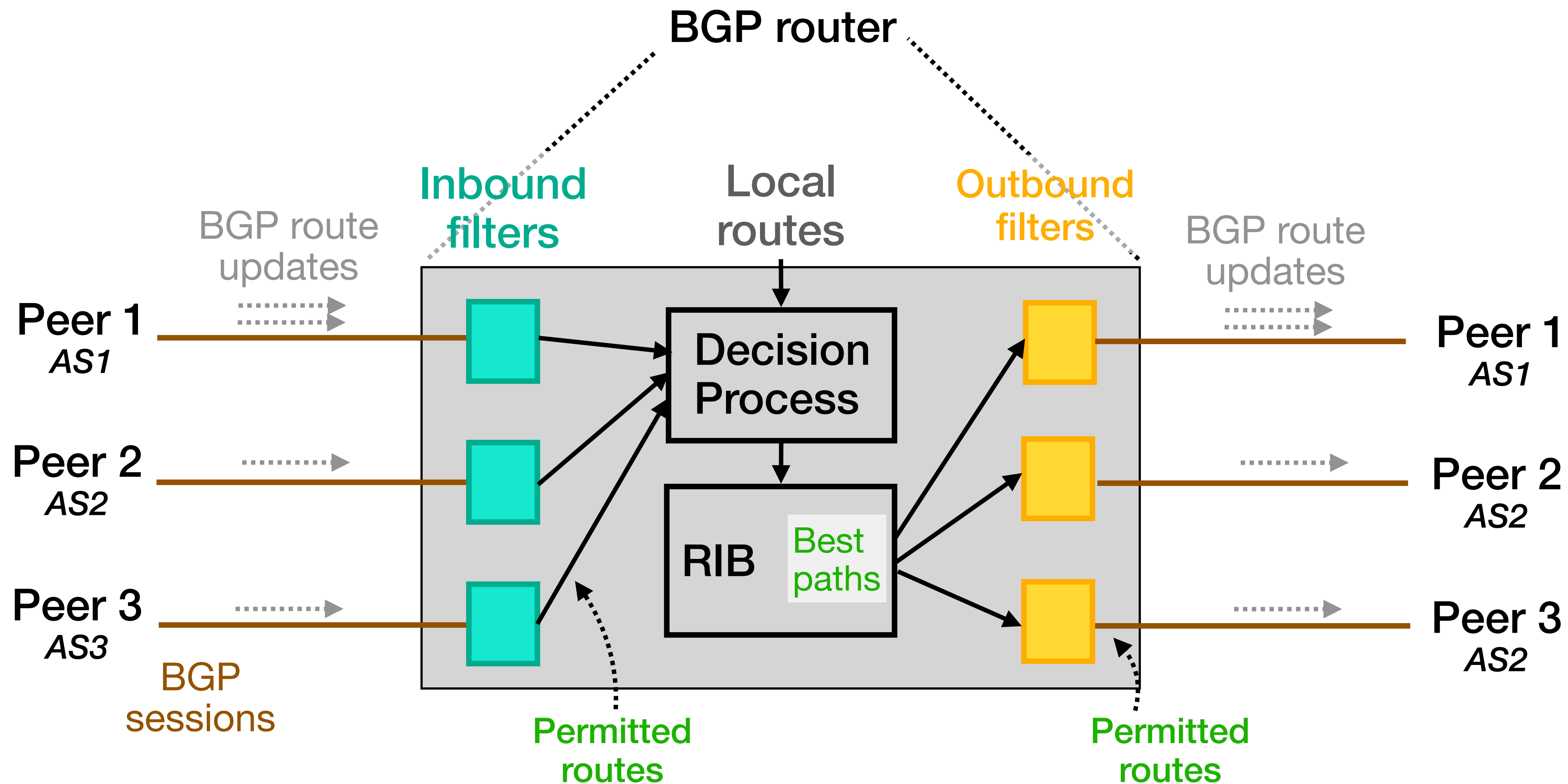
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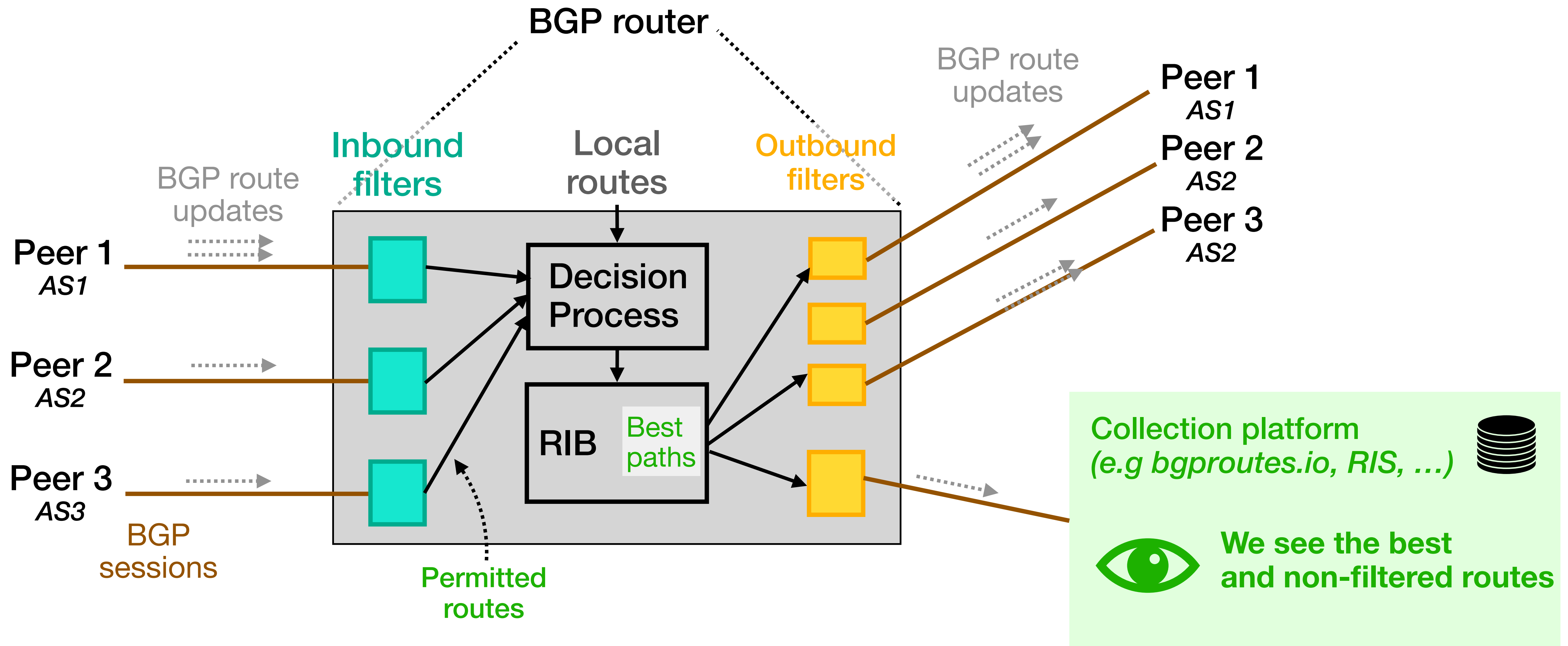
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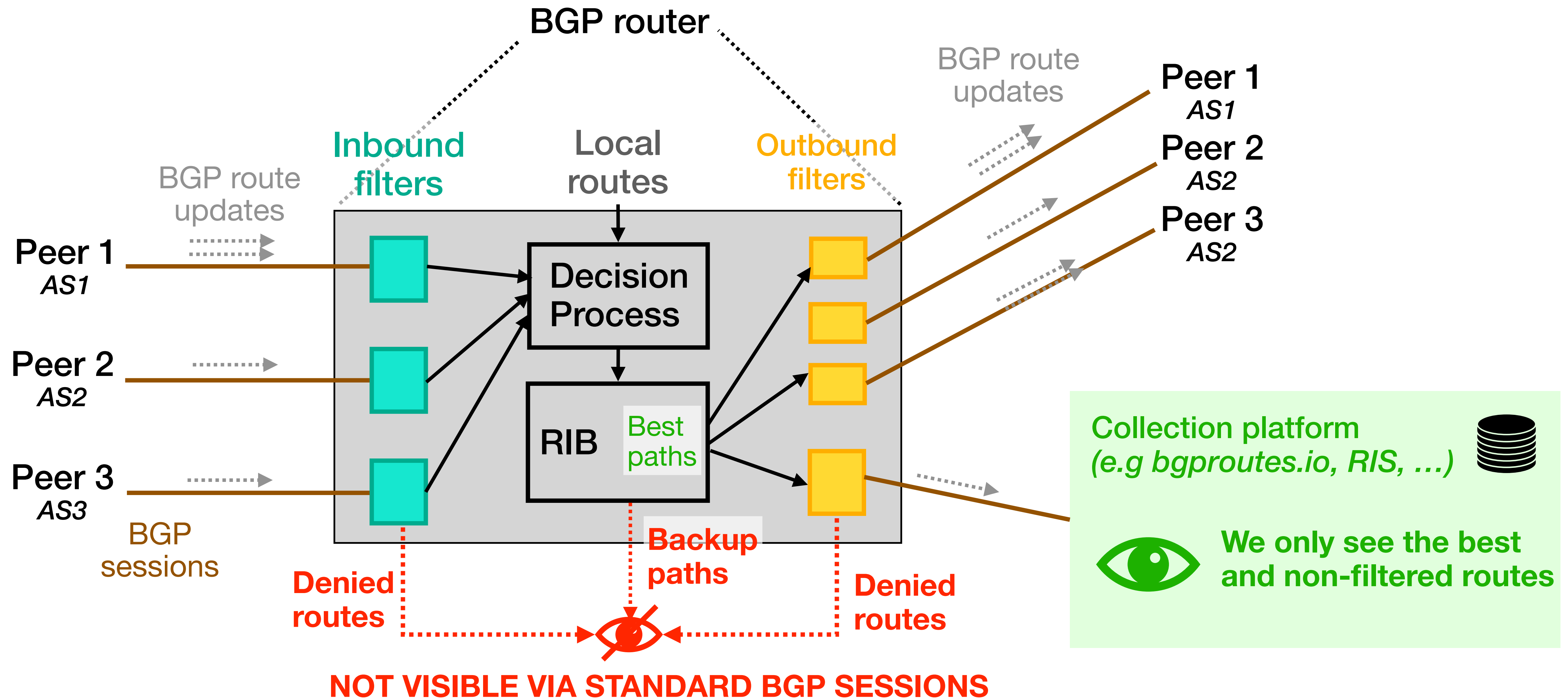
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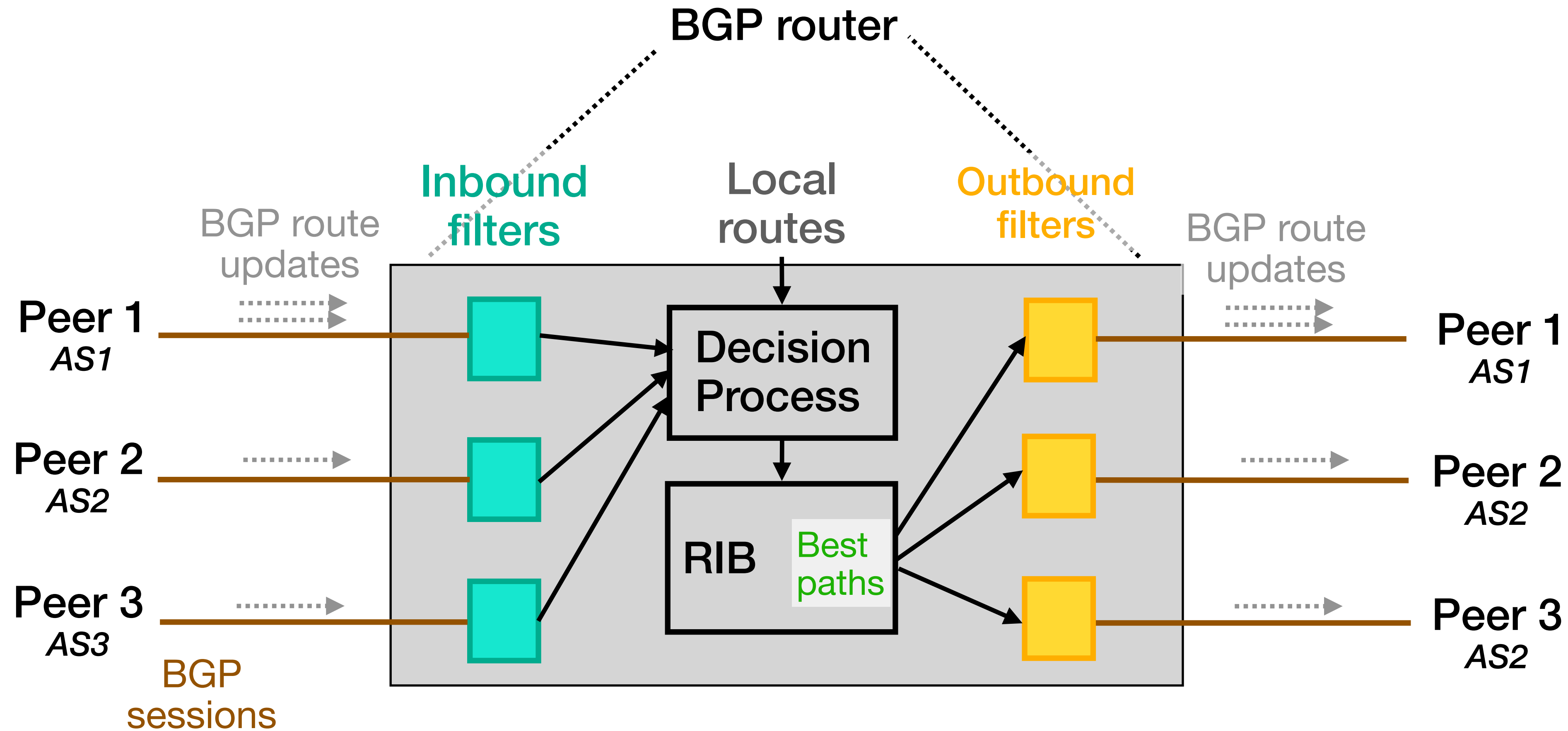


bgproutes.io can gather BGP route updates via the BGP Monitoring Protocol (BMP) – *and it's much more efficient!*

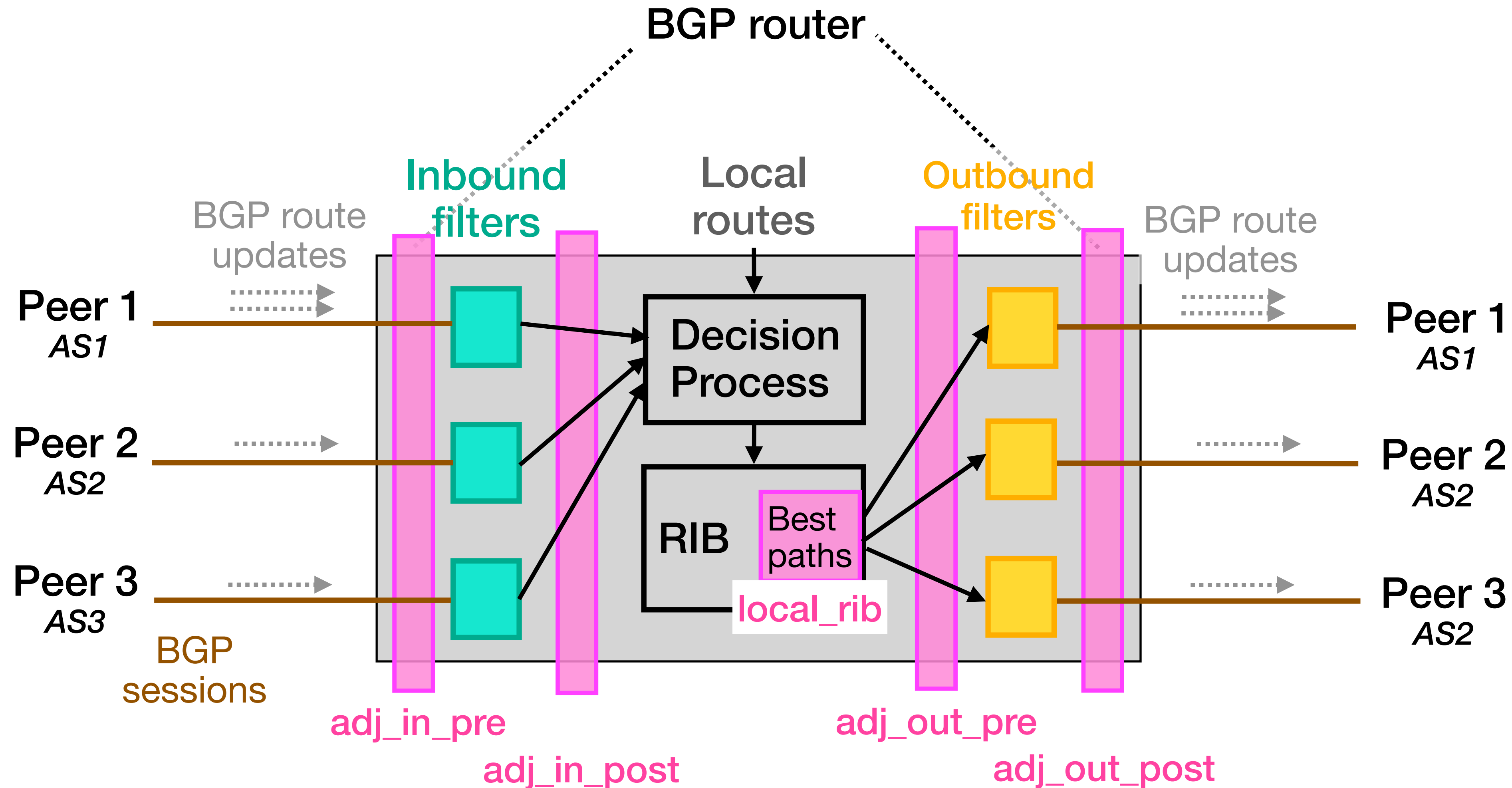
- ✓ BMP provides all route updates on a per-peer basis
- ✓ BMP provides route updates at all stages of the BGP processing pipeline

➔ BMP is also simple to configure

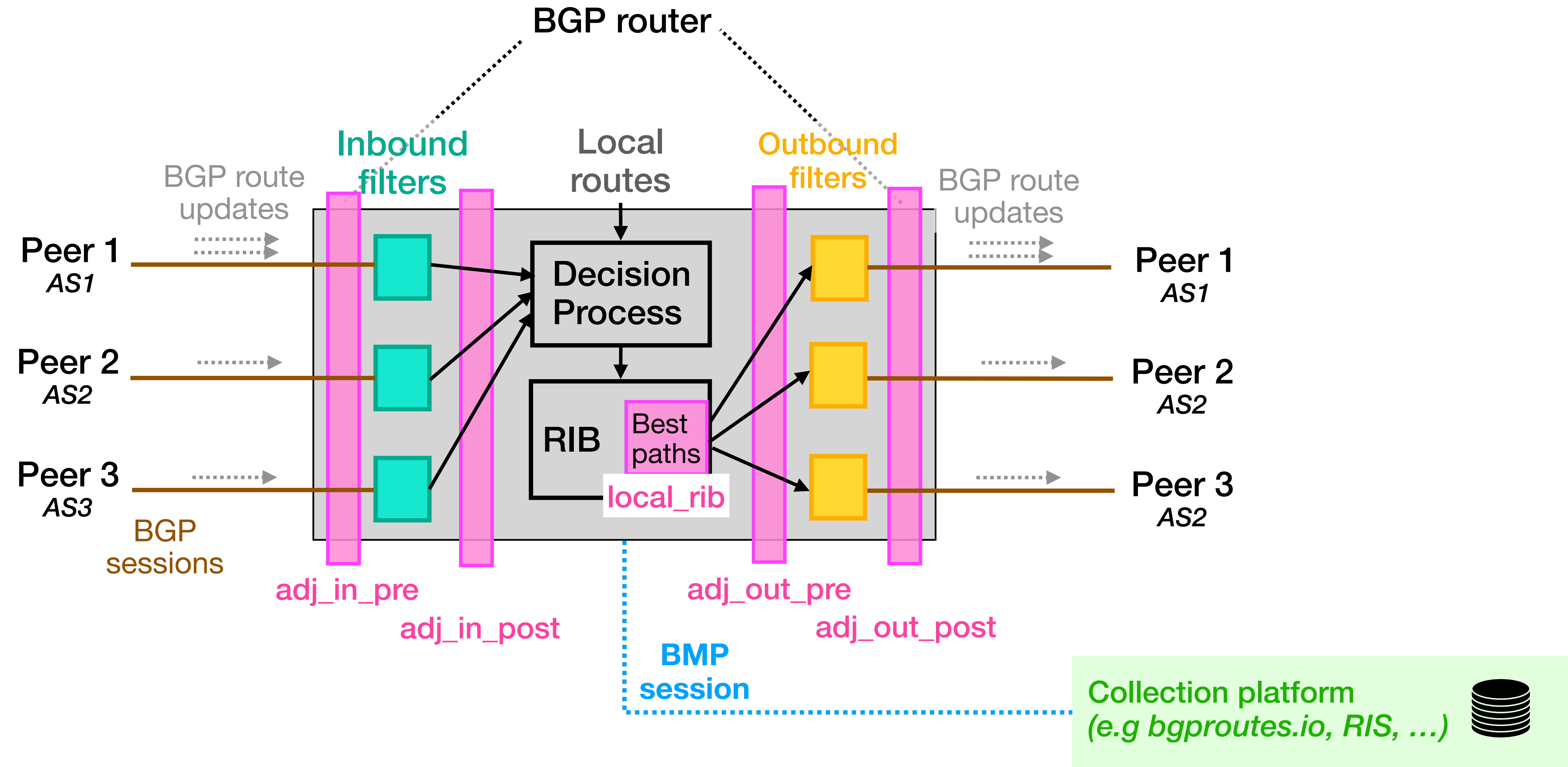
BMP allows to collect routes at every stage of the BGP router



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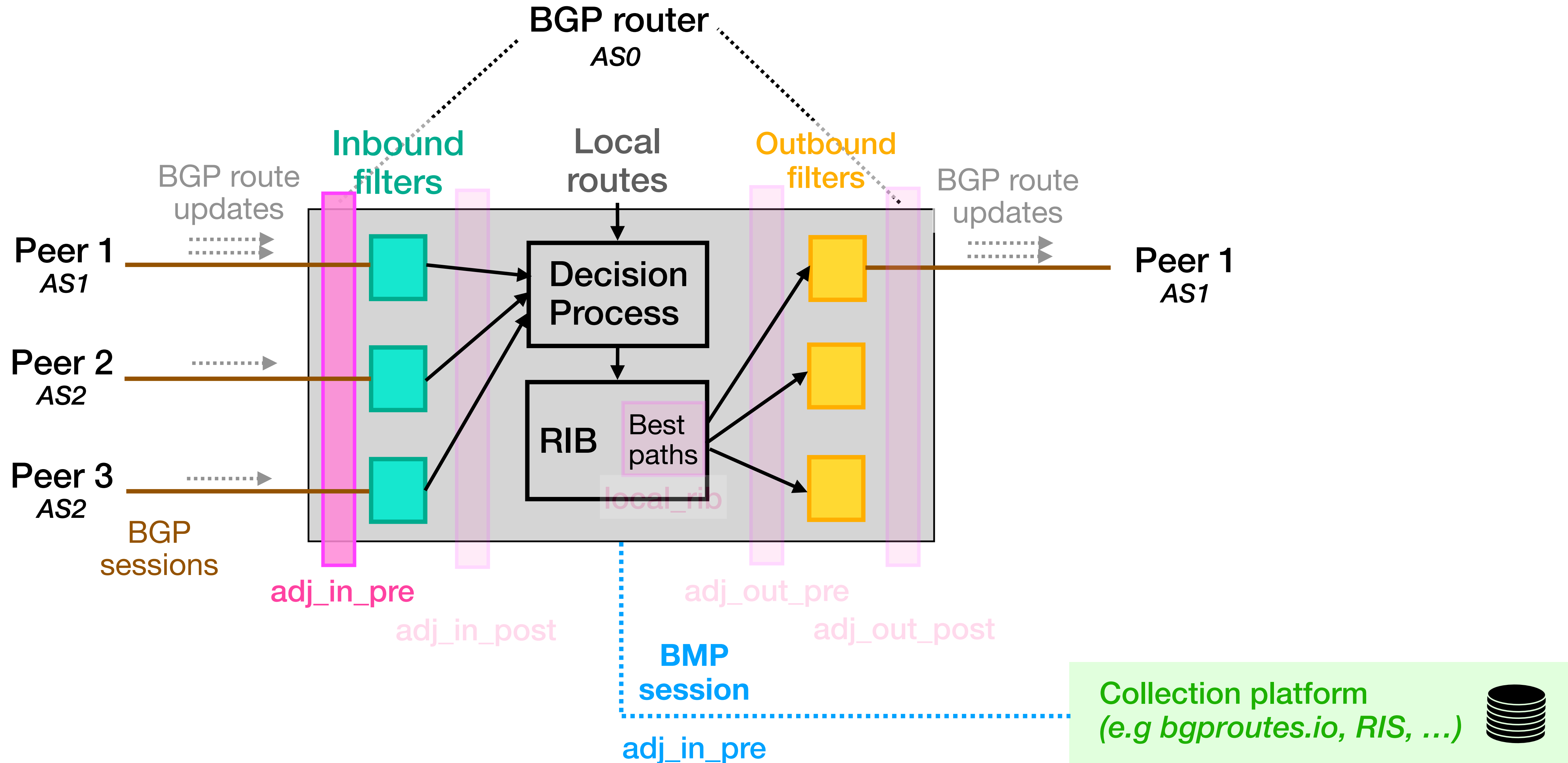


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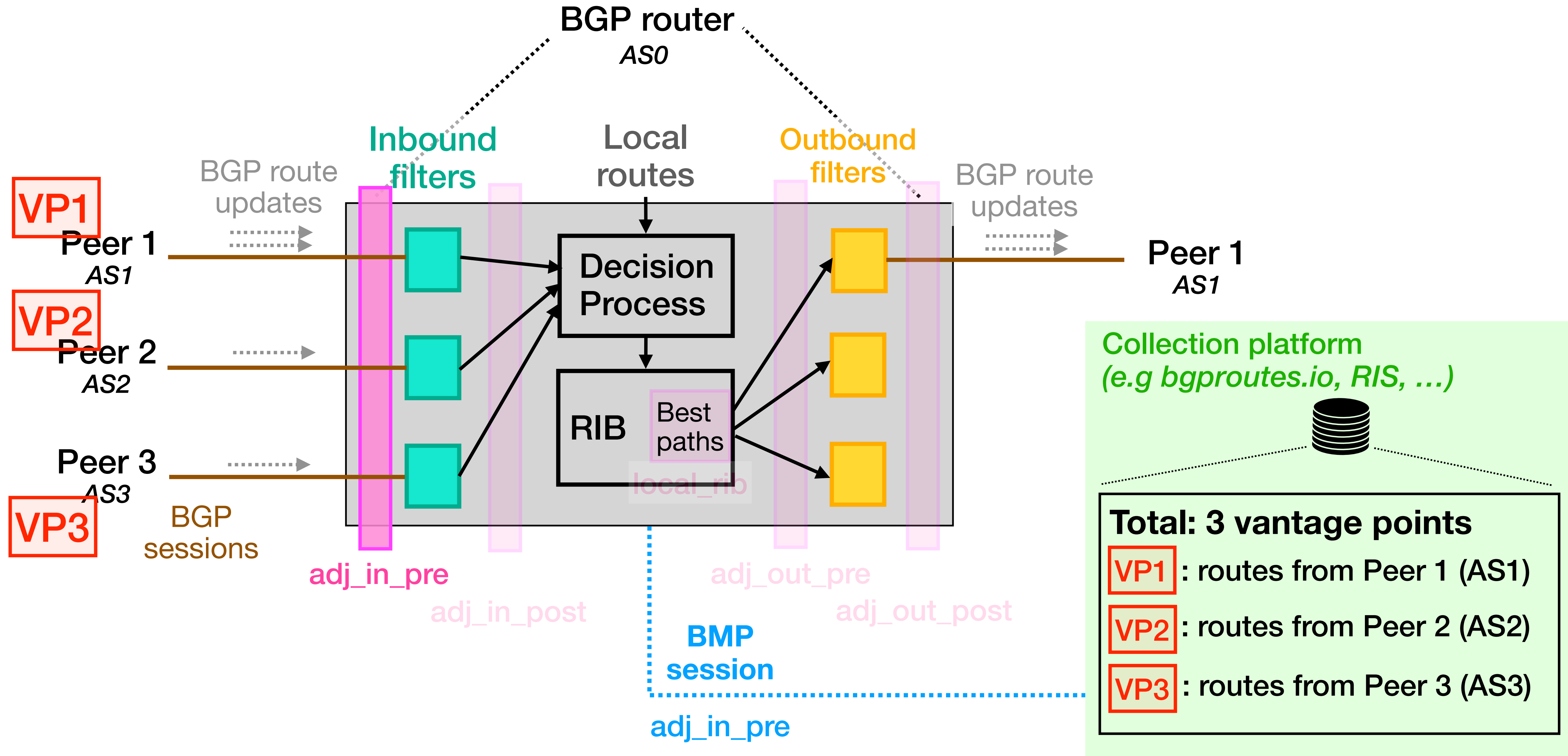


We recommend exporting data for the adj_in_pre stage only

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We recommend exporting data for the `adj_in_pre` stage only



bgproutes.io

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<https://bgproutes.io>
You can peer with us!

Collecting more data is useful

But not when users cannot effectively process it

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Processing MRT files is cumbersome, so instead:

- We provide a public API to fetch the raw data

it's quick, flexible and fast

- We provide dashboards to explore the data

it's easy and intuitive

The AS Explorer enables users to explore connectivity, prefixes, vantage points and more for every AS

bgproutes.io

AS/IXP/IP Explorer

Start peering with us!
Quick setup · public data

Doc

Search for:

Search

Reset

Search for ASNs, IXPs, IPs, prefixes, or organization names.

(CZ) AS29504 — Freenet Liberec, z.s.
LBCFREE

Type: Non-Profit
Website: www.lbcfree.net
Looking glass: -
Organisation ID: ORG-FLZ1-RIPE
Allocated under: RIPE

This AS contributes data via a BGP session.
If you operate this AS, you can also set up a BMP session with bgproutes.io.

Connectivity summary

	v4+v6	v4 only	v6 only
AS degree	304 rank: 546	291 rank: 522	250 rank: 367
Customer cone	1 rank: 13264	1 rank: 12822	1 rank: 7455

ConnectivityPrefixesIXPFacilitiesSiblingsVantage points

Upstreams, downstreams, and peers are inferred from the BGP data collected by bgproutes.io. More data helps produce more accurate inferences, but errors can still occur. We describe our inference algorithm in the doc.

Upstreams (3)

Downstreams (0)

Peers (301)

Search...

ASN ^	Name —	Type —	Country —	Inference —
6939	Hurricane Electric LLC	NSP	US	Detail
15935	ha-vel internet s.r.o.	NSP	CZ	Detail
39392	SH.cz s.r.o.	Content	CZ	Detail

Page 1 of 1

45

Our dashboards bridge the gap between users and the raw data

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Connectivity

Prefixes

IXPs

Facilities

Siblings

Vantage points

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Our dashboards bridge the gap between users and the raw data

These AS paths led to inference that Hurricane Electric is a provider of AS29504

× Inference detail

We found **27** distinct AS-paths where **AS29504** and **AS6939** are directly connected. **AS29504** appeared as a downstream of **AS6939** in **27** AS-paths where **AS6939** is connected to a tier one. On the other hand, **AS6939** appeared as a downstream of **AS29504** in **0** AS-paths where **AS29504** is connected to a tier one. Therefore, **100.00** % of the AS-paths used for the inference enabled bgproutes.io to infer **AS29504** as a customer of **AS6939**.

For each inference, we provide at most 100 AS paths used in the inference.

AS 29504 is customer of AS 6939

No AS paths in this category ▼

AS 29504 is provider of AS 6939

Expand to show 27 AS paths ^

AS-Path	Step
AS15692 Tier1 AS2914 AS6939 AS29504	Step #1 !
AS46997 AS38008 Tier1 AS3491 AS6939 AS29504	Step #1 !
AS151704 AS55410 Tier1 AS1299 AS6939 AS29504	Step #1 !
AS6447 Tier1 AS6830 AS6939 AS29504	Step #1 !
AS6447 Tier1 AS3491 AS6939 AS29504	Step #1 !
AS6447 AS151704 AS55410 Tier1 AS1299 AS6939 AS29504	Step #1 !
AS6447 AS328964 Tier1 AS3491 AS6939 AS29504	Step #1 !

The IP Prefix Explorer is a “giant” looking glass:
it provides routes to a prefix from *all* VPs

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IP Prefix Explorer

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Quick setup • public data

Doc

Search in results...

540 entries loaded

1 / 6

<

>

#	Vantage Point	Prefix	AS Path	Community
0	ID4 AS39122 IP195.66.226.97 BLACKNIGH	✓ 185.193.84.0/22	39122 1299 39392 29504	1299:430 1299:1000 1299:30000 1299:30850
1	ID13 AS2914 IP195.66.224.138 NTT-DATA-	✓ 185.193.84.0/22	2914 1299 39392 29504	2914:420 2914:1009 2914:2000 2914:3000
2	ID15 AS3170 IP195.66.227.195 VELOXSERV	✓ 185.193.84.0/22	3170 174 39392 29504	174:21101 174:22016 60945:0
3	ID16 AS271253 IP195.66.231.56	✓ 185.193.84.0/22	271253 1299 39392 29504	
4	ID25 AS15562 IP165.254.255.2 SNIJDERS	✓ 185.193.84.0/22	15562 2914 1299 39392 29504	2914:420 2914:1009 2914:2000 2914:3000
5	ID35 AS207841 IP195.66.227.233 INFERNO	✓ 185.193.84.0/22	207841 61049 15935 29504	15935:300 15935:302 15935:29504
6	ID38 AS3491 IP195.66.224.167 CONSOLE-C	✓ 185.193.84.0/22	3491 1299 39392 29504	1299:30000 3491:3000 3491:3001 3491:9002
7	ID43 AS35266 IP5.57.81.216 EXN-AS	✓ 185.193.84.0/22	35266 1299 39392 29504	1299:30000 35266:60 35266:1299
8	ID44 AS58057 IP194.50.92.251 SECUREBIT	✓ 185.193.84.0/22	58057 34549 1299 39392 29504	0:34927 0:56382 0:58299 1299:30000 34549:0
9	ID48 AS42472 IP195.66.226.113 AS-ANFXTA	✓ 185.193.84.0/22	42472 1299 39392 29504	1299:30000 42472:1500 42472:2000 42472:2100

All prefixes (1)

185.193.84.0/22

Prefix visibility

Count per origin AS

528

12

As-path length distribution

For hops: 1-6 and >6

1

>6

2

3

4

5

6

Top 5 second-hop AS numbers

Prepended AS numbers omitted

AS39392

310

AS15935

85

AS6939

64

AS24482

6

Top 5 third-hop AS numbers

Prepended AS numbers omitted

AS1299

189

AS174

111

AS33891

59

AS50263

12

Filters

Prefix (up to 10, v4 or v6)

185.193.84.0/22

Search

Reset filters

Full-feeders VPs only

Date (UTC). Default is now-5min

16/01/2026, 18:41:35

Prefix match type

Exact

Collection platform

All

VPs' ASN(s)

VPs' ASN country codes

VPs' IP geolocation country codes

VPs' BMP parent ASNs (BMP only)

What to show

Existing and missing ent...

The IP Prefix Explorer is a “giant” looking glass:
it provides routes to a prefix from *all* VPs

Advanced filtering capabilities

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IP Prefix Explorer

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All prefixes (1)

185.193.84.0/22

Prefix visibility

Count per origin AS

528 12

As-path length distribution

For hops: 1-6 and >6

1 2 3 4 5 6 >6

Top 5 second-hop AS numbers

Prepended AS numbers omitted

AS39392 310 AS15935 85 AS6939 64 AS24482 6

Top 5 third-hop AS numbers

Prepended AS numbers omitted

AS1299 189 AS174 111 AS33891 59 AS50263 12

Filters

Prefix (up to 10, v4 or v6)

185.193.84.0/22

Search Reset filters

Full-feeders VPs only

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Collection platform

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VPs' ASN(s)

VPs' ASN country codes

VPs' IP geolocation country codes

VPs' BMP parent ASNs (BMP only)

What to show

Existing and missing ent...

The Vantage Point Explorer enables users to browse all VPs and explore the data they generate

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Vantage Points Explorer

▼

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Quick setup • public data

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Group VPs by

ASN

▼

Full feeders only

IPv4

IPv6

BGP

BMP

Search (ID, org, AS, country, platform)...

<

Showing 1-100 of 966

>

Organization	# VPs
 AMAZON-02 (AS16509)	104
 FACEBOOK (AS32934)	98
 AKAMAI-ASN1 (AS20940)	62
 CLOUDFLARENET (AS13335)	58
 FITI-AS-BKB (AS38272)	41
 GCORE (AS199524)	41
 MICROSOFT-CORP-MSN-A... (AS8075)	39
 COLT (AS8220)	32
 HURRICANE (AS6939)	30
 i3Dnet (AS49544)	30
 APPLE-ENGINEERING (AS714)	28
 VALVE-CORPORATION (AS32590)	25

53

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Group VPs by

ASN

Full feeders only

IPv4

IPv6

BGP

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Showing 1-100 of 966

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MICROSOFT-CORP-MSN-A...	39
COLT (AS8220)	32
HURRICANE (AS6939)	30
i3Dnet (AS49544)	30
APPLE-ENGINEERING (AS714)	28
VALVE-CORPORATION (AS32590)	25

GCORE(AS199524)

Search VPs (ID, ASN, IP, protocol, platform)...

Showing 1-41 of 41

ID528		bgp	routeviews	2001:12f8:0:2::54
ID259		bgp	ris	187.16.222.229
ID1028		bgp	ris	2001:7f8:1:0:a500
ID832		bgp	ris	80.249.210.150
ID514		bgp	ris	194.68.123.191
ID881		bgp	routeviews	103.162.254.114
ID395		bgp	ris	2001:12f8::222:22
ID14318		bgp	routeviews	2001:7f8:10::19:9
ID329		bgp	ris	2001:504:0:6:0:19
ID536		bgp	ris	2001:7f8:d:ff::19
ID674		bgp	ris	198.32.243.133
ID533		bgp	ris	2001:504:d::19:95
ID902		bgp	routeviews	2001:df6:480:0:3:
ID102		bgp	routeviews	103.22.170.224

The Vantage Point Explorer enables users to browse all VPs and explore the data they generate

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Vantage Points Explorer

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Quick setup • public data

Doc

Group VPs by

ASN

Full feeders only

IPv4

IPv6

BGP

BMP

Search (ID, org, AS, country, platform)...

Showing 1-100 of 966

Organization

AMAZON-02 (AS16509)

104

FACEBOOK (AS32934)

98

AKAMAI-ASN1 (AS20940)

62

CLOUDFLARENET (AS13335)

58

FITI-AS-BKB (AS38272)

41

GCORE (AS199524)

41

MICROSOFT-CORP-MSN-A... (AS8075)

39

COLT (AS8220)

32

HURRICANE (AS6939)

30

i3Dnet (AS49544)

30

APPLE-ENGINEERING (AS714)

28

VALVE-CORPORATION (AS32590)

25

GCORE(AS199524)

Overview

Updates

RIB

Search VPs (ID, ASN, IP, protocol, platform)...

Showing 1-41 of 41

ID528

bgp

routeviews

2001:12f8:0:2::54

ID259

bgp

ris

187.16.222.229

ID1028

bgp

ris

2001:7f8:1:0:a500

ID832

bgp

ris

80.249.210.150

ID514

bgp

ris

194.68.123.191

ID881

bgp

routeviews

103.162.254.114

ID395

bgp

ris

2001:12f8::222:22

ID14318

bgp

routeviews

2001:7f8:10::19:9

ID329

bgp

ris

2001:504:0:6:0:19

ID536

bgp

ris

2001:7f8:d:ff::19

ID674

bgp

ris

198.32.243.133

ID533

bgp

ris

2001:504:d::19:95

ID902

bgp

routeviews

2001:df6:480:0:3:

Number of BGP messages over time

Load graph

Counts per bin for the selected VP and filters; each X label is the trailing bin total (e.g., label 11:00 → 10:00–11:00).

Announcements

Withdrawals

03:14 01-16

06:14 01-16

09:14 01-16

12:14 01-16

15:14 01-16

18:14 01-16

21:14 01-16

02:14 01-17

Updates

Load updates

List of updates on a per-prefix basis (only the first 1000 items are shown). Announcements are green, withdrawals are red.

Filters

Data AFI

both

Match type

Prefix

exa...

e.g., 8.0.0.0/8

Start date (UTC)

16/01/2026, 02:14

End date (UTC)

17/01/2026, 02:14

Irrelevant for RIB queries

AS path regexp

e.g., 3333\$

Community regexp

e.g., 65000:.*

Bin size (min)

Only relevant for updates graph

60

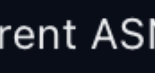
Message type

Only relevant for updates queries

both

**With the Vantage Point Explorer
users can also browse BMP-derived VPs**

**With the Vantage Point Explorer
users can also browse BMP-derived VPs**



Vantage Points Explorer

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Group VPs by

BMP parent ASN

Full feeders only

IPv4

IPv6

BGP

BMP

Search (ID, org, AS, country, platform)...

Showing 1-7 of 7

Organization	# VPs
 NOK-IP-NET-LABS (AS38016)	111
 ABICOM (AS48213)	89
 Sdnbucks (AS205755)	26
 OuestNetwork-RouteServ... (AS49451)	15
 RGNET-DFW (AS4128)	12
 ERTIUS-NET (AS213576)	11
 Stocade (AS214809)	5

57

**With the Vantage Point Explorer
users can also browse BMP-derived VPs**

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Vantage Points Explorer

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Quick setup · public data

Doc

Group VPs by

BMP parent ASN

Full feeders only

IPv4

IPv6

BGP

BMP

Search (ID, org, AS, country, platform)...

< Showing 1-7 of 7 >

Organization

VPs

NOK-IP-NET-LABS (AS38016)

111

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26

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15

RGNET-DFW (AS4128)

12

ERTIUS-NET (AS213576)

11

Stocade (AS214809)

5

NOK-IP-NET-LABS(AS38016)

<

X

Search VPs (ID, ASN, IP, protocol, platform)...

< Showing 1-100 of 111 >

ID1811

bmp

bgproutes

80.81.197.82

ID1808

bmp

bgproutes

80.81.196.38

ID1860

bmp

bgproutes

2001:7f8::2ca:0:4

ID1779

bmp

bgproutes

80.81.192.28

ID1776

bmp

bgproutes

46.18.174.241

ID1849

bmp

bgproutes

2001:504:36::8463

ID1780

bmp

bgproutes

80.81.192.46

ID1781

bmp

bgproutes

80.81.192.78

ID1854

bmp

bgproutes

2001:504:36::f63a

ID1777

bmp

bgproutes

80.81.192.6

ID1828

bmp

bgproutes

206.82.104.132

ID1831

bmp

bgproutes

206.82.105.2

ID1792

bmp

bgproutes

80.81.193.202

ID1793

bmp

bgproutes

80.81.193.223

AS38016 exports data for 110 VPs via a single BMP session

These VPs are peers with whom AS38016 connects over DE-CIX

58

BMP feeders can also be IXP route servers

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Vantage Points Explorer

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Doc

Group VPs by

BMP parent ASN

Full feeders only

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<

Showing 1-7 of 7

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 ERTIUS-NET (AS213576)	11
 Stocade (AS214809)	5

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BMP feeders can also be IXP route servers

BIRD and FRRouting are widely used software routing stacks commonly deployed as IXP route servers

 **They both support BMP**



The Next Generation of BGP Data Collection Platforms

Thomas Holterbach
University of Strasbourg

Joint work with:

Thomas Alfroy
Cristel Pelsser



<https://bgproutes.io>
You can peer with us!