### RPKI Status

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### Three Pieces

- RPKI Resource Public Key Infrastructure, the Certificate Infrastructure to Support the other Pieces (deployed at all RIRs)
- Origin Validation Using the RPKI to detect and prevent mis-originations of someone else's prefixes (in deployment)
- AS-Path Validation AKA BGPsec Prevent Path Attacks on BGP (future work)

# RPKI at the Registries

- RIPE seriously deployed with a few thousand LIRs and thousands of ROAs
- APNIC is operational, 550 LIRs, and moving forward, moving to RIPE's GUI
- · ARIN is doing lawyering not engineering
- · LACNIC is deployed and has O(100) LIRs
- · AFRINIC is deployed with O(25) LIRs

### Per-RIR Statistics



# Router Origin Validation

· Cisco IOS - solid in 15.2

Cisco IOS/XR - shipped in 4.3.2

• Juniper - shipped in 12.2

AlcaLu - in development

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