



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

RPKI Repositories at the RIPE NCC

A (short) deep dive

Ties de Kock | RIPE 87 | 29-11-2023

User Experience



- We are focusing on user experience.
- Antonella has finished an initial User Experience study
- We are doing usability tests of a new design for the RPKI dashboard
- 14 usability tests this week, more participants wanted!
 - Drop by in coffee break room, or adebellis@ripe.net

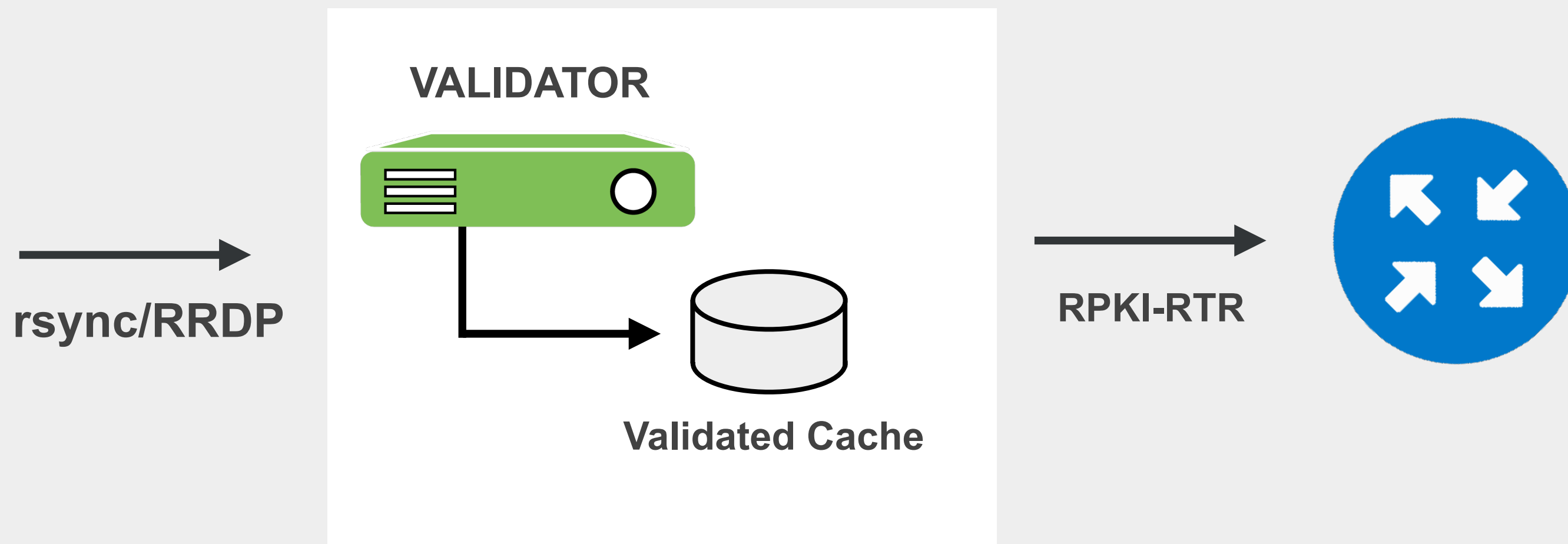
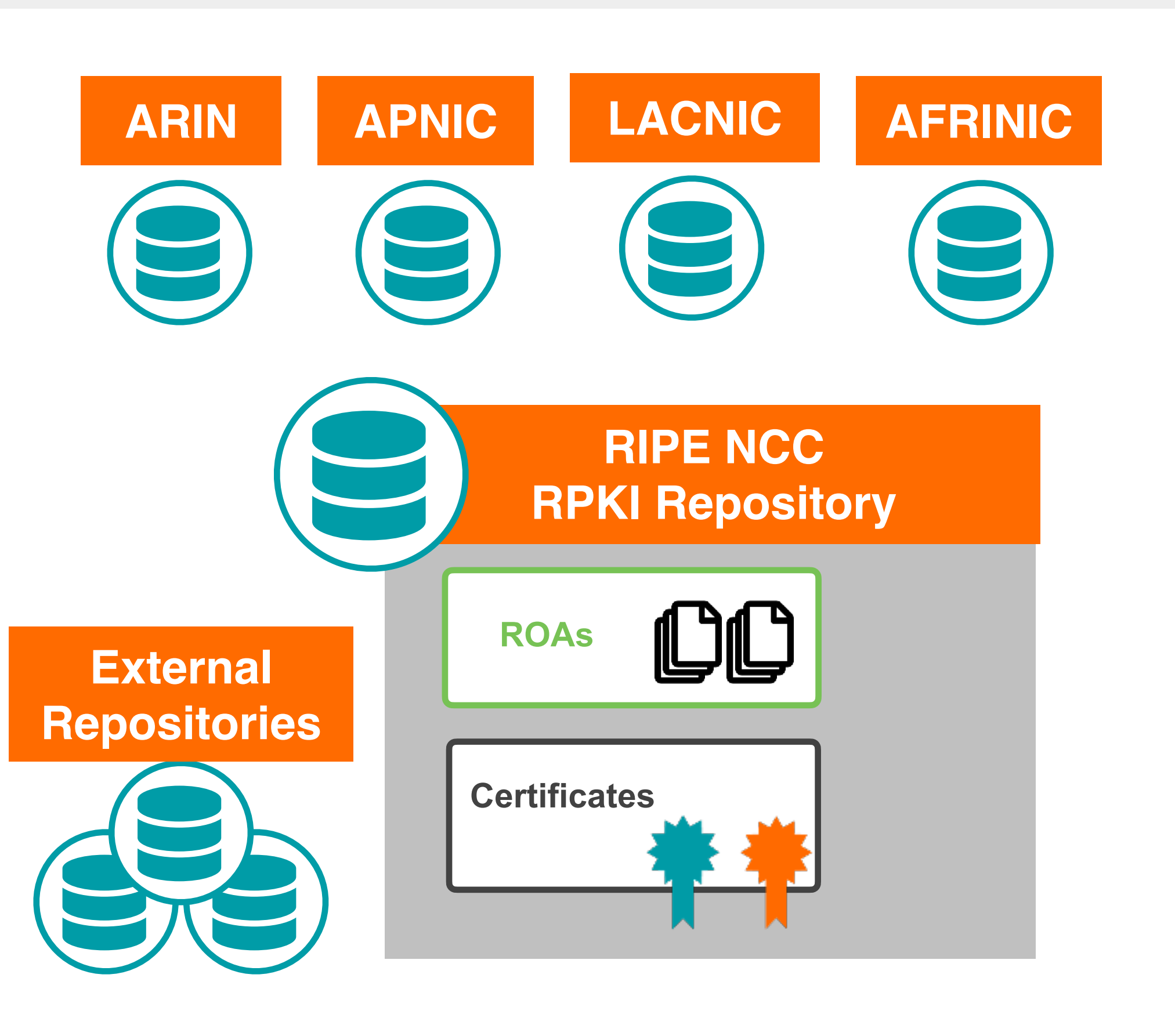
The screenshot shows the RIPE RPKI Dashboard. At the top, there's a navigation menu with a hamburger icon and the text "RIPE RPKI". Below that is a "Dashboard" section with two summary cards. The first card is for "BGP Announcement: 128" and shows "8 Invalid", "87 Unknown", and "5 Valid". The second card is for "Route Origin Authorisations ROAs: 4" and shows "2 Causing problems" and "5 Ok".

Below the summary cards is a table with three tabs: "BGP announcements", "ROAs", and "Pending changes". The "BGP announcements" tab is active. The table has columns for "Origin AS", "Prefix", "Status", and "Actions". There are 14 rows of data, each with a checkbox, an "Origin AS", a "Prefix", a "Status" (Unknown, Valid, or Invalid ASN), and a "CREATE ROA" button.

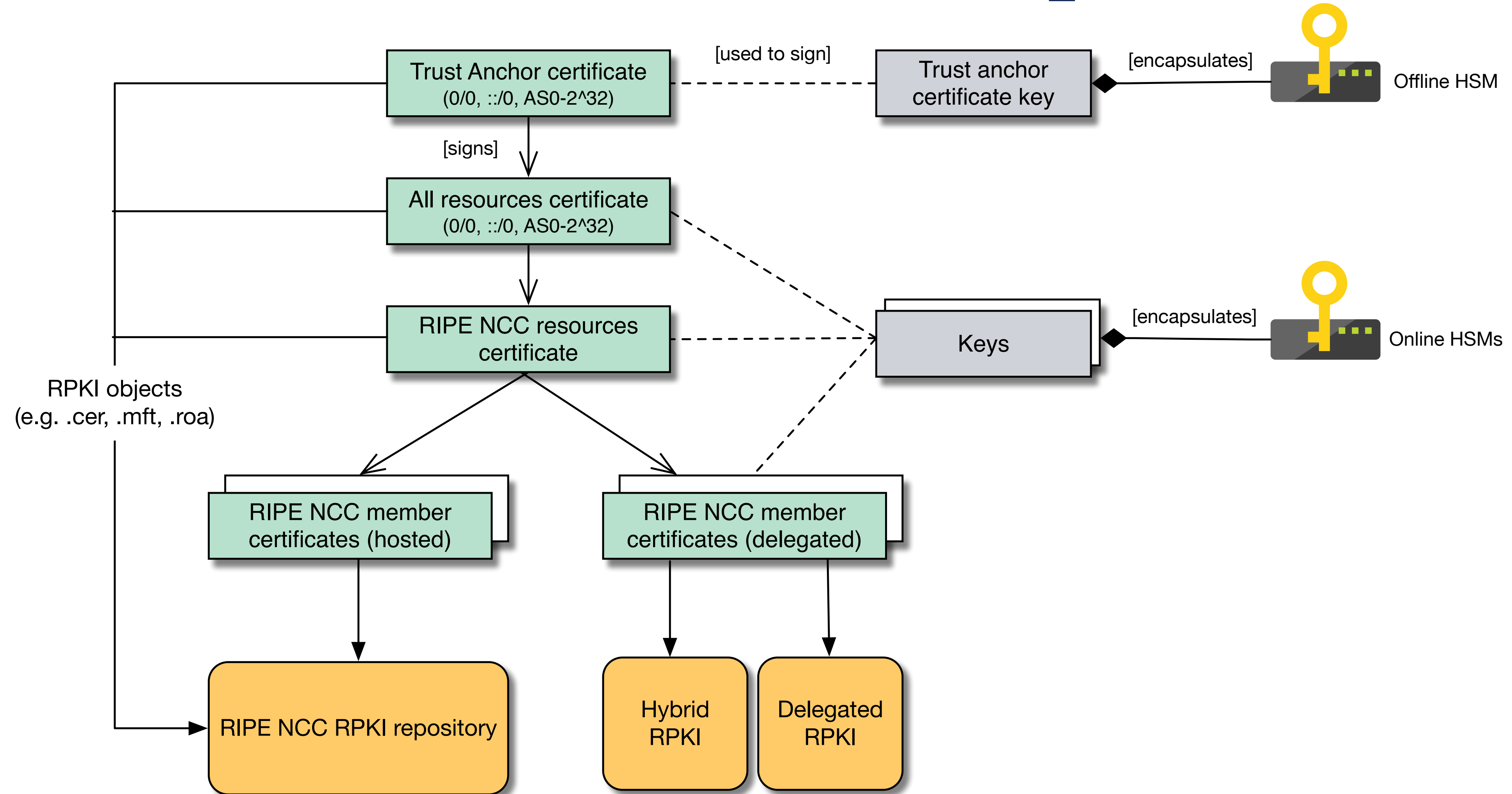
<input type="checkbox"/>	Origin AS	Prefix	Status	Actions
<input type="checkbox"/>	AS12654	2001:7fb:fe15::/48	Unknown	CREATE ROA
<input type="checkbox"/>	AS12654	2001:7fb:fe15::/48	Unknown	CREATE ROA
<input type="checkbox"/>	AS12654	84.205.72.0/24	Unknown	CREATE ROA
<input type="checkbox"/>	AS12654	2001:7fb:ff06::/48	Valid	CREATE ROA
<input type="checkbox"/>	AS25154	2001:7fb:fe0c::/48	Valid	CREATE ROA
<input type="checkbox"/>	AS12654	2001:7fb:fe06::/48	Valid	CREATE ROA
<input type="checkbox"/>	AS12654	84.205.70.0/24	Unknown	CREATE ROA
<input type="checkbox"/>	AS33333	193.0.10.0/23	Invalid ASN	CREATE ROA
<input type="checkbox"/>	AS12654	84.205.87.0/24	Unknown	CREATE ROA
<input type="checkbox"/>	AS12654	84.205.88.0/24	Unknown	CREATE ROA
<input type="checkbox"/>	AS33333	193.0.12.0/23	Invalid ASN	CREATE ROA
<input type="checkbox"/>	AS25152	193.0.14.0/24	Invalid ASN	CREATE ROA
<input type="checkbox"/>	AS25152	193.0.14.0/24	Invalid ASN	CREATE ROA

VALIDATION

Verify information provided by others



RPKI Certificate Hierarchy



RIPE NCC RPKI Repository Content



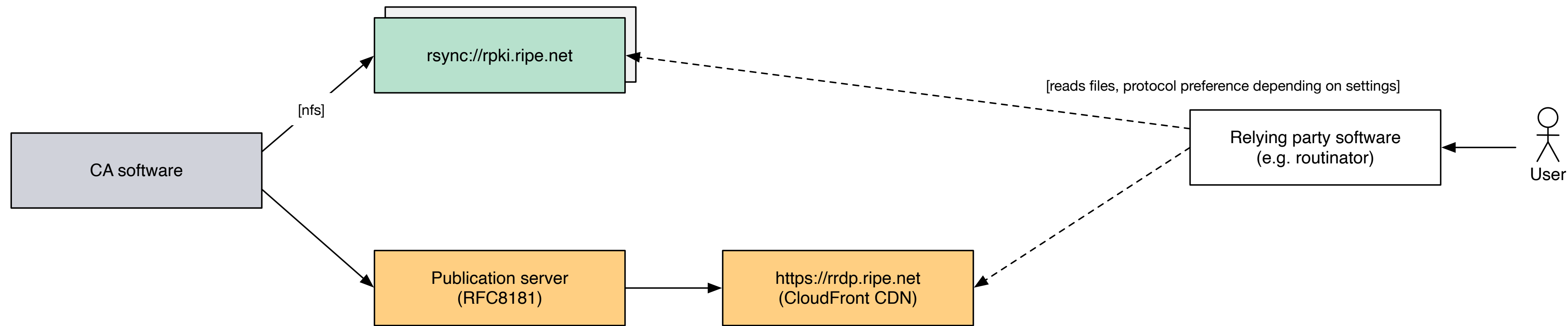
- `rsync` (<rsync://rpki.ripe.net>)

- `find repository -type f | wc -l:` 94239
- `find repository -type d | wc -l:` 39199
- `rsync --info=progress2 -a [repo]:` 148M

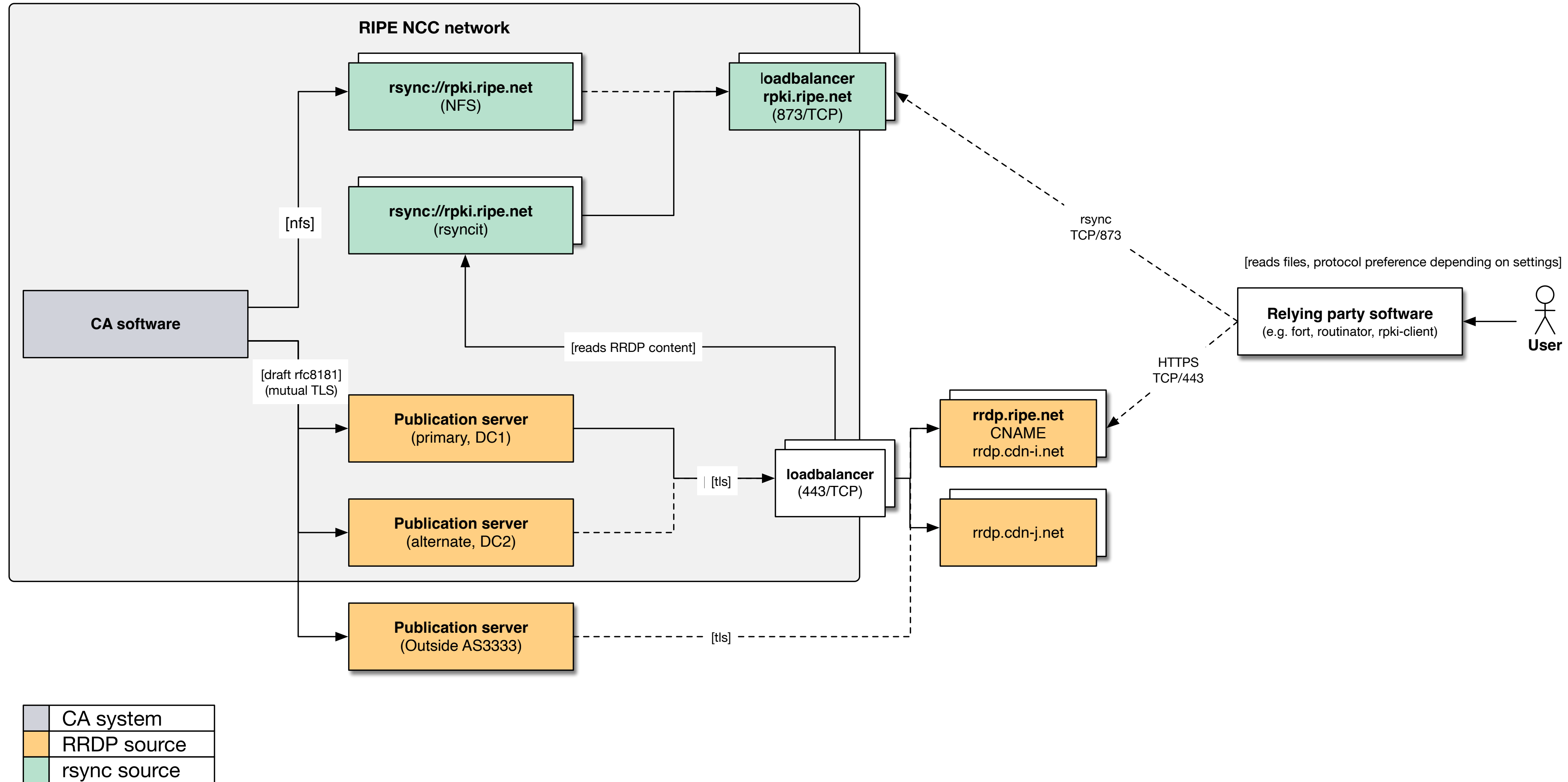
- `RRDP` (<https://rrdp.ripe.net>)

- ~2229 delta files in a month, ~2.6G
- `du -h -s snapshot.xml:` 201M `snapshot.xml`
- `du -h -s snapshot.xml.gz:` 97M `snapshot.xml.gz`

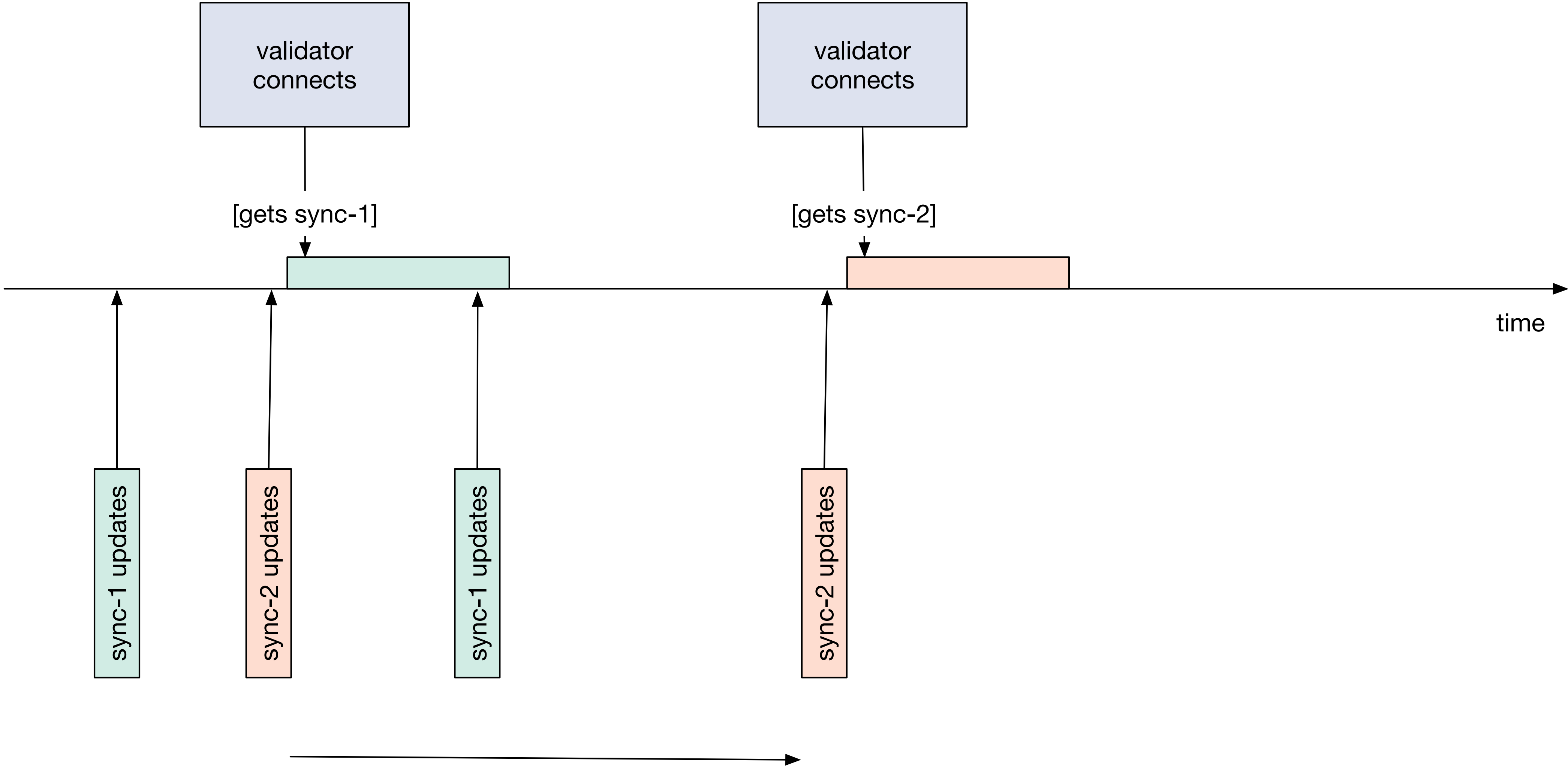
RPKI Repositories, 2020



RPKI Repositories, 2023



rsync to Multiple Backends





Questions



tdekock@ripe.net