

# RPKI Publication Protocol

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# Why The Publication Protocol Is Useful

RPKI  
Publication  
Protocol

SIDR WG

Motivation

Overview

Changes

- Generating certificates/ROAs/. . . has different security constraints than running a publication service. The former requires private keys, the latter does not.
  
- Generating certificates/ROAs/. . . has different availability constraints than running a publication service. The former only needs to be reachable by its children; the latter needs to be reachable by pretty much everybody.

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- Just because you want to hold your own private keys doesn't mean you want to be responsible for running a reliable 24x7 RPKI repository server. Somebody else might even want to sell that to you as a service, and you might want to buy it.
- Reducing the total number of places that relying parties need to go to collect all the RPKI content they need is probably better for everybody.

# Publication Protocol In One Slide

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`<publish/>` Publish an object in the repository.

`<withdraw/>` Withdraw an object from the repository.

`<client/>` Configure a client of the service.

`<control/>` Maintenance (*e.g.*, update BPKI CRL).

# Recent Protocol Changes

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- Formerly one XML element type per known object type.
- Impossible (by design) to extend without revising protocol.
- On further analysis. . . that was a bad idea.
- So now we just have generic <publish/> and <withdraw/> operations.

# Other Recent Changes

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- Track changes in other documents (*e.g.*, MIME type).
- Various clarifications.
- New co-author.

# Questions?

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