

# RPKI-ROA Planner, and more

Steven Wallace  
ssw@internet2.edu



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# RPKI-ROA Planner

## A tool to make ROA creation easier and safer

- For a given IP prefix, the tool presents candidate ROAs based on likely routes derived from IRR route objects, currently observed Internet routes, and historical routing data.
- The user selects which routes apply, and the tool identifies the ROAs to create and the safest order in which to create them.

# RPKI-ROA Visualizer

A tool for understanding how RPKI Route Origin Validation works in BGP

- Given an RPKI-ROA (Prefix, MaxLen, and Origin AS) and a BGP route (Prefix and Origin AS)
- Show how to determine if the ROA covers the BGP route, bit by bit
- Show the list of covered subnets
- Show the process of Route Origin Validation of the ROA against the route.

# RPKI-ASPA Planner

An **EXPERIMENTAL** tool to assist network operators build an ASPA (Autonomous System Provider Authorization) object for RPKI.

- Given an ASN (autonomous system number)
- Based on CAIDA AS relationship data (and some magic)
- Suggest a possible ASPA

# Demo RPKI-ROA Planner

<https://rootbeer.internet2.edu/roa-planner/prefix/129.114.0.0%2F16>

<https://rootbeer.internet2.edu/roa-planner/prefix/2605%3A2800%3A%3A%2F32>

<https://rootbeer.internet2.edu/roa-planner/prefix/131.187.0.0%2F16>

# Demo RPKI-ROA Visualizer

# Demo RPKI-ASPA Planner

<https://rootbeer.internet2.edu/aspa/asn/19782>

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