Validation of RPKI objects using a local cache

Problems with current

- Very tight coupling to rsync
  - Need to process objects not on manifest
  - Vulnerable to updates happening during fetch

- Prefix validate wants to know *all ROAs*

- Implementations use URI as identifiers for objects
  - Multiple publication points complicated
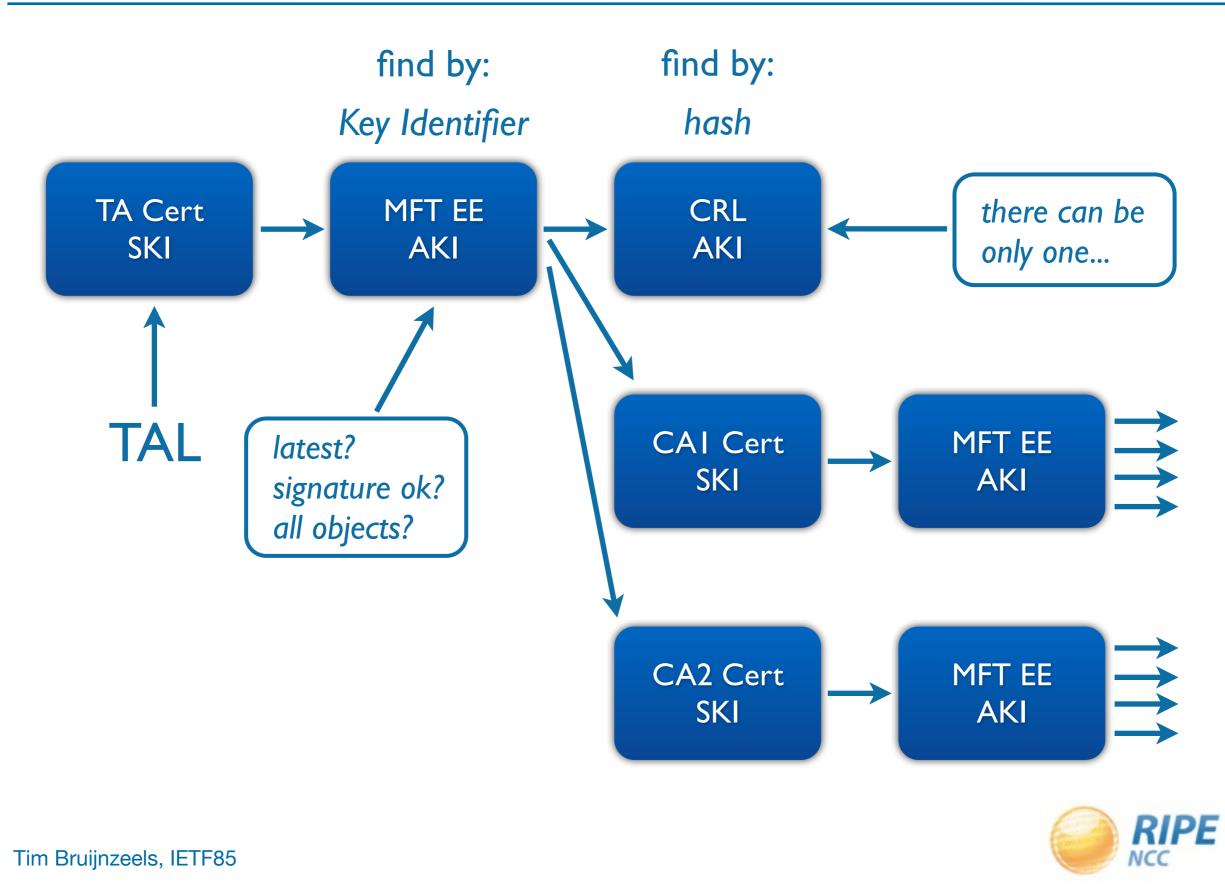 - Same for alternative fetch mechanisms

Decoupling object retrieval

- Use SIA, AIA and CRLDP only for object *discovery*

- Allows for other retrieval mechanisms
  - rsync
  - bittorrent
  - http with / without deltas
  - multiple publication points
  - other..

Validation using 'just objects'

Differences from current RFCs

- Strict interpretation of current repository standards

  - Some clarification for CAs might be useful:

    MUST 1 mft, 1 crl, <u>all</u> objects that need to be known

- Manifests authoritative source for walking the tree

  - Ignores objects that the CA does not put on mft

  - May be strict if objects are missing, e.g. go with last known good state if available

- SIA, AIA and CRLDP only for *discovery*