



**RIPE NCC**  
RIPE NETWORK COORDINATION CENTER

# Personal ASNs

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An overview



# **Personal ASNs**

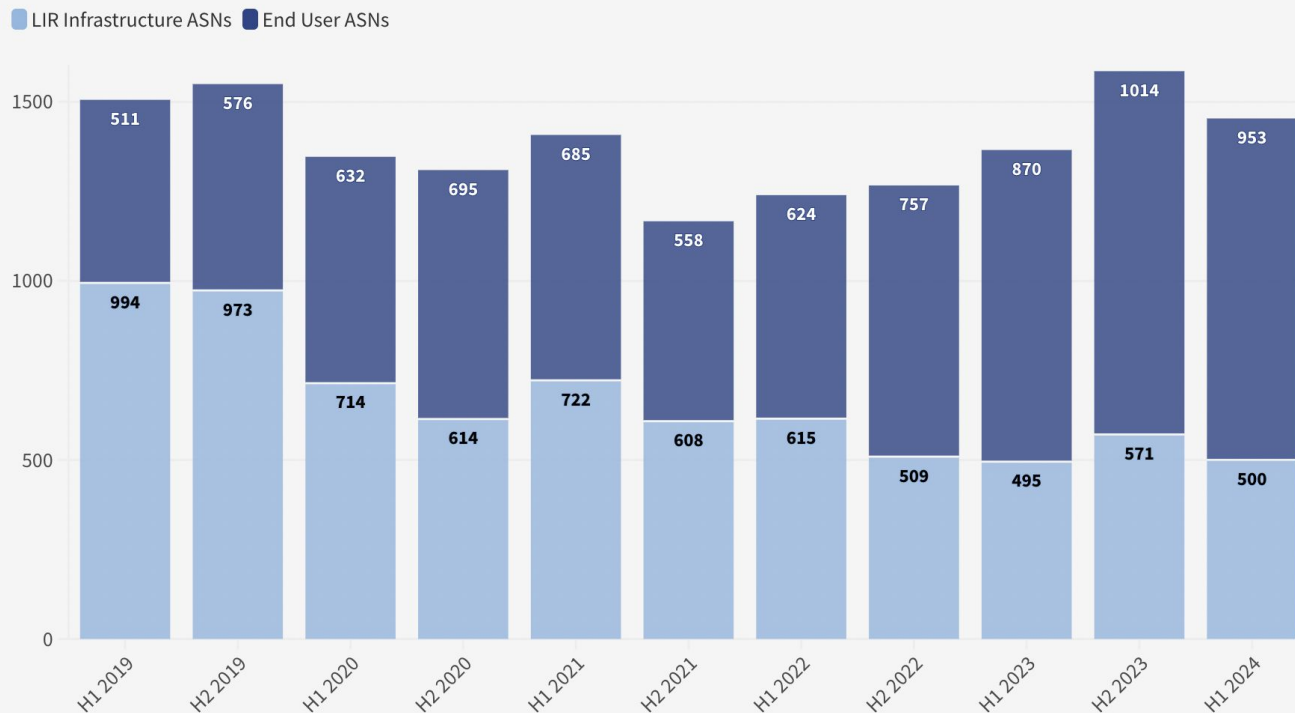
## **As seen in the RIPE Registry**

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# ASN Requests LIRs and End User



It takes an estimated extra hour on average for an Internet resource analyst to process an End User ASN request compared to an LIR Infrastructure ASN request.



# Natural person ASNs over time



The RIPE NCC does not distinguish 'personal ASNs'.

ASNs are registered to 'legal entities' or 'natural persons'.

We have seen continued growth in registration of natural person ASNs.

**4,391 natural person ASNs today**





# **Personal ASNs**

## **As seen in the wild**

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# Natural person ASNs and personal use ASNs



## Comparisons

Of the 1,421 'personal use' ASNs on **bgp.tools**, 1,300 are in the RIPE NCC registry.

Of the 4,391 'natural person' ASNs in the RIPE NCC registry, 1,235 (28%) are also 'personal use' ASNs

Only 65 (5%) of 'personal use' ASNs are not registered to natural persons.

1,421 personal use ASNs in **bgp.tools**

## RIPE NCC Registry

4,391 'natural person' ASNs

1,300 'personal use' ASNs

1,235

65

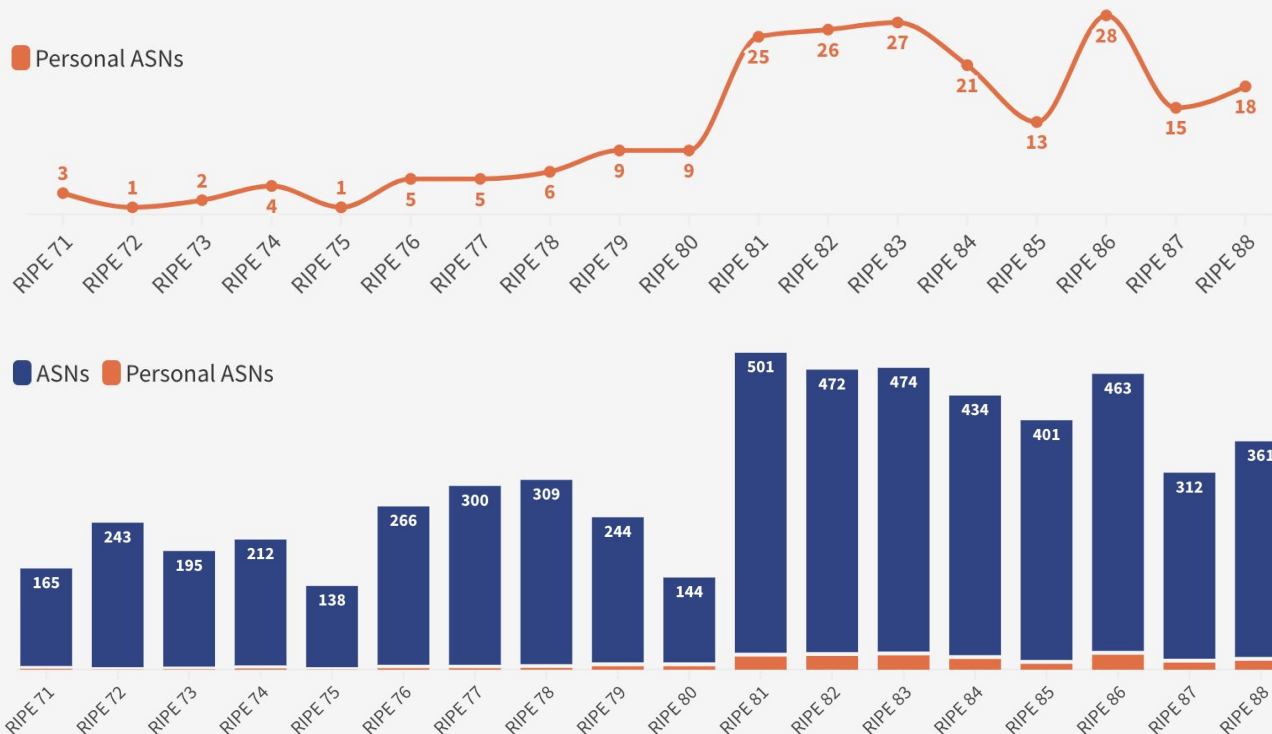
# Are Personal Use ASNs represented at RIPE meetings?



## RIPE Meetings

Comparing ASNs that people fill out at meeting registration, we see that personal use ASN participation increased over time

Big jump from 1-2% prior to RIPE 80 (first virtual meeting) to 5-6% since.



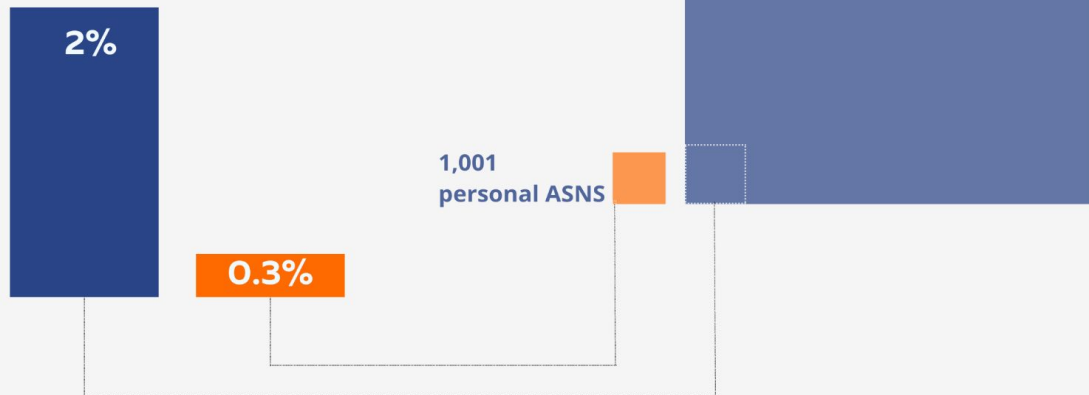


## Suspicious BGP Events

ASNs labeled 'hijacker' in Cloudflare data in 2024

Only 3 (0.3%) personal use ASNs appear in the dataset (lower % than other ASNs)

% of ASNs involved in 'suspicious' BGP events

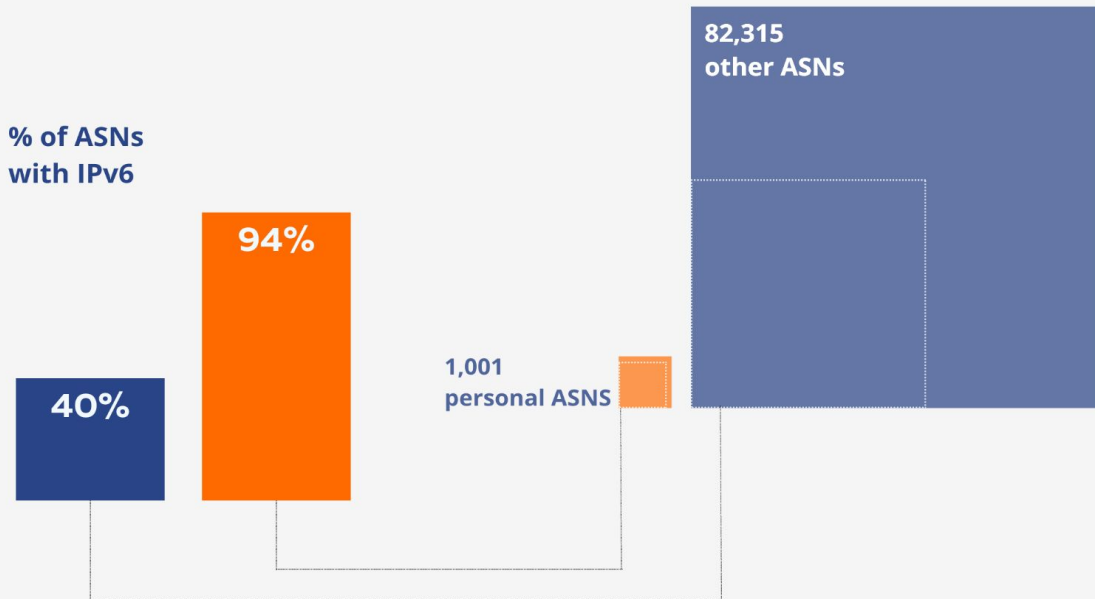






## IPv6

% of ASNs announcing IPv6  
is high among personal use  
ASNs (94%)

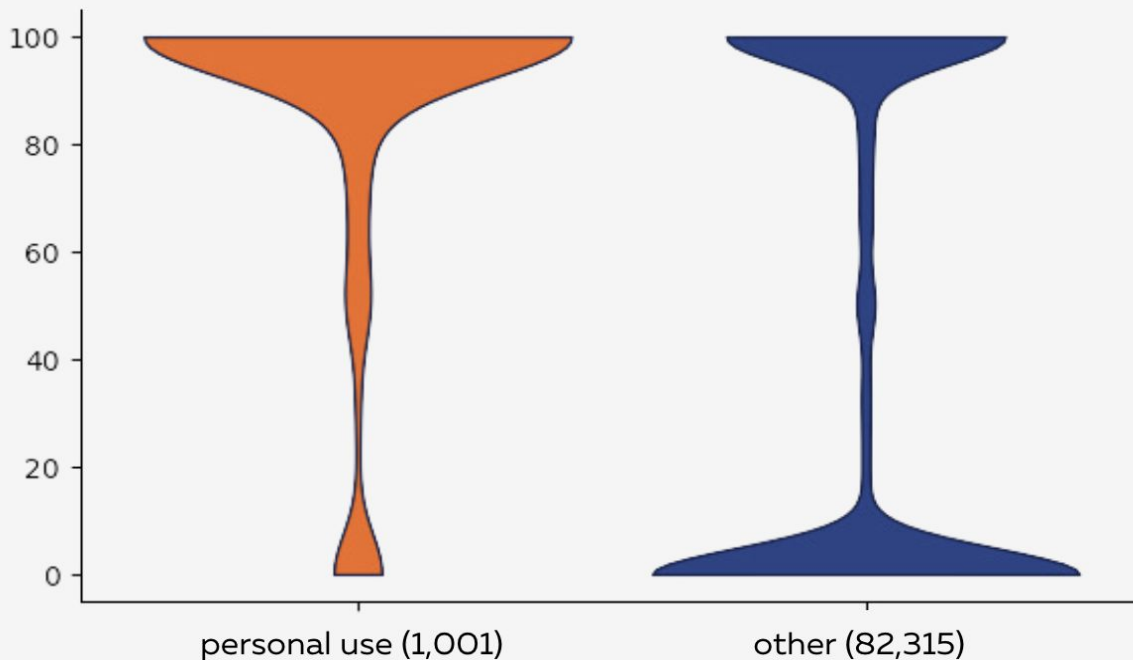




## RPKI

RPKI uptake is higher for personal use ASNs.

% of RPKI-valid prefixes per ASN





## Summing up

'Personal use' ASNs in the RIPE NCC registry are predominantly 'natural persons', but only 28% of natural person registered ASNs are 'personal use'.

'Personal use' ASNs vs. other ASNs:

- Less involved in suspicious BGP events
- More technology uptake in IPv6 and RPKI