So you want to do DNSSEC...

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ICANN Africa Strategy
Version 2.0

DNSSEC Roadshow:

“Strengthen ccTLD Development in Africa, Build Capacity in DNS technical operations and provide assistance and support as requested

a. Promote adoption of DNSSEC
b. Strengthen ccTLDs”
ICANN Africa Strategy
DNSSEC Roadshow

AF ccTLD DNSSEC Status on 2013-04-03

- Grey: Uncertain (1)
- Orange: Experimental (2)
- Yellow: Announced (1)
- Blue: Partial (3)
- Green: DS in Root (1)
- Teal: Operational (7)
ICANN Africa Strategy
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AF ccTLD DNSSEC Status on 2016-02-15

- Experimental (1)
- Announced (4)
- Partial (2)
- DS in Root (7)
- Operational (8)
DNSSEC

Simple but not Easy

- **Bind9**
  - Simple
  - Easy
  - Does not support SoftHSM
    - at least not out of the box (Rick Lamb)
  - Cron Scripts

- **OpenDNSSEC**
  - Complicated
  - Difficult
  - Does support SoftHSM
    - requires unstable Library
  - Background Daemon(s)
**Problem**
- Involved in several crashes of ccTLDs
- Very difficult to debug

**Proposal**
- Pull out the *Active Ingredient*
  - Stand-Alone programs
    - Easier to debug
  - Cron Scripts
- **Costing?**
  - Who would/could pay for this?
2 Others (for gTLDs)

Supermarket
- Sell super-cheap or give away
- Try to win on large volumes with low margins

Technical Function
- Infrastructure
- Service levels

Small Business
- Keep costs down
- Build the business over time
- Look for a nice ongoing income in the future
Concluding Thoughts
Build It And They Will Come

- Use the best of
  - Technical Function
  - Small Business

- Hardware
  - HSMs are still VERY expensive
  - SoftHSM is still not ready for Prime Time
  - PCH is an option

- CoCCATools
  - Has complete functionality
  - Is easy to use
    - upload of DS Keys (GUI and EPP)