



The Easy Button

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ACCOUNT MANAGER

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RPKI

Get Resource Certificate or Manage ROAs

IRR

Manage Your Objects

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Ask ARIN

Create a help desk ticket

RPKI: Create ROA

Org ID: Hosted RPKI: [Overview](#) [ROAs](#) [Certified Resources](#)

Create route origin authorizations (ROAs) for the resources covered by your RPKI certificate.

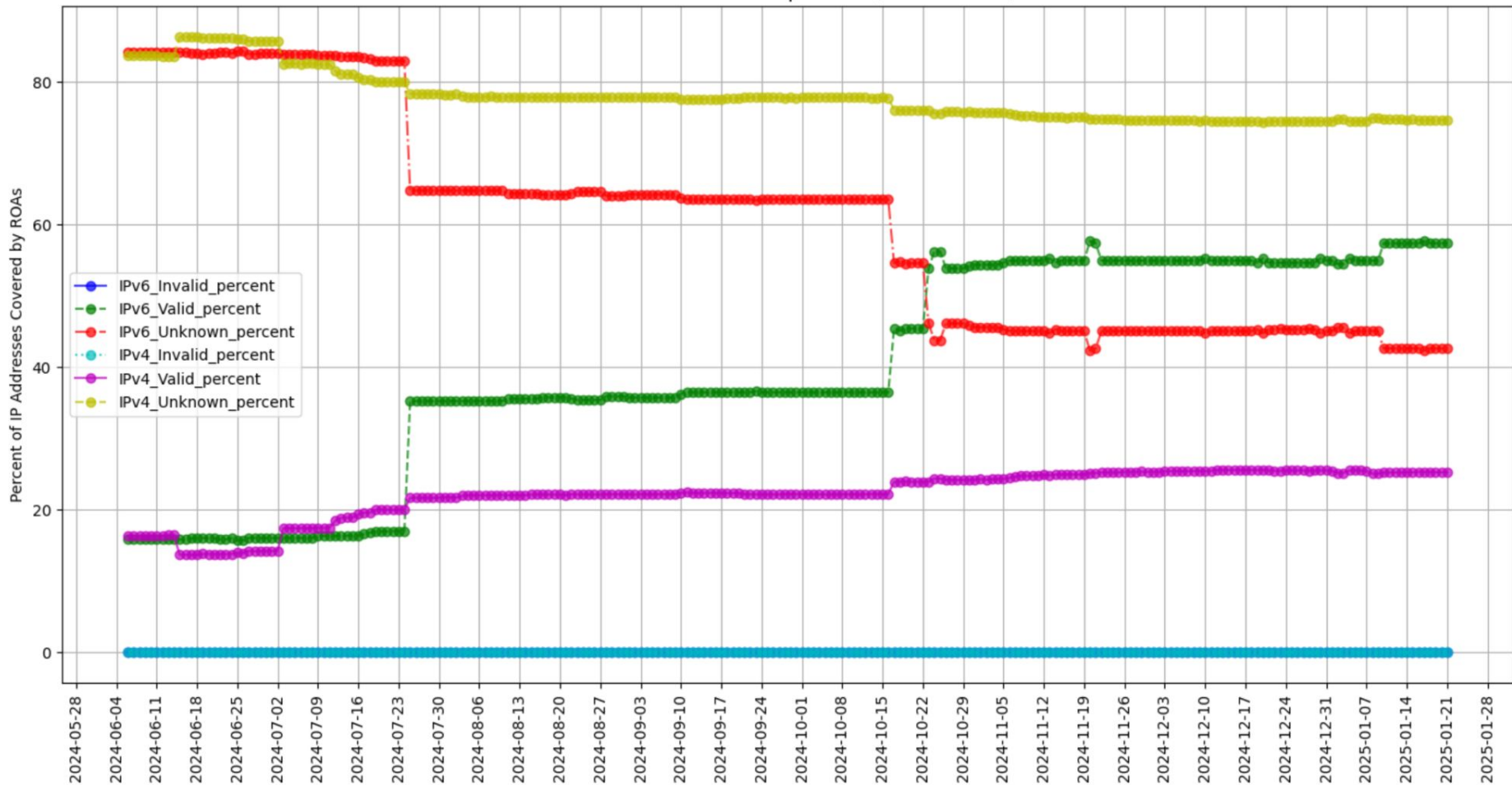
Create a Route Origin Authorization (ROA)

*Origin AS: Prefix *Prefixes: Max Length ROA Name:

Optional: Provide a helpful nickname, such as DDOS_Mitigation



IPv4 and IPv6 RPKI ROV Status Over Time Internet2 Network Participants RE (excludes I2PX)



As of 25-July-2024, IP addresses from rejected routes aren't included.

July 10th, I arrived at the [X-Lazy-F Ranch](#), part of my vacation.

July 11th, I checked my email....



[July 11th email from an Internet2-connected Network]

Hi Steve,

Here's a fun one I'm hoping you could shine a light on for me:

We own X.X.0.0/16 and announce it to the internet as a /16. Within our network, its cut up into several smaller blocks. One of those blocks is X.X.X.0/24. Well, it would appear that ASXXX is announcing that /24 and originating it and they should not be. A customer called in and is experiencing issues. **Is there something I can do on my end to mitigate this?**



Create a Route Origin Authorization (ROA)

* denotes required field

*Origin AS:

Prefix ?

Max Length ?

*Prefixes:

+ Additional Prefix

ROA Name:

Optional: Provide a helpful nickname, such as DDOS_Mitigation

~~Easy Button~~

DDoS Scrubbing Services can make ROA planning more complex

Many Internet2 members that participate in their DDoS service may require three ROAs per prefix:

1. The expected “normal” ROA (prefix and normal origin AS)
2. A ROA to accommodate a DDoS diversion (prefix, MaxLen=24, and regional network AS)
3. A ROA to prevent the Radware IRR route object from being suppressed (prefix and Radware’s origin AS)

I2-based online resources

- Orgs that can create ROAs today

<https://internet2.edu/network/initiatives-partnerships/routing-integrity/protect-your-network-with-rpki/rpki-ready/>

- A bit more information on RPKI-ROAs

<https://internet2.edu/network/initiatives-partnerships/routing-integrity/protect-your-network-with-rpki/>

- I'm happy to meet with you and assist with created your RPKI-ROAs. Just send me an email with times and dates that work for you (ssw@internet2.edu)

Planning the ROA

- Review IRRexplorer output

<https://internet2.edu/network/initiatives-partnerships/routing-integrity/protect-your-network-with-rpki/rpki-ready/>

- Review the [Internet2 route report](#) to see if more specifics are announced
- Does your network use a DDoS scrubbing service
- Always create more specific ROAs first
- If you make a mistake, create a new corrected ROA, and delete the mistaken ROA next

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