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Where were we?

- Back at IETF66... -00.txt
 - Highly structured repository architecture
 - Proscriptive naming
 - Nested inheritance of name strictly enforced
 - Followed g(ski) name model
 - Nobody liked it
 - g(ski) names too much like stuff PKIX rejected
 - Didn't cope with key rollover well
 - Think I'll go and eat worms...

Where are we?

- No proscriptive language about terminal object names
- Talks about system behaviours
- Persistent URLs (rsync/http...)
 - Service Some language about nesting
- eccessors Example validation algorithm
 - Clearer differentiation of entities in repository
 - EE vs CA vs signed-objects vs CRLs

Repository Structure

- **Distributed Repository Framework**
- CA publishes Certificates, CRL and Manifest
 - Name scheme used may allow the most recent published object to overwrite the older versions of the same logical object in the publication repository
- EE publishes objects signed by the EE's key pair
 - All subordinate EE certificates from a single CA may share a common repository publication point

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Relying Parties

Relying Parties may elect to aggregate the repository collection through the maintenance of a local RPKI repository cache

Draft suggests a regular "top-down" walk across the distributed repository set as a possible approach to maintenance of a local cache of all valid objects that have been published within the RPKI framework

Where are we going ?

- Talks about validation
 - Worst-case algorithm to fetch/validate a local repository
 - You can do *much* better than this if you are smart!
 - Index on g(ski), {issuer,subject} etc
 - Rsynic is smarter than this..
- Keep it simple
 - the naming, hierarchy will be local choice
 - Avoid cross contaminating CA/EE publication points in a consistent namespace
 - Persistence of the name across key rollover is useful
 - Can't always do this (eg EE Cert outcomes, Manifests)

Are we there yet?

- Unlikely to converge on proscriptive naming
 - Check!
- Useful to understand behaviors of the system as a whole
 - Check!
- Specify minimum requirements and move on
 - Check?