

**D** Dashboard for  
**A** Autonomous  
**S** System  
**H** Health

NIR Workshop  
APRICOT 2025

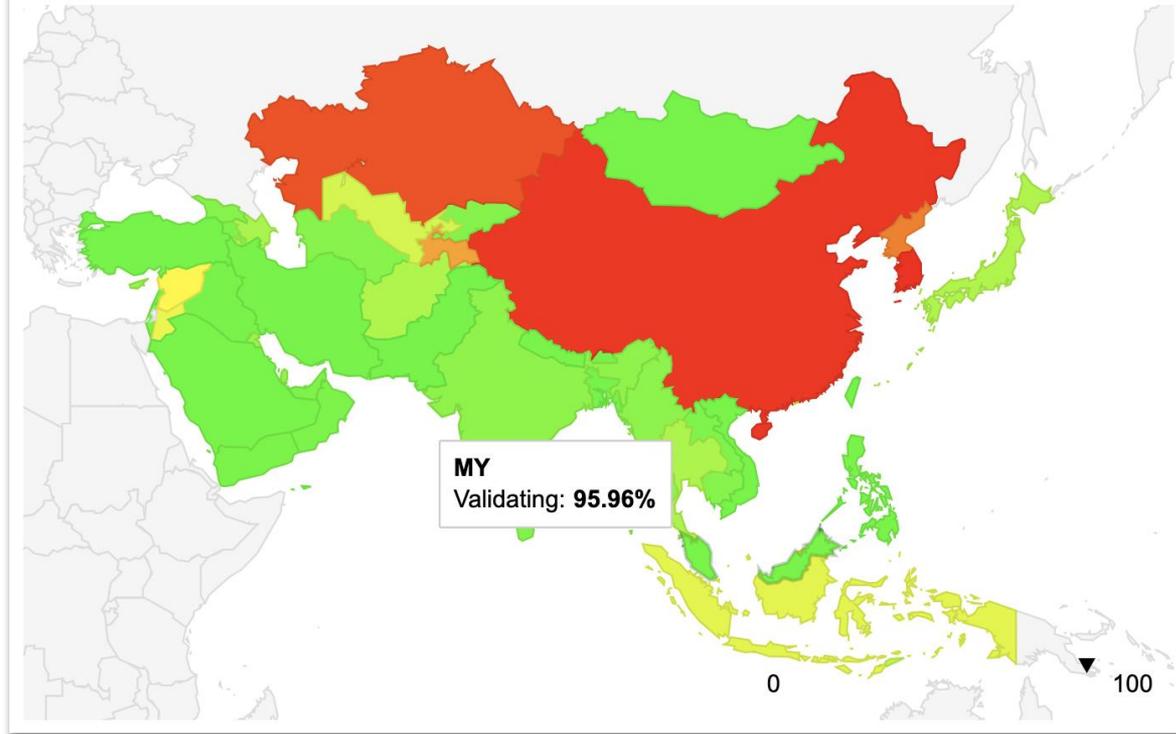
Vivek Nigam  
APNIC

# DASH Services

- Current Services
  - Routing status
  - Suspicious traffic
  - MANRS readiness score
  - Bogons

# RPKI ROA Uptake

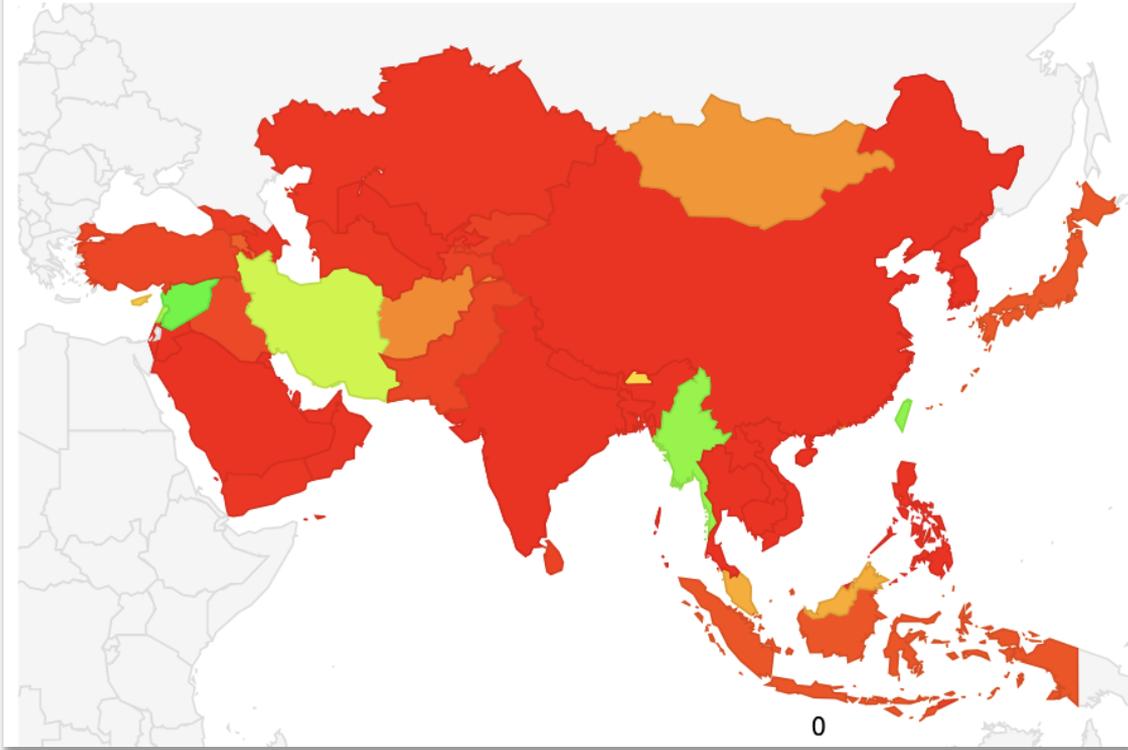
Region Map for Asia (142)



<https://stats.labs.apnic.net/roas>

# RPKI ROV uptake

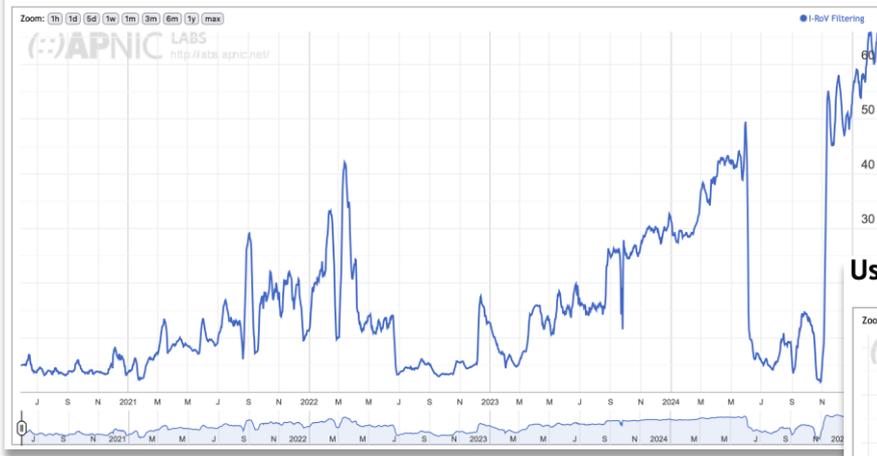
Region Map for Asia (142)



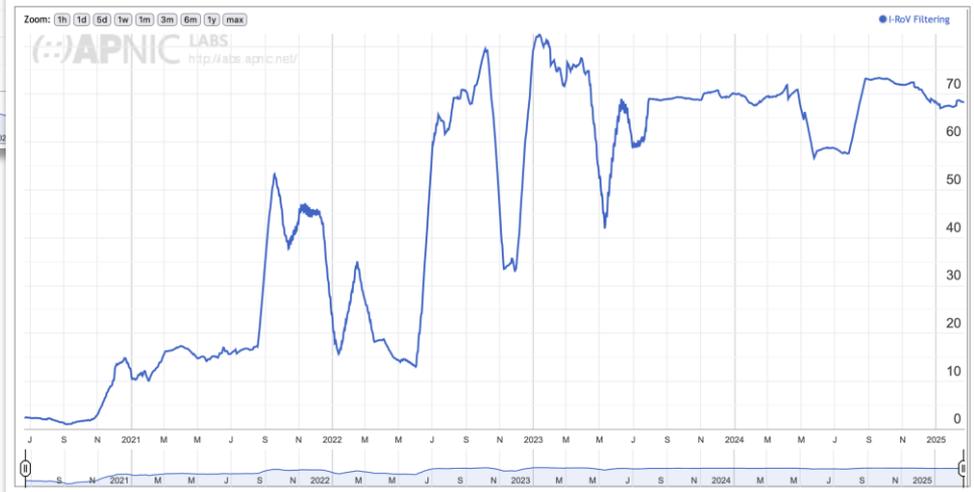
<https://stats.labs.apnic.net/rpki>

# Early adopters of ROV

Use of RPKI Validation for Myanmar (MM)



Use of RPKI Validation for Taiwan (TW)



# FAQs

- Visibility of our prefixes became low (29% 189/641) since we have changed the upstream provider, why?
- Why our prefixes show ROA invalid in [www.bgp.he.net](http://www.bgp.he.net), how to fix it?
- Our upstream provider sent us an email to create ROA as they are implementing ROV filtering, please support.
- Will there be any issues if I create ROA for my prefixes during peak hours? Do I need to create it overnight?

# Routing status

Provides a full picture of all BGP announcements for your network and track inconsistencies against RPKI ROAs and IRR Route Objects.

The screenshot shows a web dashboard for reviewing routing information. On the left is a dark sidebar with navigation items: Overview, Routing status (selected), Dashboard, Alerts, Suspicious traffic, Dashboard, Alerts, MANRS readiness, and Latest security news. Below these are 'Useful links' for Help, Data sources, and Disclaimer.

The main content area is titled 'Review the routing information of your network' with the subtitle 'Prevent network misconfigurations and detect BGP hijacks.' It features an 'Overview of inconsistencies' section showing 'Total inconsistencies found' as 0. Below this, it states 'Status of ROAs and route objects as seen in BGP:' and displays two metrics: 'ROA mismatches' (0) and 'Route object mismatches' (0).

The 'Routing status for your prefixes' section includes a 'Show' dropdown set to '20 entries' and a search box 'Search by prefix or ASN'. A filter section shows 'Filter by:  ROA issues  Route object issues'. Below is a table with the following data:

Prefix	BGP route	Origin AS	ROA	Route object
1.112.0.0/14	1.112.0.0/14	AS17676	Published	Published
36.240.0.0/13	36.240.0.0/14	AS17676	Published	Published
36.240.0.0/13	36.244.0.0/14	AS17676	Not published	Published
60.64.0.0/12	60.64.0.0/16	AS17676	Published	Published
60.64.0.0/12	60.65.0.0/16	AS17676	Published	Published

# ROA mismatch example

## ROA mismatch for 203.147.108.0/23 ✕

**Reason:** The origin AS in the BGP announcements does not match the origin AS in the corresponding ROA (Route Origin Authorization).

Origin AS in **BGP** is:

AS24021

Origin AS in **ROA** is:

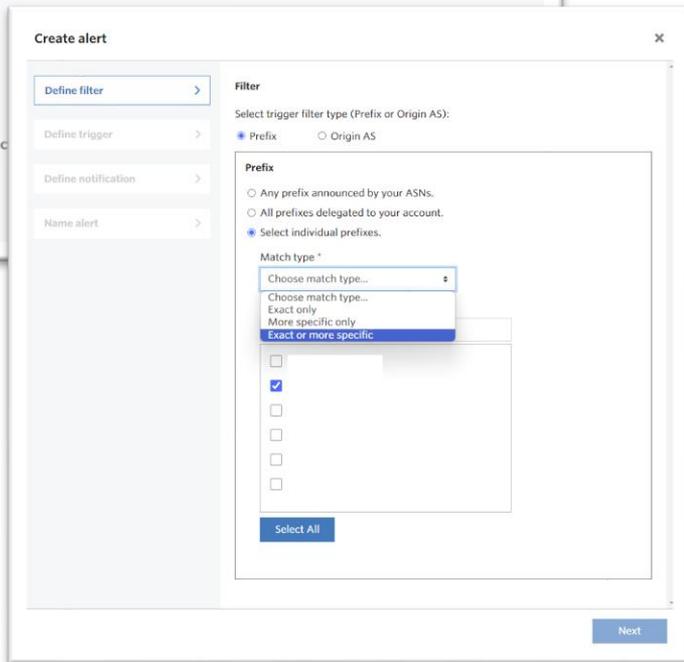
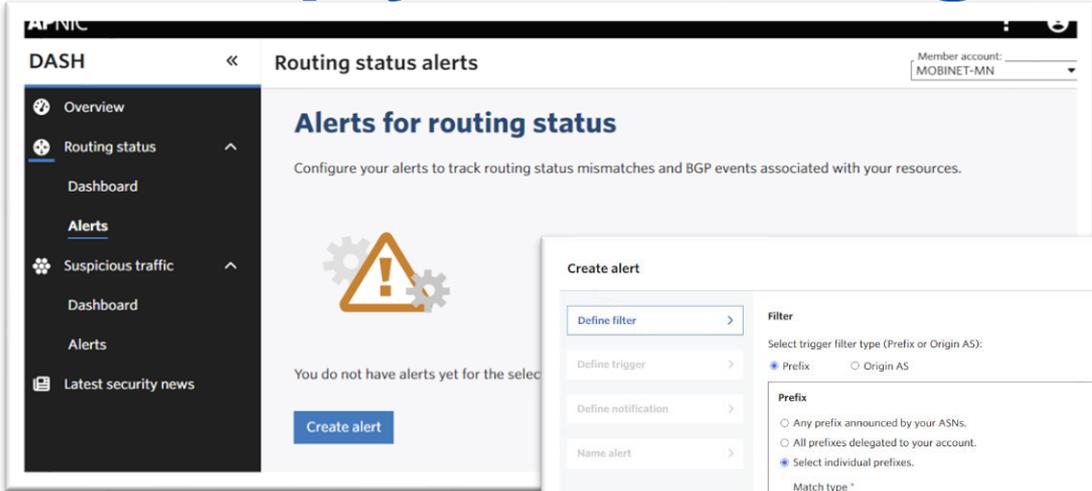
AS45163 (203.147.108.0/23, /23 - /23)

### Required actions:

- If you did not expect this origin AS in BGP, review your routing configurations to evaluate if there is a misconfiguration or a BGP prefix hijack. [Learn more about BGP hijacking.](#) ▼
- If you did not expect this origin AS in the ROA, review the ROA for this prefix.

Close

# Set up your Routing status alerts



Email



SMS



Slack



WhatsApp



Webhooks



# Routing status alert

## Routing status alerts

### Overview

**⚠ You have firing alerts** 1

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**Last firing alert** (last 7 days)

**Alert name:** BGP route not exist

**Timestamp:** 22-08-2024 13:41 +10:00

**Trigger:** 192.82.88.0/22

**Incident:** Route doesn't exist (192.82.88.0/22)

[More details](#)

## Type of alerts

- BGP route not exist
- RPKI/ROA mismatch with BGP – prefix length in BGP vs ROA record
- BGP Hijacking

Routing Status Alert Triggered from DASH: DASH alerts

 **do-not-reply@apnic.net** <do-not-reply@apnic.net> on behalf of **do-not-reply@apnic.net** <do-not-reply@apnic.net> Sunday 9 February 2025 at 6:01am

To: Vivek Nigam

Greetings,

This is a routing status alert from DASH.

Your alert *DASH alerts* has been triggered.

Timestamp: 08 February 2025 22:01 UTC  
Trigger: 202.125.96.0/23  
Incident: Route Object not published (202.125.96.0/23)

Best regards,  
APNIC

Learn more about DASH at <https://dash.apnic.net/>

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You received this notification because your email address was set as a DASH alert recipient. If you created the alert, you can log into DASH and edit your alert preferences.

# Suspicious traffic

- Track and be alerted about suspicious traffic originating from your networks.
- Suspicious traffic is detected by APNIC's Community HoneyNet Network, with more than 200 points of data collection mostly in the Asia Pacific region but with nodes in Central and South America, USA and Europe.

- Overview
  - Routing status
  - Dashboard
  - Alerts
  - Suspicious traffic
    - Dashboard
    - Alerts
  - MANRS readiness
  - Latest security news
- Useful links
- Help
  - Data sources
  - Disclaimer

### Review suspicious traffic coming from your network

Latest 30 days | Get report

Data source

#### Your network at a glance

##### Your network

89.6%

Current period: 24 Oct - 22 Nov

2.5K hits

Previous period: 24 Sep - 23 Oct

24.3K hits

##### Japan

66.1%

Current period: 24 Oct - 22 Nov

171.9K hits

Previous period: 24 Sep - 23 Oct

506.9K hits

##### Eastern Asia

31.6%

Current period: 24 Oct - 22 Nov

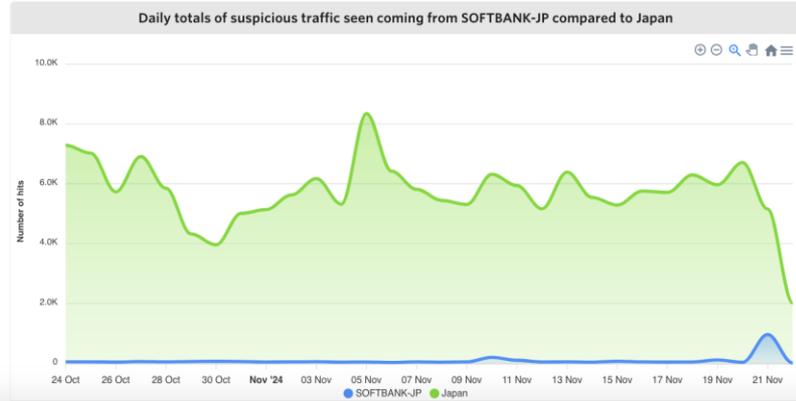
19.7M hits

Previous period: 24 Sep - 23 Oct

28.8M hits

#### Your network compared to Japan

Japan | Eastern Asia | Japan - Eastern Asia



-  Overview
-  Routing status ^
- Dashboard
- Alerts
-  Suspicious traffic ^
- Dashboard
- Alerts
-  MANRS readiness
-  Latest security news

## Your network top offending prefixes ?

Expand all prefixes Collapse all prefixes Show 10 prefixes ▾

Type a prefix 

Prefix	Type of Attack	Hits	
<b>60.146.0.0/16</b> ▾	SSH	731	<div style="background-color: #333; color: white; padding: 5px; border: 1px solid #ccc;">  Download data ▾ </div> <div style="background-color: #ccc; padding: 5px; border: 1px solid #ccc;">Summary</div> <div style="padding: 5px; border: 1px solid #ccc;">Individual hits</div>
<b>60.140.0.0/16</b> ▲	telnet	308	
60.140.163.90	Dest. port: 23	308	
<b>60.128.0.0/16</b> ▲	SSH	216	
60.128.8.146	Dest. port: 22	216	
<b>126.47.0.0/16</b> ▲	SSH	202	
126.47.103.194	Dest. port: 22	202	
<b>126.79.0.0/16</b> ▲	telnet	87	
126.79.250.66	Dest. port: 23	87	
<b>126.37.0.0/16</b> ▲	telnet	81	

# Bogons in Routing table

- There are 179 separate Bogon prefixes announced and 40 Bogon ASNs visible on the internet (APNIC resources only)
- These bogons could be the source of number of attacks, malicious traffics

Member query on Bogon prefixes attempt:

An IP address within your delegated space is currently involved in an ongoing brute force attack against the following services:

\* SSH (Secure Shell)

We have observed more than 6 login attempts within a 6 hour period originating from the following IP address:

103.104.171.74

We last observed a malicious login attempt from this IP address at 2025-02-17 06:21:56 UTC.

SSH (Secure Shell) (6801 total)

Date Source IP Target IP

2025-02-17 06:21:56 103.104.171.74 203.29.240.0/24

2025-02-17 06:21:53 103.104.171.74 203.29.240.0/24

2025-02-17 06:21:49 103.104.171.74 203.29.240.0/24

# Bogons in DASH

## Overview

About this page ?

### Bogon prefixes

announced by your networks

● Originated	0
● Propagated	0

### Bogon ASNs

announced by your networks

● Direct peer	0
● Propagated	0

## Active bogon prefixes

No active bogon prefixes.

## Active bogon ASNs

No active bogon ASNs.

## Resolved bogon prefixes

Last 7 days

All

No resolved bogon prefixes in last 7 days.

## Resolved bogon ASNs

Last 7 days

All

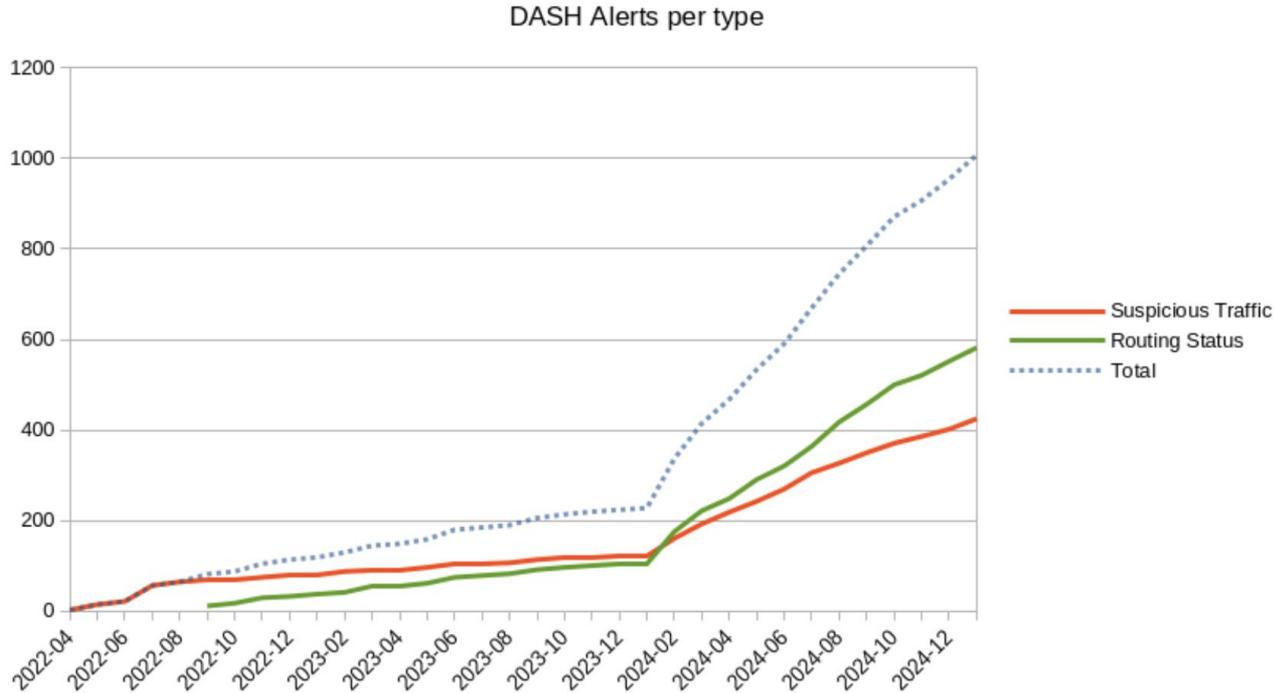
No resolved bogon ASNs in last 7 days.

It demonstrates:

- Whether your ASN is
  - Announcing or propagating Bogon IP address
  - Directly peering or propagating Bogon ASNs

# DASH stats

- 1,188 view in the DASH overview page in the last 30 days



# Questions?