Russ White
Kotikalapudi Sriram
Terry Manderson

draft-manderson-sidr-usecases-00

IETF 75

Background

- Request at IETF74 SIDR-WG for use cases:
  - Allow discussion to be on common terms/understanding
  - A benchmark against current work
  - Clarify the question which RPKI answers
  - Aide authors in their design work
  - Help the WG to focus on the salient issues
  - Guide implementers in creating test cases
  - Allow new-comers to SIDR to quickly comprehend the problem space

Forward thanks

- For reading the 00 draft and making poignant comments
  - Curtis Villamizar
  - Danny McPherson
  - (your name could be here!)

Raison d'être

- To list all use cases
    - currently observed
    - previously seen
    - possible(*)
    - without bias

- (*) as far as we can reasonably predict

- Try not to immediately jump to the answer, but ask:
    - Has this been done operationally?
    - Will it be done?
    - Does it fall under some form of abuse/attack scenario?

Section Categories

- Four main sections
  - Origination use cases
    - Feedback requested
  - Adjacency use cases
    - Not in charter
  - Partial deployment use cases
    - Feedback requested
  - Relying party use cases
    - Work done, not yet in document

Coverage to date

- -00 version
  - Origination use cases
    - Single announcement
    - Aggregate with more specifics
    - Aggregate with more specifics from different ASN
    - Sub-allocation to multi-homed customer
    - Restriction of new allocation
    - Restriction of new ASN
    - Restriction of part of allocation
    - Restriction of sub-allocation prefix length

Coverage to date

- -00 version
  - Adjacency use cases
    - Not currently in charter, origination to be done first!

Coverage to date

- -00 version
  - Partial deployment use cases
    - Parent does NOT do RPKI
    - Only some children participate
  - Relying Party use cases
    - Validation of updates using ROAs (TBC)
    - Response to Expiry/Revocation of certificates (TBC)

Future Coverage

- For -01 version
  - Clearer wording in several cases
  - Table of mooted route announcements per case
  - Origination use cases
    - Origination of aggregate by third party
    - Hostile aggregation avoidance
  - Adjacency use cases
    - A few suggested, will be noted and added
    - (remember not in charter)

Questions? Concerns?

- Has a use case that you know of been missed?

- Does something not gel for you? unclear?

- Should this become a WG document or wait for 1 or 2 more revisions as an ID.