ROA Misconceptions

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People say “Invalid ROA”
You Should Never See One
RP Software Will Not Let You
A ROA is Invalid only if the signing chain to the Trust Anchor fails
The Validity of a ROA has NOTHING to do with a BGP announcement.
A ROA may or may not cause a BGP announcement to be marked as Valid or Invalid.
AS Not Responsible

- ROA  1.2.3.0/24-24 AS42
- AS 42 has no responsibility for this ROA
- They did not consent, were not asked
- They may announce in BGP or not
- If it makes your announcement Invalid
  - Fix the ROA to have the correct AS, or
  - Add a new ROA with the correct AS
It takes only one ROA to make a route Valid
392 ROAs which mark an announcement as Invalid make no difference