



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Signed TAL

Problem Statement



- TALs distributed / configured with deployed RPs

```
rsync://rpki.example.org/rpki/hedgehog/root.cer  
rsync://rpki.example.org/rpki/warthog/root.cer
```

```
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAovWQL2lh6knDx  
GUG5hbtCXvvh4AOzjhDkSHlj22gn/1oiM9IeDATIwP44vhQ6L/xvuk7W6  
Kfa5ygmqQ+xOZOwTWPcrUbqaQyPNxokuivzyvqVZVDecOEqS78q58mSp9  
nbtxmLRW7B67SJCBSzfa5XpVyXYEgYAjkk3fpmeFU+AcxtxvvHB5OVPIa  
BfPcs80ICMgHQX+fphvute9XLxjfJKJWkhZqZ0v7pZm2uhkcPx1PMGcrG  
ee0WSDC3fr3erLueagpiLsFjwwpX6F+Ms8vqz45H+DKmYKvPSstZjCCq9  
aJ0qANT90tnfSDOS+aLRPjZryCNyvvBHxZXqj5YCGKtwIDAQAB
```

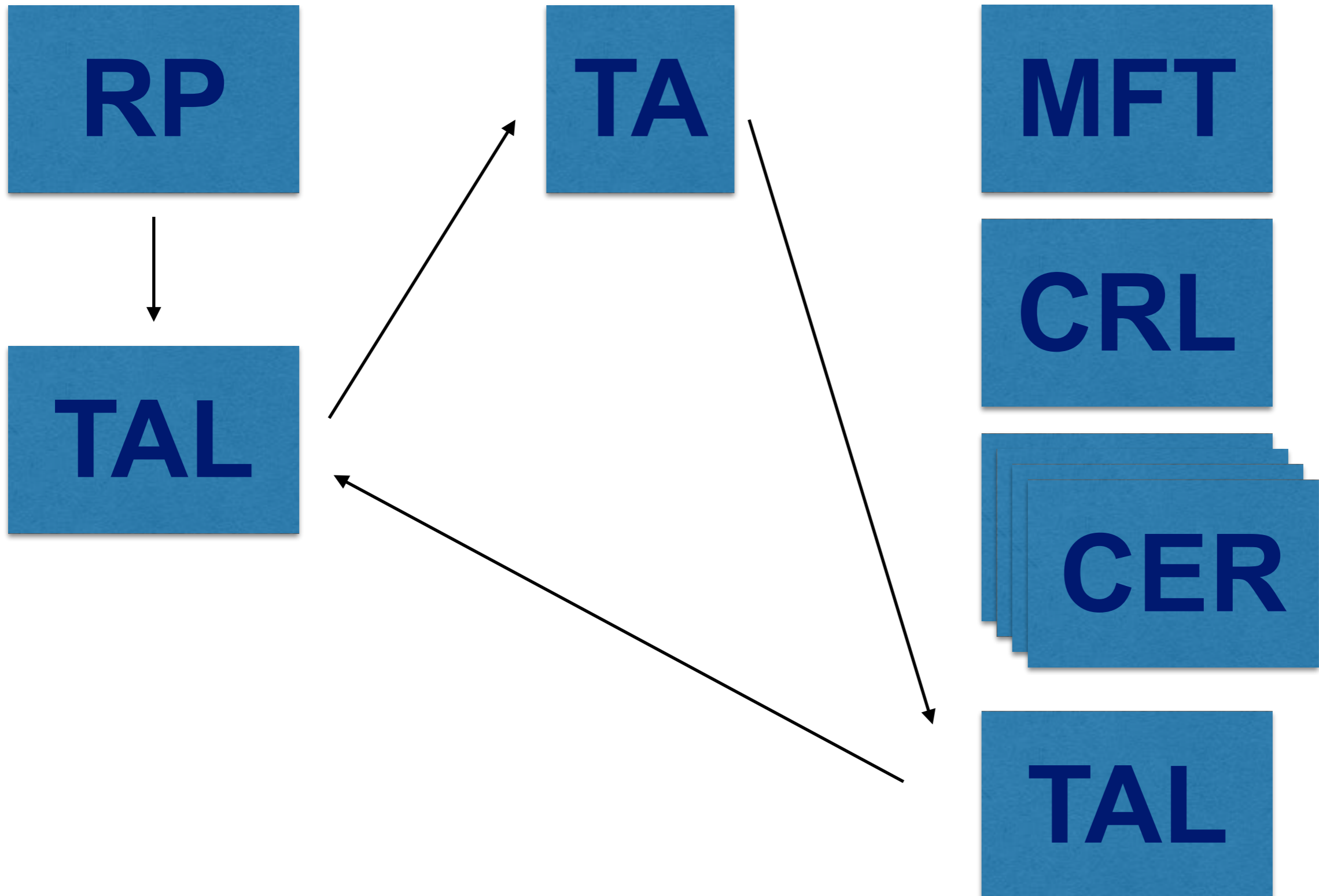
- What if I want to use https? Or additional URIs?
- What if I want to do a planned roll of the key?
(HSM vendor lock-in)

Going Forward - disclaimer



- Made draft to have a structured discussion about one possible way forward - not married to it, no pregnancies
- Not against solutions that included unplanned key rolls, but..
 - It's a problem I fortunately do not have today
 - I don't have a great idea about how to solve it
 - I believe a solution to this should not delay a solution to the practical use cases of changing URIs and a planned key roll

Signed TAL



Key Roll



- Prepare new
 - Publish ALL object of old under new (except TAL)
 - Publish TA certificate
 - Publish TAL under old TA
- Staging (24 hours?): publish old AND new
- Keep old?
 - Just a long-lived CRL, MFT and TAL pointing at new, so that RPs can find new
 - Destroy old key

New URIs



- Add URI
 - MUST publish certificate before publishing TAL
- Remove URI
 - SHOULD still publish certificate for 24 hours (?)
- Withdraw TAL
 - SHOULD withdraw TAL after 24 hours (?)

Summary and going forward



- Adopt as WG item and discuss further?
- Again, not married to the proposal - it's intended as a start of conversation, but our use case is real



Questions

