

Étendre la visibilité du routage BGP grâce à BMP

Thomas Holterbach
Université de Strasbourg

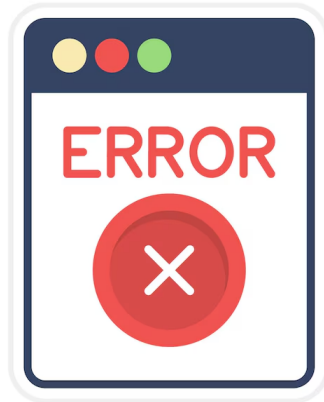
FRNOG, Paris
24 Octobre 2025

Collaborateurs:
Thomas Alfroy
Cristel Pelsser

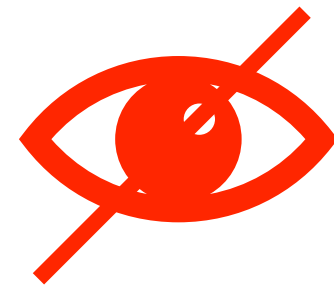


**Les données BGP collectées à partir de routeurs BGP
sont essentielles pour superviser le routage dans l'Internet**

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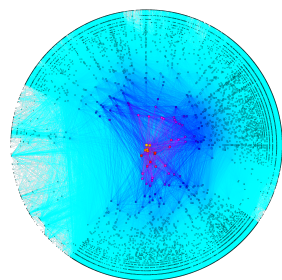
Détection d'erreurs de configuration



Identification de préfixe IP non visible



Detection d'attaques de routage



Cartographier l'Internet

L'année dernière, à FRNOG40, j'ai présenté **bgproutes.io**,
notre nouvelle plateforme de collecte de routes BGP

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Notre site Internet en 2024 *(très rudimentaire)*

bgproutes.io

GILL

MVP

DFOH

GILL

Expanding BGP Data Horizons

List of peers

Click on any peer to get more information about it.
We have integrated peers from RIS and RouteViews to bootstrap GILL with some peers. However, it currently has a limited number of peers as it is still in prototype mode.

Use the form below to apply filters and select the peers you wish to view.

Peer ASN

Peer IP

☐ Only show the active peers

Submit

Organisation	ASN	IP address	Up since	Removed since	Peer origin
RGNET-IAD	3827	188.180.153.120	2024-09-14	Still active	GILL
RGNET-SEA	3130	147.28.0.5	2024-09-14	Still active	GILL
RGNET-DFW	4128	157.238.234.206	2024-09-14	Still active	GILL
WYBT-NET	53645	185.191.197.21	2024-09-14	Still active	GILL
BENJONET	208324	185.230.223.3	2024-09-14	Still active	GILL
NetDEF-US	207465	184.147.138.2	2024-09-14	Still active	GILL
SPMX-MGMT	12278	188.36.53.242	2024-09-14	Still active	GILL

La plateforme était connectée avec **<10 peers**

Seulement de la collecte de données, **aucun service**

En un an, **bgproutes.io**
a beaucoup évolué

En un an, bgproutes.io
a beaucoup évolué

Un site Internet amélioré

The screenshot shows the bgproutes.io website with a dark theme and a network diagram background. The header includes the logo, navigation links for 'Services' and 'Vantage points', and buttons for 'Start peering with us!' and 'Log In'. The main section features a large heading 'We make BGP data analysis' and a descriptive paragraph about the site's function. A search bar is present with the text 'Search for: AS3356, IXP-1, 8.8.8.8, Google, IXP 1'. To the right, a sidebar displays three statistics: 'Vantage points 5368', 'Coverage 1.7%', and 'Platforms 5'. Below the search bar, there are three promotional cards: 'NEW BMP support', 'EVENT Meet us at FRNOG', and 'SOCIAL Join our Discord'. A green banner states 'bgproutes.io unlocks new capabilities', followed by three green boxes detailing the site's features: 'Open and automated peering policy', 'All data in one single repository', and 'Powerful data access and accurate services'.

bgproutes.io

Services Vantage points

Start peering with us! Log In

We make BGP data analysis

bgproutes.io collects BGP routes from operational routers, a.k.a. Vantage Points (VPs), and delivers them through a **fast, unified, and intuitive** interface. Try it out below.

Search for: AS3356, IXP-1, 8.8.8.8, Google, IXP 1

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Read our blog post →

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bgproutes.io unlocks new capabilities

- ✓ **Open and automated peering policy**
bgproutes.io operates its own peering and data collection infrastructure with an open peering policy. Any network operator can set up a peering session effortlessly, with full automation through our website, making data contribution seamless.
- ✓ **All data in one single repository**
bgproutes.io is not intended to compete with platforms like RIS or RouteViews — each has its own strengths and limitations. Instead, bgproutes.io centralizes the BGP data from all public collection platforms into a single repository, aiming to enhance coverage and reduce visibility gaps.
- ✓ **Powerful data access and accurate services**

En un an, bgproutes.io
a beaucoup évolué

Un site Internet amélioré

Connexion avec la plateforme
simplifiée au maximum

The screenshot displays the bgproutes.io website interface. At the top, the navigation bar includes the logo, links for 'Services' and 'Vantage points', a red 'Start peering with us!' button, a blue 'Log In' button, and a sun icon for theme toggling. The main hero section features the headline 'We make BGP data analysis' and a descriptive paragraph about collecting BGP routes from operational routers (Vantage Points) and providing a fast, unified, and intuitive interface. Below this is a search bar containing the text 'Search for: AS3356, IXP-1, 8.8.8.8, Google, IXP 1'. To the right of the search bar, a network visualization shows a complex web of connections between nodes. On the far right, a vertical sidebar displays three key metrics: 'Vantage points' with a value of 5368, 'Coverage' at 1.7%, and 'Platforms' at 5. Below the search bar, three promotional cards are visible: 'NEW BMP support' with a link to a blog post, 'EVENT Meet us at FRNOG', and 'SOCIAL Join our Discord'. A green banner below these cards states 'bgproutes.io unlocks new capabilities'. The bottom section contains three green boxes with checkmark icons, each describing a capability: 'Open and automated peering policy', 'All data in one single repository', and 'Powerful data access and accurate services'.

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En un an, bgproutes.io a beaucoup évolué

94 points de vue (PdV):

- 54 full feeders
- 58 PdVs en IPv4
- 36 PdVs en IPv6

bgproutes.io

ServicesVantage points

Start peering with us!Log In

Navigate all these vantage points with our new Vantage Points Explorer

Open the explorer ↗

All vantage pointsFull feeders only

Vantage points by platform

All vantage points • 5 platforms ⓘ

Platform	BGP vantage points		BMP vantage points ⓘ blog post			
			adj in pre		adj in post	
bgproutes.io	v4: 42	v6: 20	v4: 14	v6: 12	v4: 1	v6: 1
CGTF RIS	v4: 17	v6: 56	not supported by the platform			
RIPE RIS	v4: 806	v6: 670	not supported by the platform			
RouteViews	v4: 714	v6: 673	not supported by the platform			
PCH	v4: 1939	v6: 405	not supported by the platform			
Total	v4: 3518	v6: 1824	v4: 15v6: 13			

We fetch data from RIPE RIS and RouteViews via their live services. For PCH and CGTF RIS, we ingest MRT archives, so updates may be delayed by a few minutes. We thank these platforms for making their data available.

Top countries by vantage points

All vantage points • Top 10

US	
NL	
GB	
DE	
AU	
CH	

Top organizations by vantage points

All vantage points • Top 10

AMAZON-02	
CLOUDFLARENET	
HURRICANE	
GOOGLE	
MICROSOFT-CORP-	
FACEBOOK	

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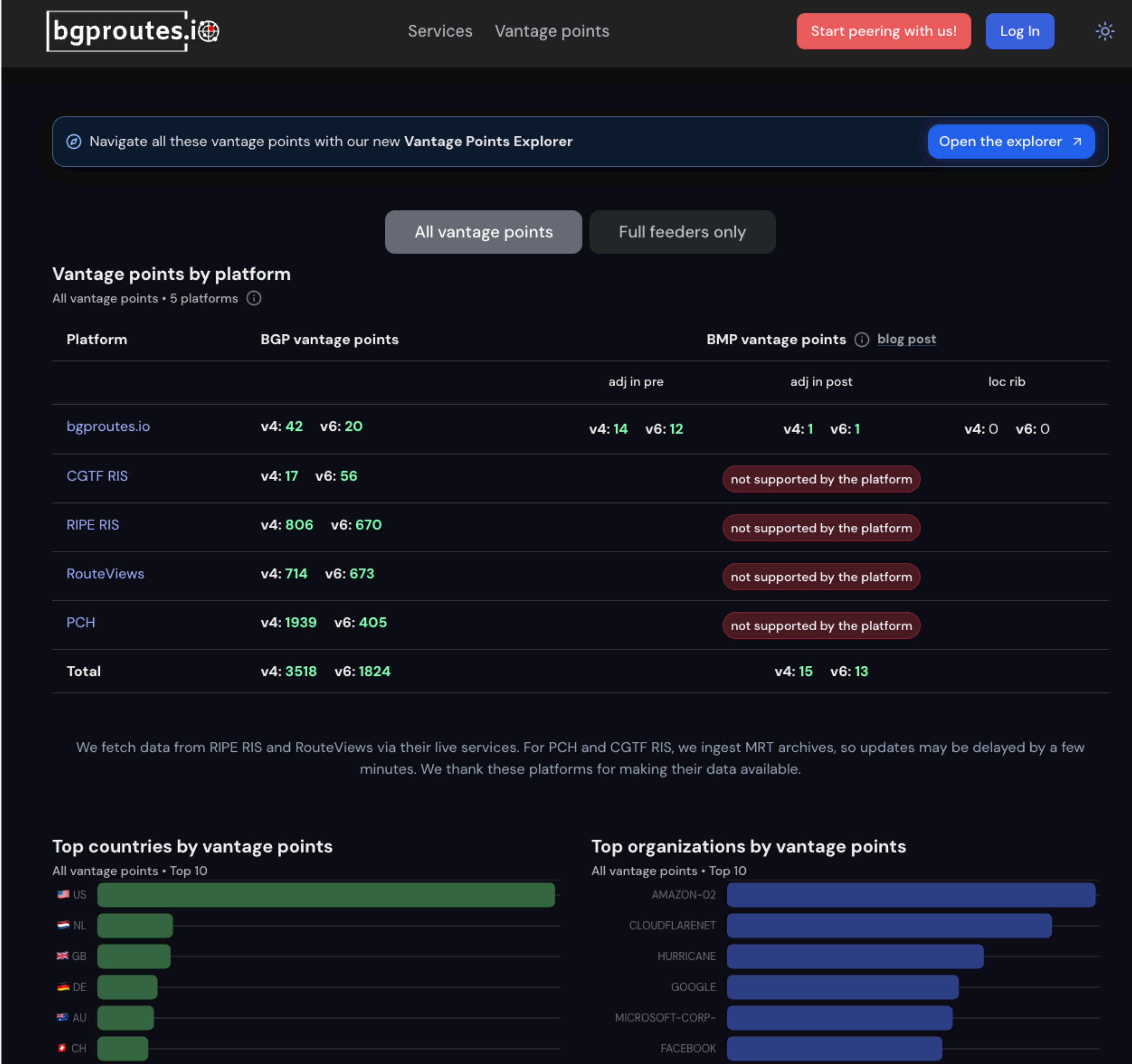
94 points de vue (PdV):

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bgproutes.io collecte aussi les données depuis:

- RIPE RIS
- RouteViews
- PCH
- CGTF RIS

Total: >5000+ points de vue



**En un an, bgproutes.io
a beaucoup évolué**

**Nos données sont publiquement
accessibles via trois canaux**

- 1. MRT Archive (standard)**
- 2. API (rapide et flexible)**
- 3. Websocket stream (temps réel)**

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Nos données sont publiquement
accessibles via trois canaux

1. MRT Archive (standard)
2. API (rapide et flexible)
3. Websocket stream (temps réel)



bgproutes.io fournit des
bibliothèques Python qui
simplifient l'accès

Implémenter une looking glass géante en 10 lignes de code

```
# Let's use our Python client to retrieve the data
from pybgproutesapi import vantage_points, rib

# Let's retrieve some vantage points (BGP and BMP)
vps = vantage_points(source=['bgproutes.io', 'ris', 'pch'])

response = rib(
    vps,
    date="2025-09-30T15:00:00",
    prefix_exact_match=['65.169.6.0/23', '91.106.223.0/24']
)

print(response)
```


**En un an, bgproutes.io
a beaucoup évolué**

**Trois dashboards sont en ligne,
et d'autres verront bientôt le jour**

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Trois dashboards sont en ligne, et d’autres verront bientôt le jour

bgproutes.io

Vantage Points Explorer

Start peering with us! Quick setup • public data

Doc

Group VPs byASN

Full feeders onlyIPv4IPv6BGPBMP

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

Showing 1-100 of 429

Organization	# VPs
GCORE (AS199524)	34
i3Dnet (AS49544)	27
SGG5-AS-AP (AS24482)	23
HURRICANE (AS6939)	19
VALVE-CORPORATION (AS32590)	17
NEO-ASN (AS8218)	14
ZAYO-6461 (AS6461)	12
BBO-1 (AS19151)	11
DIGICERT (AS16552)	11
RETN-AS (AS9002)	11
Workonline (AS37271)	11
iFog-GmbH (AS34927)	11
QWILTED-PROD-01 (AS20253)	10
RACKDOG-LLC (AS398465)	10
NTT-DATA-2914 (AS2914)	9
(AS52320)	8
AS-ANEXIA (AS42473)	8

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).

Updates

Load updates

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

Search updates (time, prefix, AS path, community, type)

Showing 1-1 of 1

Time (UTC)	Prefix	AS Path	Communities
10-20 15:30:39	185.34.84.0/22	6447 8075	

bgproutes.io

AS/IXP/IP Explorer

Start peering with us! Quick setup • public data

Doc

Enter a BGP ASN, an IXP identifier, or an IP address ...

e.g., AS3356, IXP-1, or Google

Search

ASN: 16276

Info type: Content

Website: www.ovhcloud.com

Looking glass: https://lg.ovh.net

Org name: OVH SAS

Org country: FR

bgproutes.io

IP Prefix Explorer

Start peering with us! Quick setup • public data

Doc

Search in results...

39 entries loaded

1 / 1

<

>

#	Vantage Point	Prefix	AS Path	Community
0	ID890 AS207841 IP193.57.144.254 INFERNO	✓ 130.79.0.0/16	207841 137409 2200 2200 2259	
1	ID926 AS34019 IP193.17.192.141 HIVANE	✓ 130.79.0.0/16	34019 2200 2200 2200 2259	
2	ID941 AS202585 IP185.244.24.1 bgp-rodeo	✗ 130.79.0.0/16		
3	ID964 AS211882 IP46.231.240.1 Aquilenet	✓ 130.79.0.0/16	211882 30781 2200 2259	
4	ID966 AS328840 IP139.84.227.165 ST-Digita	✓ 130.79.0.0/16	328840 64515 65534 20473	
5	ID976 AS215828 IP77.90.25.254 TMW-Globa	✓ 130.79.0.0/16	215828 64289 174 2200 2259	
6	ID991 AS8298 IP194.1.163.87 IPNG	✓ 130.79.0.0/16	8298 2200 2200 2200 2259	
7	ID1000 AS8298 IP194.1.163.148 IPNG	✓ 130.79.0.0/16	8298 2200 2200 2200 2259	
8	ID1001 AS44355 IP193.57.167.1 COLOCATIO	✓ 130.79.0.0/16	44355 61049 24115 2200 2200	
9	ID1005 AS207465 IP194.147.139.2 NetDEF-US	✓ 130.79.0.0/16	207465 6939 2200 2259	
10	ID1026 AS47160 IP87.236.35.131 MOJI	✓ 130.79.0.0/16	47160 2200 2200 2200 2259	
11	ID1029 AS396955 IP163.253.23.21 INTERNET2	✓ 130.79.0.0/16	396955 20965 2200 2259	
12	ID1035 AS4128 IP157.238.224.206 RGNET-DFW	✓ 130.79.0.0/16	4128 6939 2200 2259	
13	ID1055 AS8298 IP194.1.163.140 IPNG	✓ 130.79.0.0/16	8298 2200 2200 2200 2259	
14	ID1069 AS58308 IP91.109.120.3 CUSAE-AS	✓ 130.79.0.0/16	58308 2200 2200 2200 2259	
15	ID1074 AS3037 IP108.180.150.120 RGNET-TAN	✓ 130.79.0.0/16	3037 174 2200 2259	

All prefixes (1)

130.79.0.0/16

Prefix visibility

Count per origin AS

As-path length distribution

For hops: 1-6 and >6

Top 5 second-hop AS numbers

Prepended AS numbers omitted

AS174

AS2200

Top 5 third-hop AS numbers

Prepended AS numbers omitted

AS174

AS8298

AS6939

AS8283

Filters

>

Prefix (up to 10, v4 or v6)

130.79.0.0/16

✓

Search

Reset filters

Full-feeders VPs only

On

Date (UTC). Default is now-5min

21/10/2025, 00:21:52

Prefix match type

Exact

Collection platform

bgproutes.io

VP's ASN

e.g., 3333,559,2914

VP's ASN country

e.g., FR,GE

What to show

Existing and missing entries

AS path regexp

e.g., 3333\$

Community regexp

e.g., ^65000:.* or 3356:666\$

only v4

584

440

120

only v6

352

2412

5

Prefix Origin Countries

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Plan

1. Augmenter le nombre de points de collecte est difficile
2. BMP à la rescousse
3. Comment se connecter
4. Comment superviser ses sessions

Plan

1. Augmenter le nombre de points de collecte est difficile

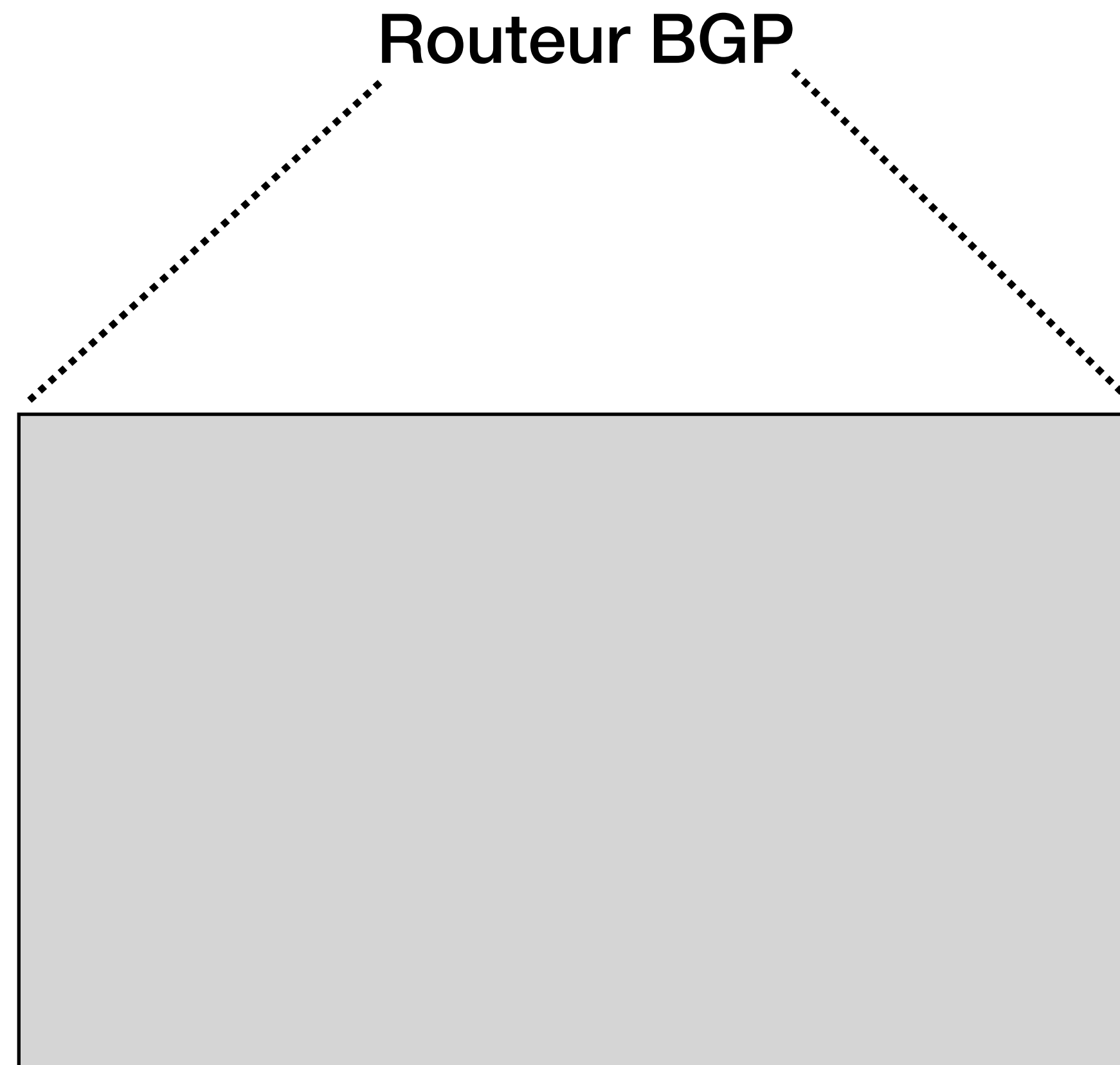
2. BMP à la rescousse

3. Comment se connecter

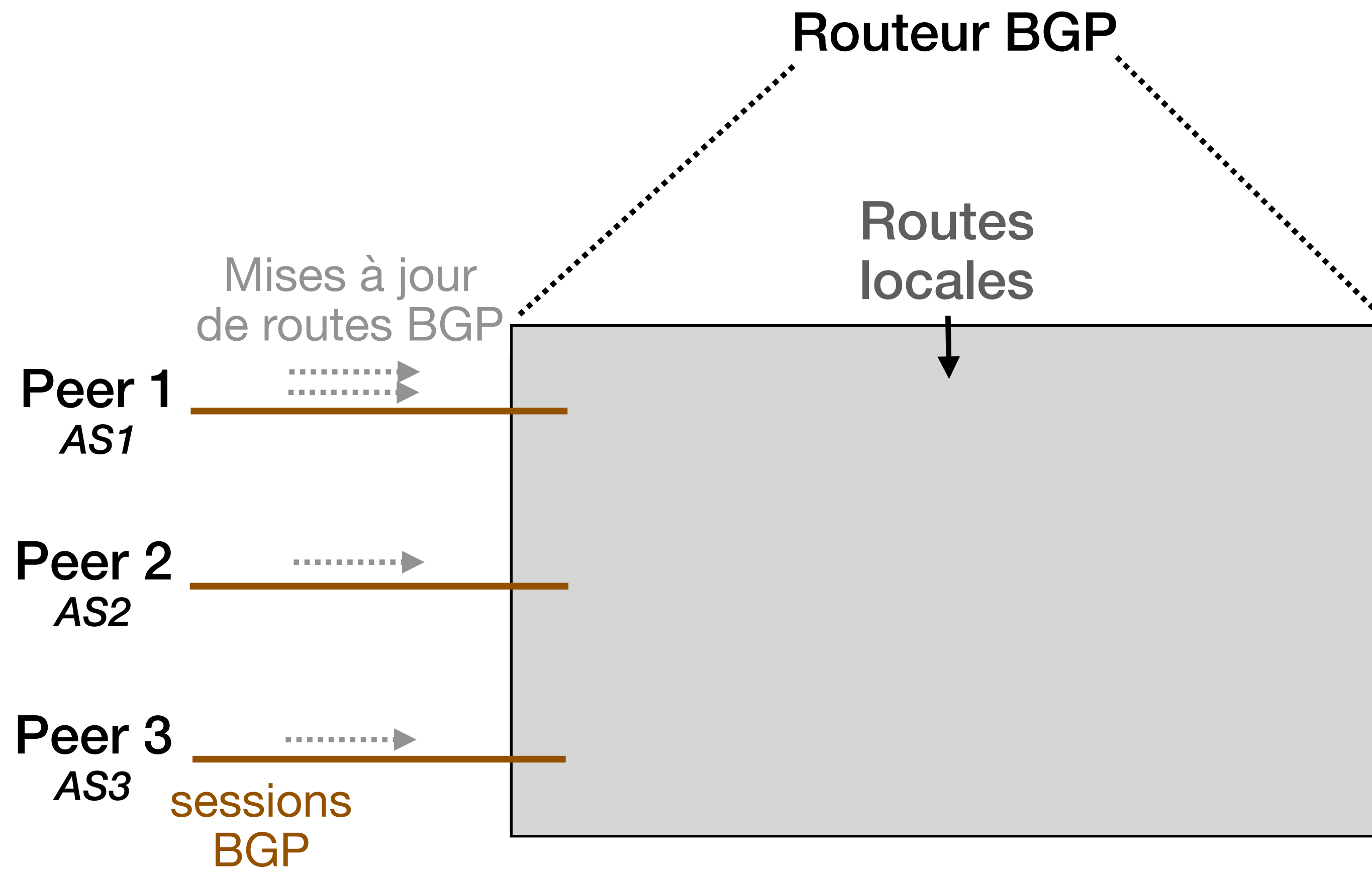
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**Quand un opérateur partage les données,
seulement un sous ensemble des routes sont visibles**

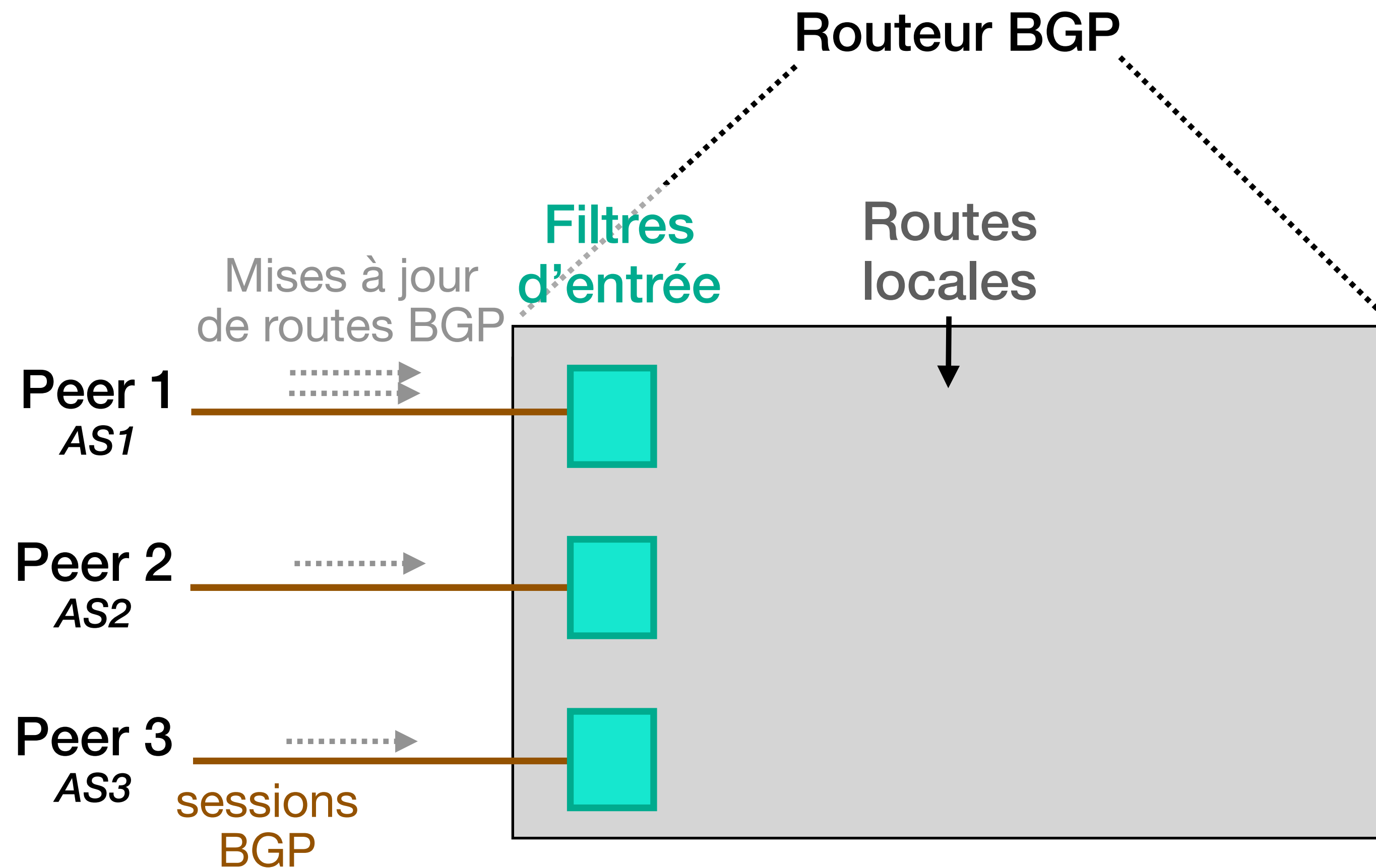
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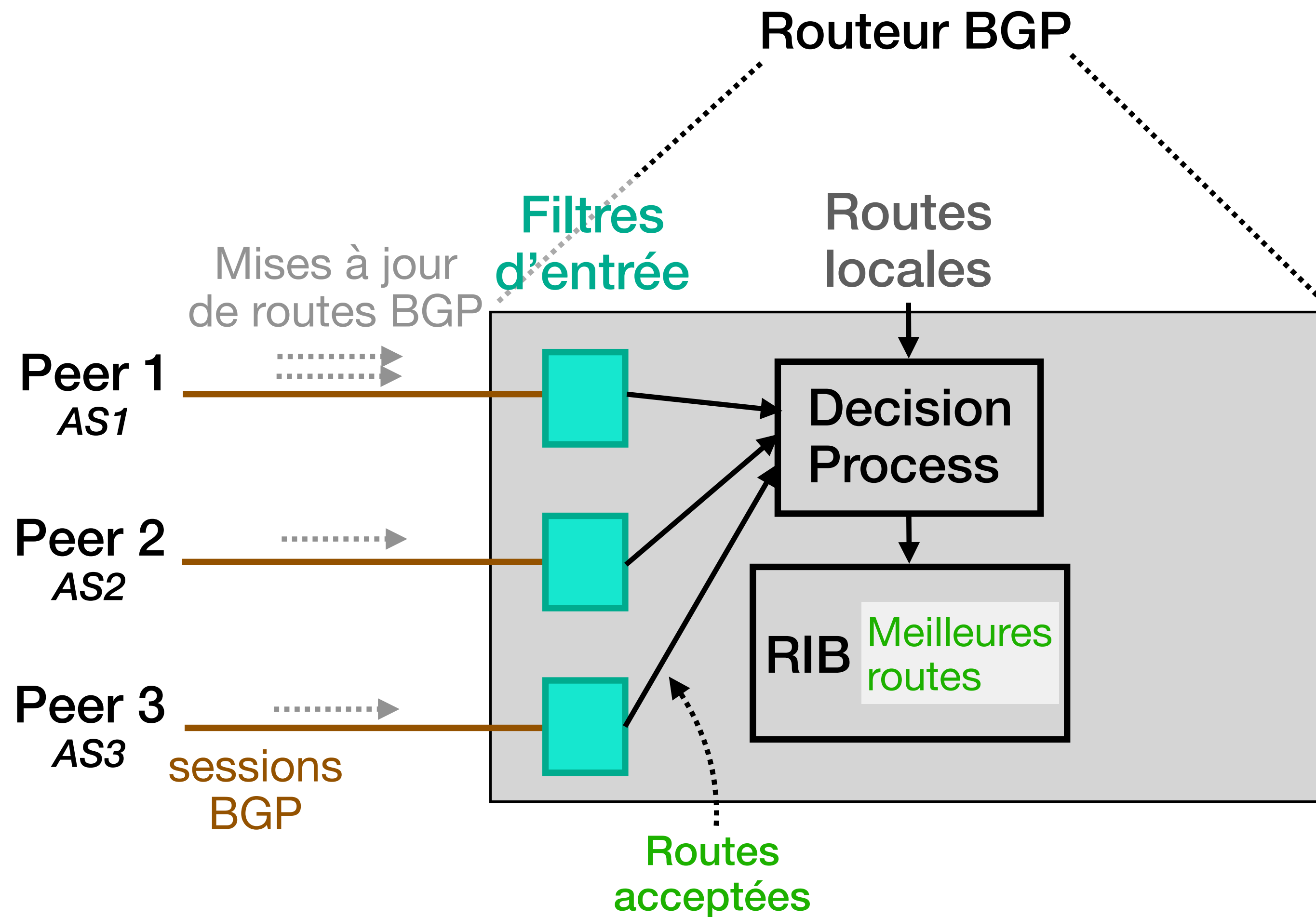
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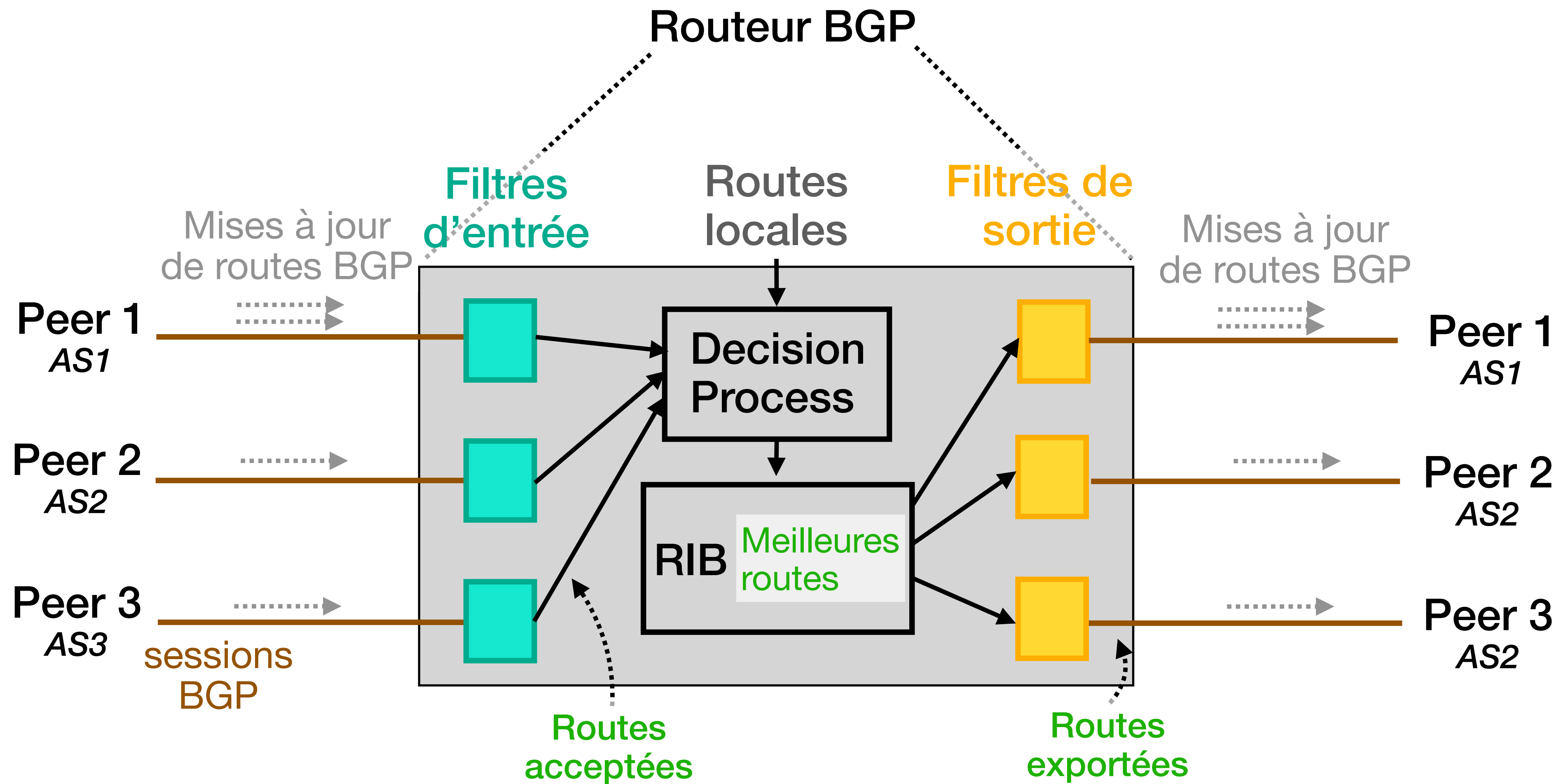
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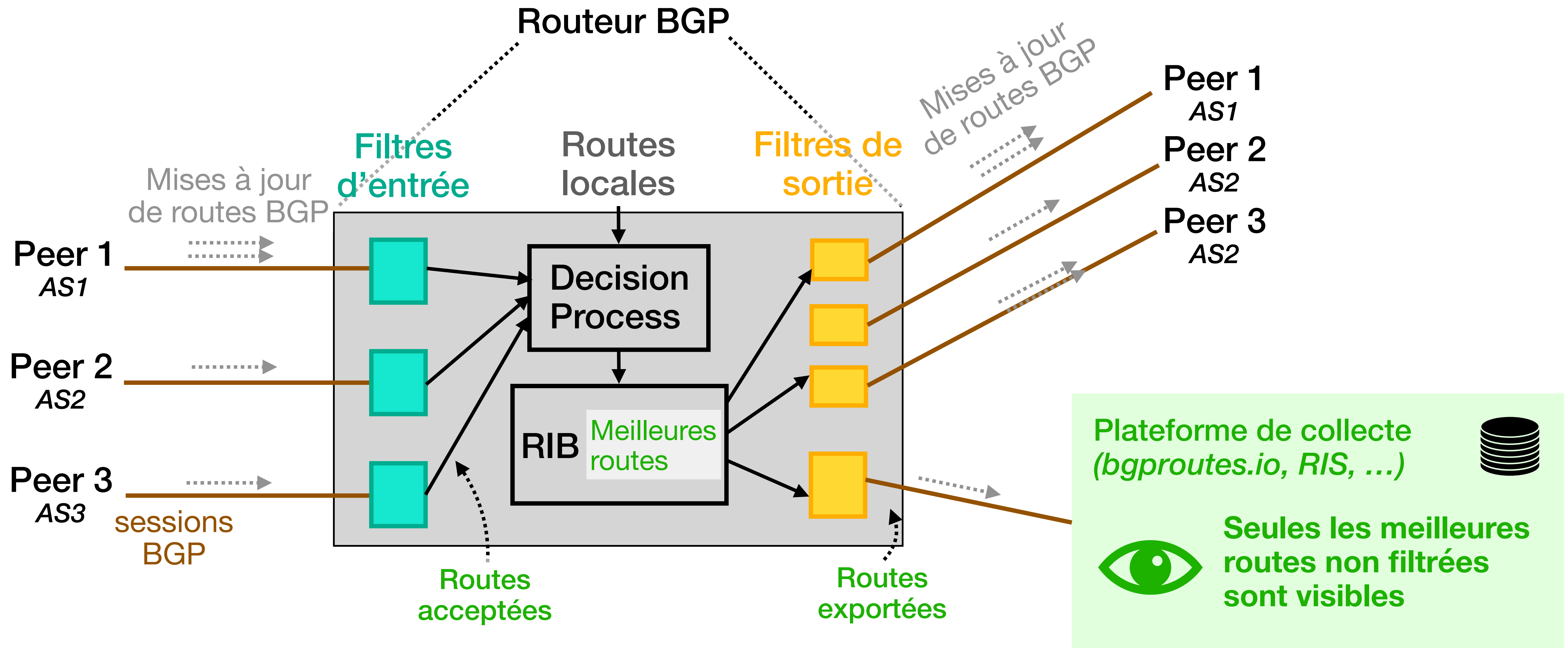
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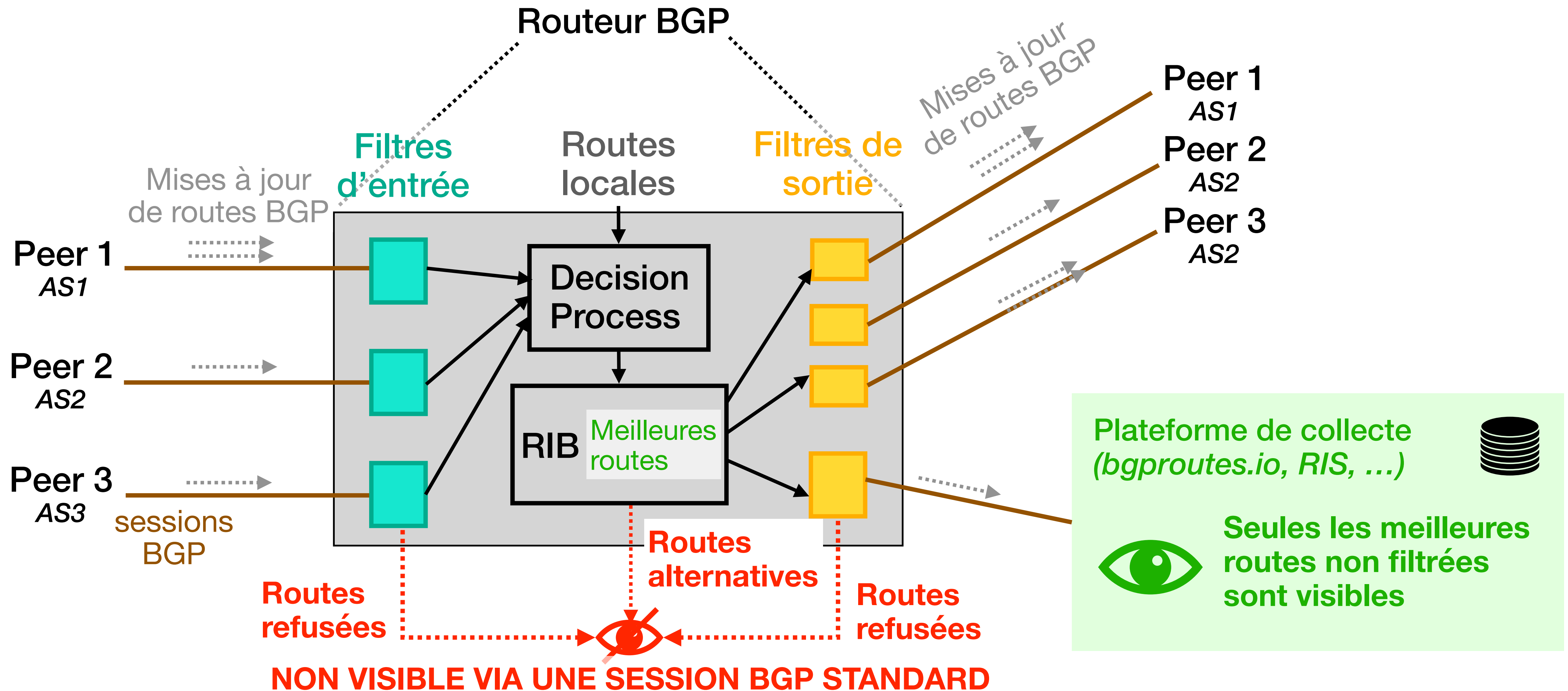
Quand un opérateur partage les données,
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Quand un opérateur partage les données, seulement un sous ensemble des routes sont visibles



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Plan

1. Augmenter le nombre de points de collecte est difficile

2. **BMP** à la rescousse

3. Comment se connecter

4. Comment superviser ses sessions

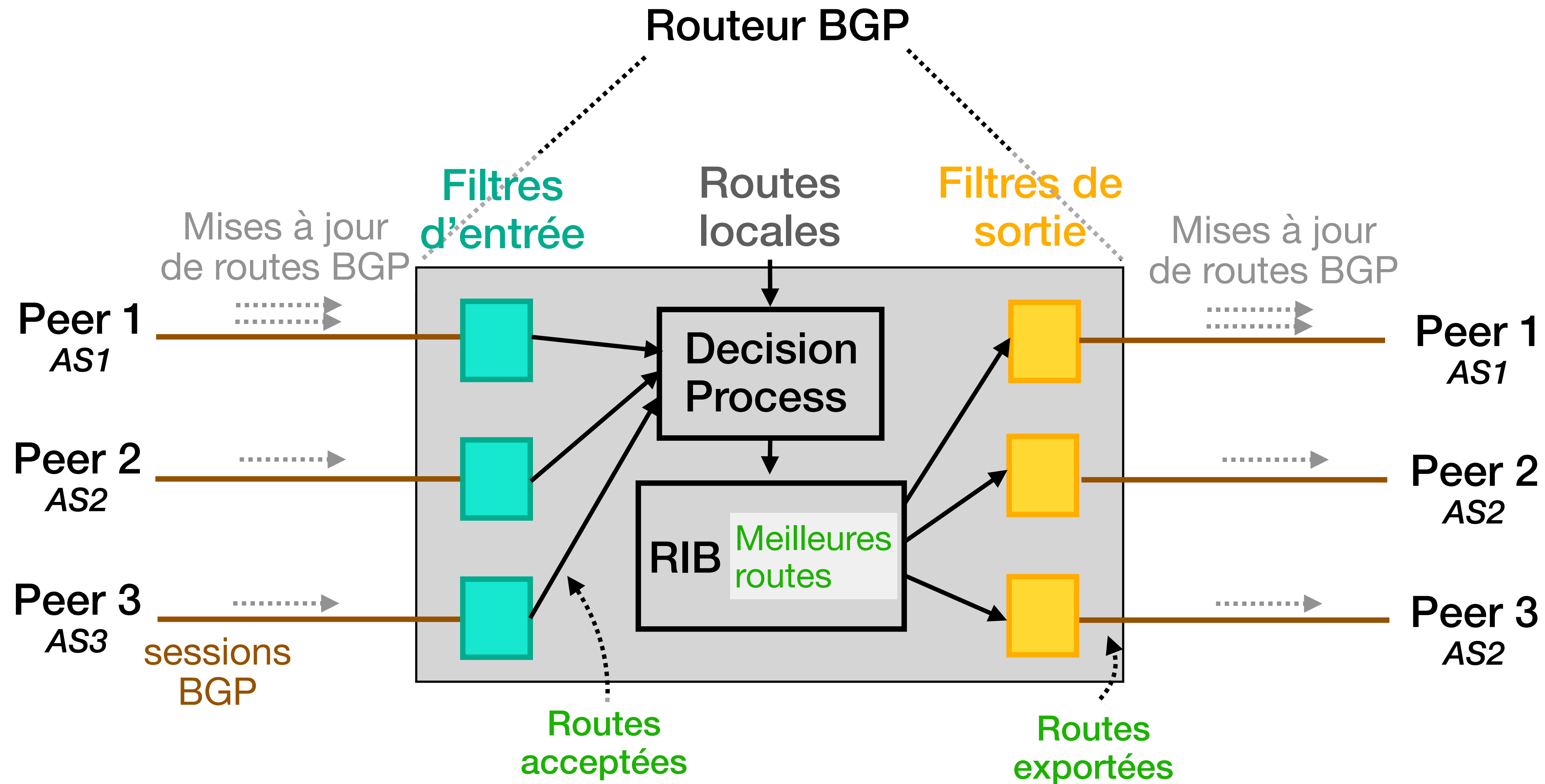
Le *BGP Monitoring Protocol* (BMP) a deux avantages fondamentaux comparé à des sessions BGP classiques pour du monitoring

BMP permet d'exporter toutes les mises à jour de routes:

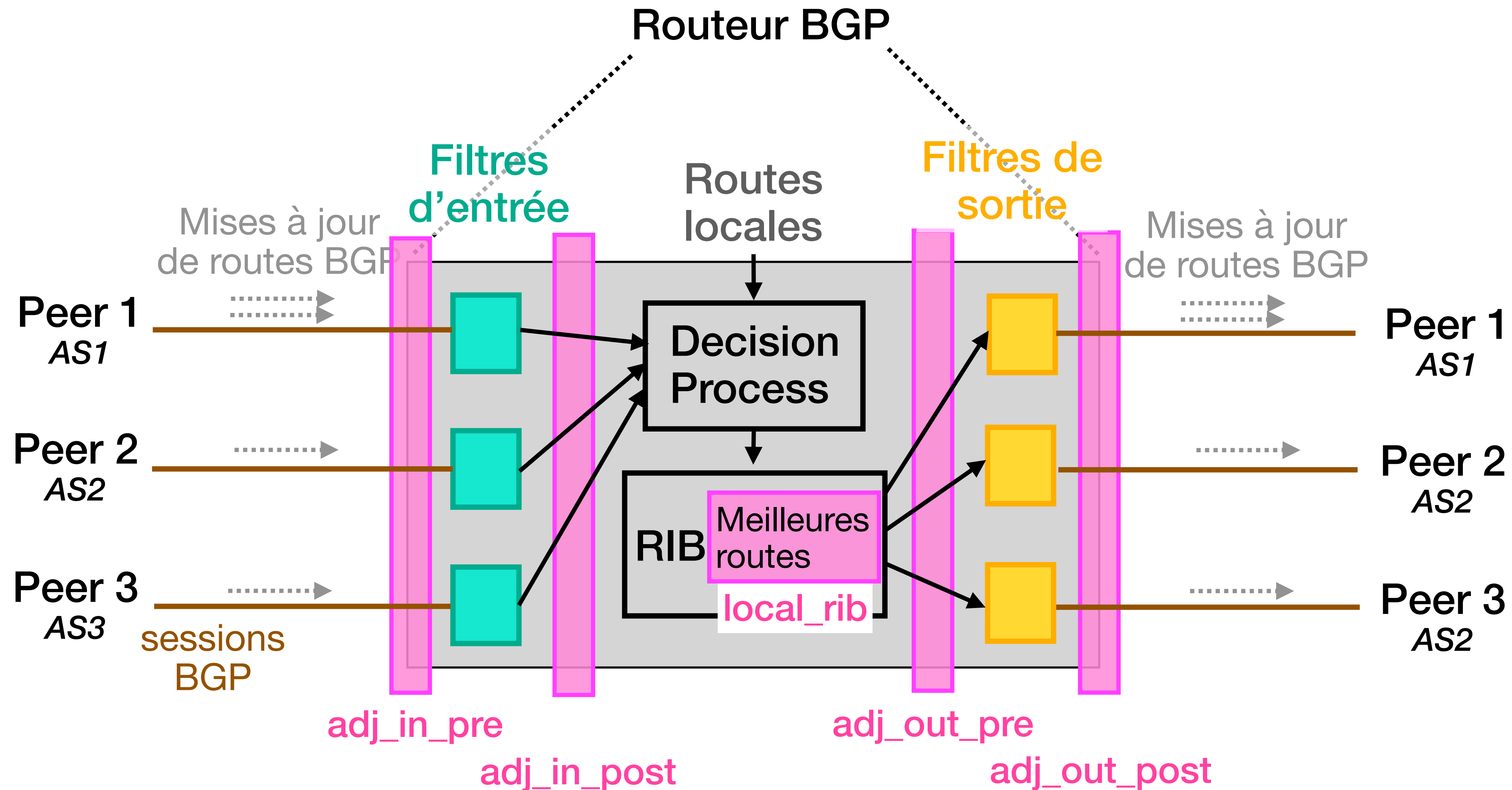
- ✓ pour chaque peer
- ✓ à chaque étape du processus BGP dans le routeur

➡ C'est simple à configurer

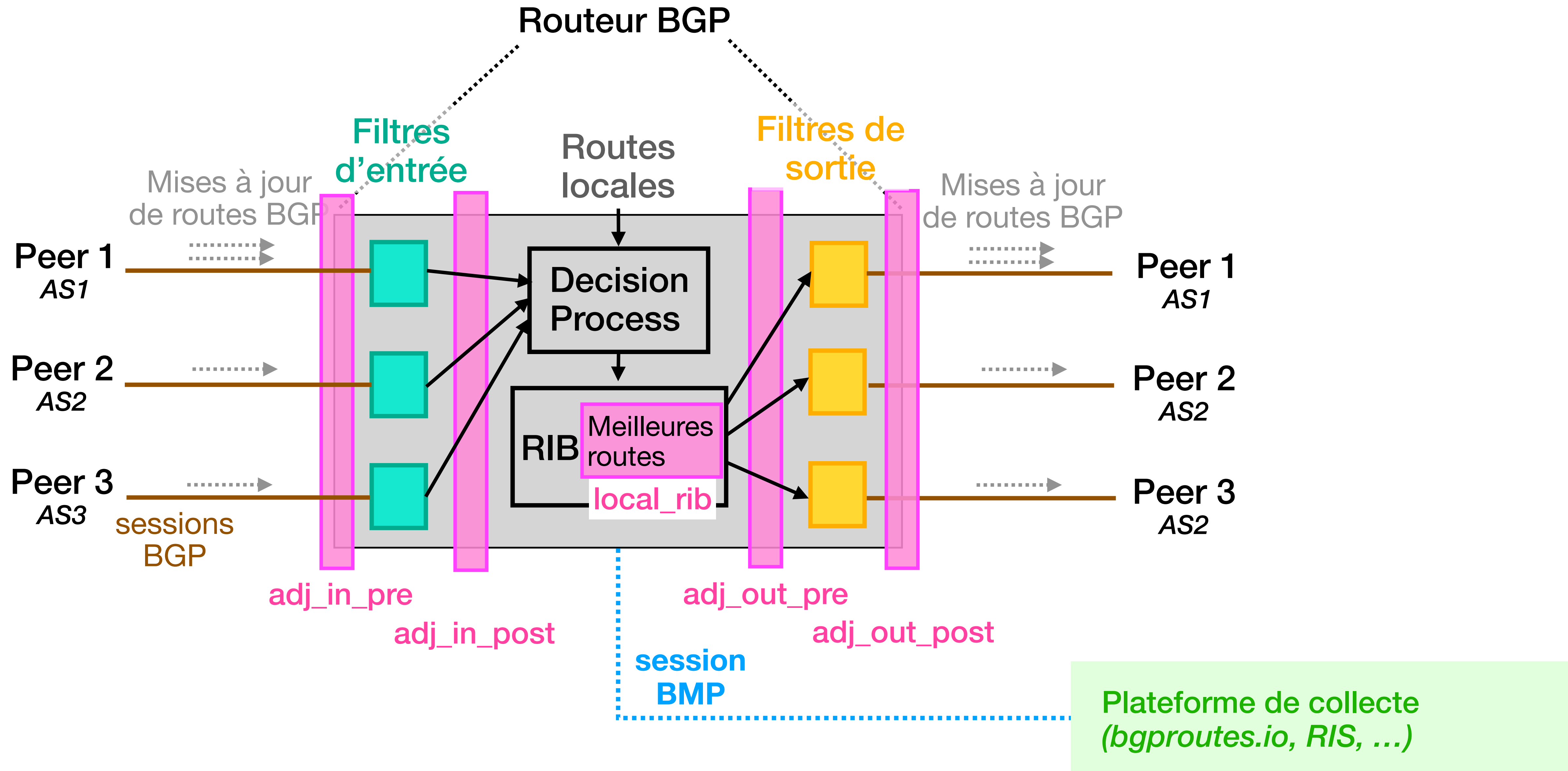
BMP permet de collecter les routes à chaque étape d'un routeur BGP



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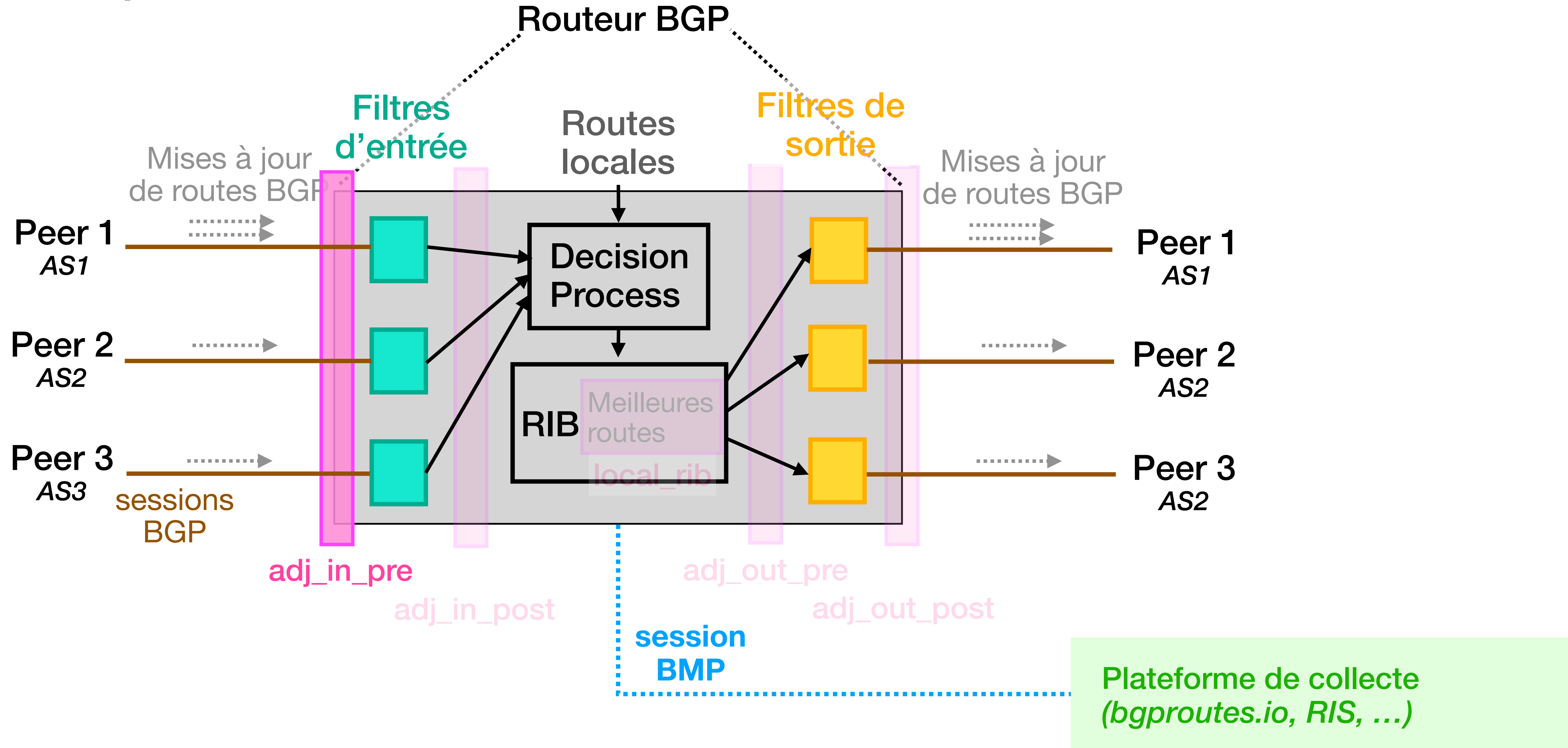


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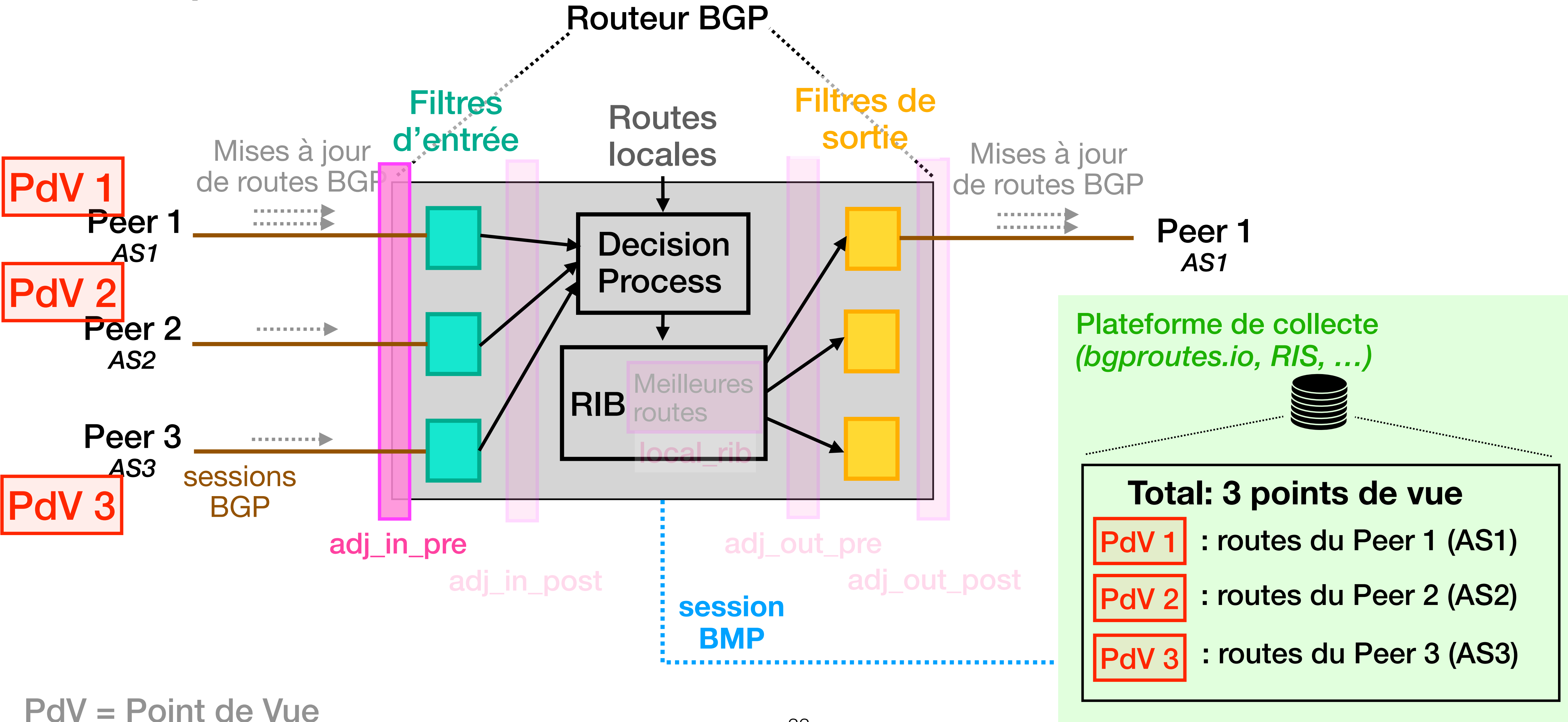


**On recommande d'exporter les données
à l'étape “adj_in_pre” seulement**

On recommande d'exporter les données à l'étape "adj_in_pre" seulement



On recommande d'exporter les données à l'étape "adj_in_pre" seulement



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1. Augmenter le nombre de points de collecte est difficile
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Se connecter à bgproutes.io avec BMP est entièrement automatisé

The image shows the header and main content area of the bgproutes.io website. The header is dark grey with the logo on the left, navigation links in the center, and action buttons on the right. The main content area has a dark blue background with a network diagram. It features a large heading, a descriptive paragraph, a search bar, and three promotional cards at the bottom.

bgproutes.io Services Vantage points

[Start peering with us!](#) [Log In](#)

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Coverage 1.7%

Platforms 5

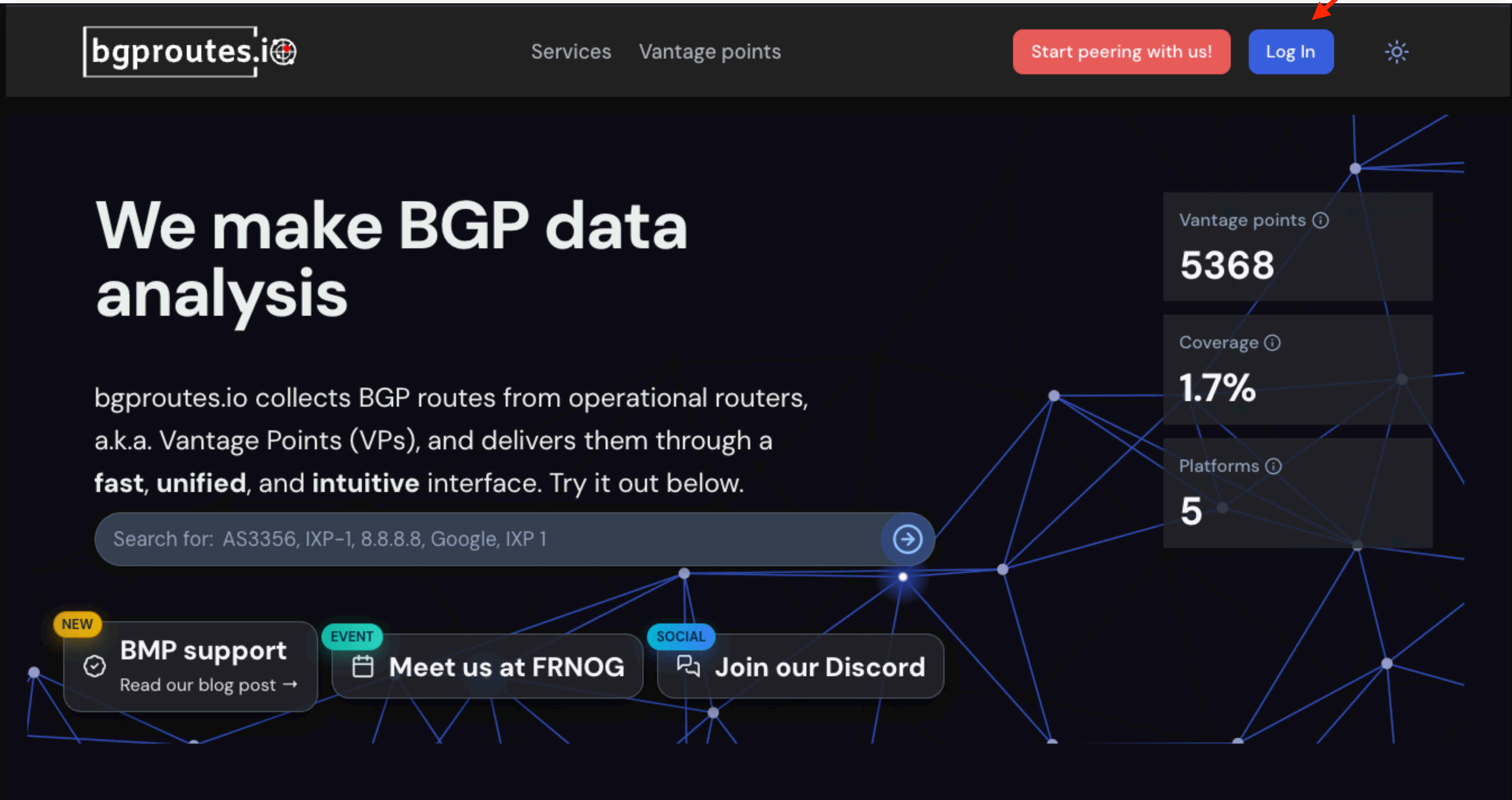
NEW **BMP support**
Read our blog post →

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SOCIAL **Join our Discord**

Se connecter à **bgproutes.io** avec BMP
est entièrement automatisé

1. Connexion avec votre
compte PeeringDB

The image shows the homepage of bgproutes.io. The header is dark with the logo on the left, navigation links 'Services' and 'Vantage points' in the center, and a red 'Start peering with us!' button and a blue 'Log In' button on the right. A red arrow points to the 'Log In' button. The main content area has a large heading 'We make BGP data analysis' and a paragraph explaining that the site collects BGP routes from operational routers (Vantage Points) and provides a fast, unified, and intuitive interface. Below this is a search bar with the text 'Search for: AS3356, IXP-1, 8.8.8.8, Google, IXP 1' and a search icon. On the right side, there are three statistics: 'Vantage points 5368', 'Coverage 1.7%', and 'Platforms 5'. At the bottom, there are three promotional cards: 'NEW BMP support' with a link to a blog post, 'EVENT Meet us at FRNOG', and 'SOCIAL Join our Discord'. The background features a network diagram with nodes and connecting lines.

bgproutes.io

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Se connecter à **bgproutes.io** avec BMP est entièrement automatisé

2. Cliquer sur le bouton
“*start peering with us*”

The screenshot shows the bgproutes.io website. The header includes the logo, navigation links for 'Services' and 'Vantage points', and buttons for 'Start peering with us!' (highlighted with a red arrow) and 'Log In'. The main content area features a large heading 'We make BGP data analysis' and a paragraph explaining that the site collects BGP routes from operational routers (Vantage Points) and provides a fast, unified, and intuitive interface. Below this is a search bar containing the text 'Search for: AS3356, IXP-1, 8.8.8.8, Google, IXP 1'. On the right side, there are three statistics: 'Vantage points 5368', 'Coverage 1.7%', and 'Platforms 5'. At the bottom, there are three promotional banners: 'NEW BMP support' with a link to a blog post, 'EVENT Meet us at FRNOG', and 'SOCIAL Join our Discord'.

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Vantage points ⓘ
5368

Coverage ⓘ
1.7%

Platforms ⓘ
5

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Se connecter à bgproutes.io avec BMP est entièrement automatisé

STEP #1 Submit your connection details

Select the VM with whom you want to connect.

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

5.78.83.182 (US-hillsboro) ▾

Enter the IP address your router will use to connect.

We'll use this to prepare our infrastructure to accept the connection from your router. Make sure your router uses this IP as the source address when establishing the BMP session.

Your IP address

Tell us in which AS is your router.

We use this information in our infrastructure and the public API.

2200 ▾

Exclude specific peers (optional)

Some routers (e.g., FRRouting) export BMP data for all BGP neighbors and don't let you choose which peers to include. If you'd rather not share data for specific neighbors, enter a comma-separated list of ASNs below. Any BMP updates coming from these ASNs will be ignored and not published.

e.g., 64496,64512

Use destination port 45678 when connecting your BMP router to bgproutes.io.

To ensure data quality and platform stability, we reserve the right to remove



3. Compléter le formulaire

Plan

1. Augmenter le nombre de points de collecte est difficile
2. BMP à la rescousse
3. Comment se connecter
4. Comment superviser ses sessions

bgproutes.io fournit une interface pour superviser vos sessions BGP et BMP

1. Cliquer sur le bouton “Your VPs”

The screenshot shows the bgproutes.io website. The header includes the logo, navigation links for 'Services' and 'Vantage points', a 'Start peering with us!' button, and a user profile icon. The user menu is open, showing options: 'Profile', 'Your VPs' (highlighted with a red box and an arrow from the instruction), 'API Keys', and 'Logout'. The main content area features the heading 'We make BGP data analysis' and a description of the service. On the right, a sidebar displays statistics: 'Vantage points 5113', 'Coverage 1.7%', and 'Platforms 5'. At the bottom, there are two promotional banners: 'NEW BMP support' and 'EVENT Meet us at the NLNOG Day'.

bgproutes.io

Services Vantage points

Start peering with us!

Profile

Your VPs

API Keys

Logout

We make BGP data analysis

bgproutes.io collects BGP routes from operational routers, a.k.a. Vantage Points (VPs), and delivers them through a **fast, unified, and intuitive** interface.

Vantage points ⓘ
5113

Coverage ⓘ
1.7%

Platforms ⓘ
5

NEW BMP support
Read our blog post →

EVENT Meet us at the NLNOG Day

bgproutes.io fournit une interface pour superviser vos sessions BGP et BMP

Your BGP sessions

Each of these sessions is a vantage point

ID ↕	ASN ↕	IP ↕	Organisation ↕	Platform ^	Platform's IP ↕	RIB size v4 ↕	RIB size v6 ↕	Status ↕	Actions ↕
1074	3927	198.180.150.120	 RGNET-IAD	bgproutes.io	185.216.75.11	994602	0	Up	Delete
1035	4128	157.238.224.206	 RGNET-DFW	bgproutes.io	185.216.75.11	1018198	0	Up	Delete
1094	3130	147.28.0.5	 RGNET-SEA	bgproutes.io	185.216.75.11	1000258	0	Up	Delete
706	3130	147.28.7.1	 RGNET-SEA	RouteViews		22	0	Up	
1753	3130	2001:418:1:7::1	 RGNET-SEA	RouteViews		0	228355	Up	
789	3130	147.28.7.2	 RGNET-SEA	RouteViews		999879	0	Up	
1625	3130	2001:418:1:7::2	 RGNET-SEA	RouteViews		0	228358	Up	

Your BMP sessions

These BMP sessions are operated by your ASN. Click "View the VPs" to see all BMP-derived vantage points.

ASN ▾	IP ↕	Organisation ↕	Platform ↕	Platform's IP ↕	# of VPs ↕	Actions ↕
4128	157.238.224.206	 RGNET-DFW	bgproutes.io	185.216.75.11	2	View the VPs Delete
4128	129.250.12.22	 RGNET-DFW	bgproutes.io	185.216.75.11	10	View the VPs Delete

7 sessions
BGP

bgproutes.io fournit une interface pour superviser vos sessions BGP et BMP

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706	3130	147.28.7.1	 RGNET-SEA	RouteViews		22	0	Up	
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4128	157.238.224.206	 RGNET-DFW	bgproutes.io	185.216.75.11	2	View the VPs Delete
4128	129.250.12.22	 RGNET-DFW	bgproutes.io	185.216.75.11	10	View the VPs Delete

2 sessions
BMP

Une seule session BMP avec RGNET exporte des données pour 10 PdVs

Your BGP sessions

Each of these sessions is a vantage point

ID	ASN	IP	Organisation	Platform	Platform's IP	RIB size v4	RIB size v6	Status	Actions
1074	3927	198.180.150.120	 RGNET-IAD	bgproutes.io	185.216.75.11	994602	0	Up	Delete
1035	4128	157.238.224.206	 RGNET-DFW	bgproutes.io	185.216.75.11	1018198	0	Up	Delete
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Your BMP sessions

These BMP sessions are operated by your ASN. Click "View the VPs" to see all BMP-derived vantage points.

ASN	IP	Organisation	Platform	Platform's IP	# of VPs
4128	157.238.224.206	 RGNET-DFW	bgproutes.io	185.216.75.11	2
4128	129.250.12.22	 RGNET-DFW	bgproutes.io	185.216.75.11	10

Nombre de PdVs
créés depuis ces
sessions BMP

Étendre la visibilité du routage BGP grâce à BMP

Thomas Holterbach
Université de Strasbourg

FRNOG, Paris
24 Octobre 2025

Collaborateurs:
Thomas Alfroy
Cristel Pelsser



**Connectez-vous à bgproutes.io
en 5 minutes chrono!**