

Architecture and ROA Format

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Presentation Outline

- CP and CPS drafts
- Changes to architecture draft
- Open issue in ROA Format
- Questions

CP and CPS drafts

Current Versions:

- draft-ietf-sidr-cp-02
- draft-ietf-sidr-cps-irs-02
- draft-ietf-sidr-cps-isp-01

No open issues, but need more review

Architecture Draft

- ❑ Changes in draft-ietf-sidr-arch-02
 - Example for use with private address space
 - Clarified scope: only IPv4 and IPv6 address families
 - Rewrite of manifest section
(Note: Manifest section will be greatly condensed in -03)

- ❑ No open issues

ROA Format Draft

- ❑ No change to draft-ietf-sidr-roa-format-01

- ❑ Current version:
 - Exact match between ROA addresses and EE certificate RFC 3779 extension

 - Flag in ROA to format choose between
 - Exact match between ROA addresses and NLRI in route advertisement
 - NLRI in route advertisement may be more specific than IP address prefix in ROA

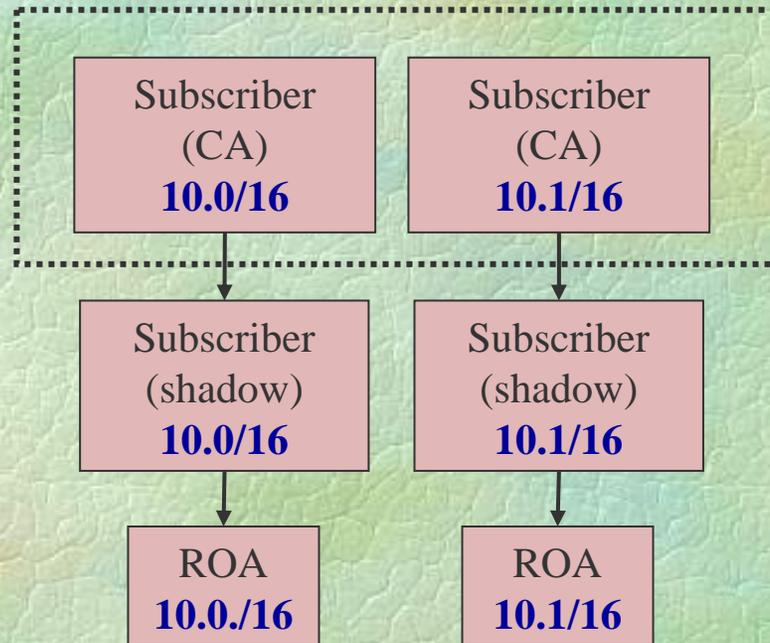
ROA Format Draft: Open Issue

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ROA Format Draft: Open Issue



- ❑ An ISP with two CA certificates one for 10.0/16 and 10.1/16 cannot authorize the advertisement of 10.0/15

ROA Format Draft: Open Issue

□ Possible Resolutions

- This isn't a problem we need to address
If the ISP wants to aggregate they must have an aggregate CA certificate
- Allow multiple signatures on a ROA
- Change the algorithm for matching ROAs to route advertisements to allow matching a less specific prefix.

Questions

