

# OARC TAR Panel



**SECURE 64**

SOFTWARE CORPORATION

# La Brea Tar Pit



- What was originally intended to expedite the roll-out of DNSSEC seems to be bogging it down instead
- People who read press articles or attend conferences where they get the impression that “DNSSEC won’t “really be ready for N years” (e.g. RSA conference in San Francisco) or “TARs don’t work” will naturally delay action on their own part to deploy DNSSEC, sign zones or enable validation.

# Can we Simplify the Task for Administrators?



**COMPLEXITY**

Sorry. I Can't Make It Easier, Because Then, It Would Be Something Else.

Yes, I manage trust anchors



**Simplify**

# Tar Paper

- If we roll this out a bit at a time, people will start to use it
- Constructive “baby steps”



# Pragmatic First Steps

- ITAR for TLD's solves first level of problem.
- But it would be helpful to automate the work for the administrator (who may have DNSSEC expertise from “none” to “some” to “expert”)
  - Minimum: publish a cookbook to explain how to set up validation
  - Or -- TAR “fetcher” program, coupled with TAR “updater” program
    - Distribute TAR list with system/products
    - 3-file approach
      - Distribution defaults
      - Local over-rides to defaults (delete, modify)
      - Local trust anchors
    - Auto-trust and/or TrustMan to automate RFC 5011 changes to keys
    - Set and forget

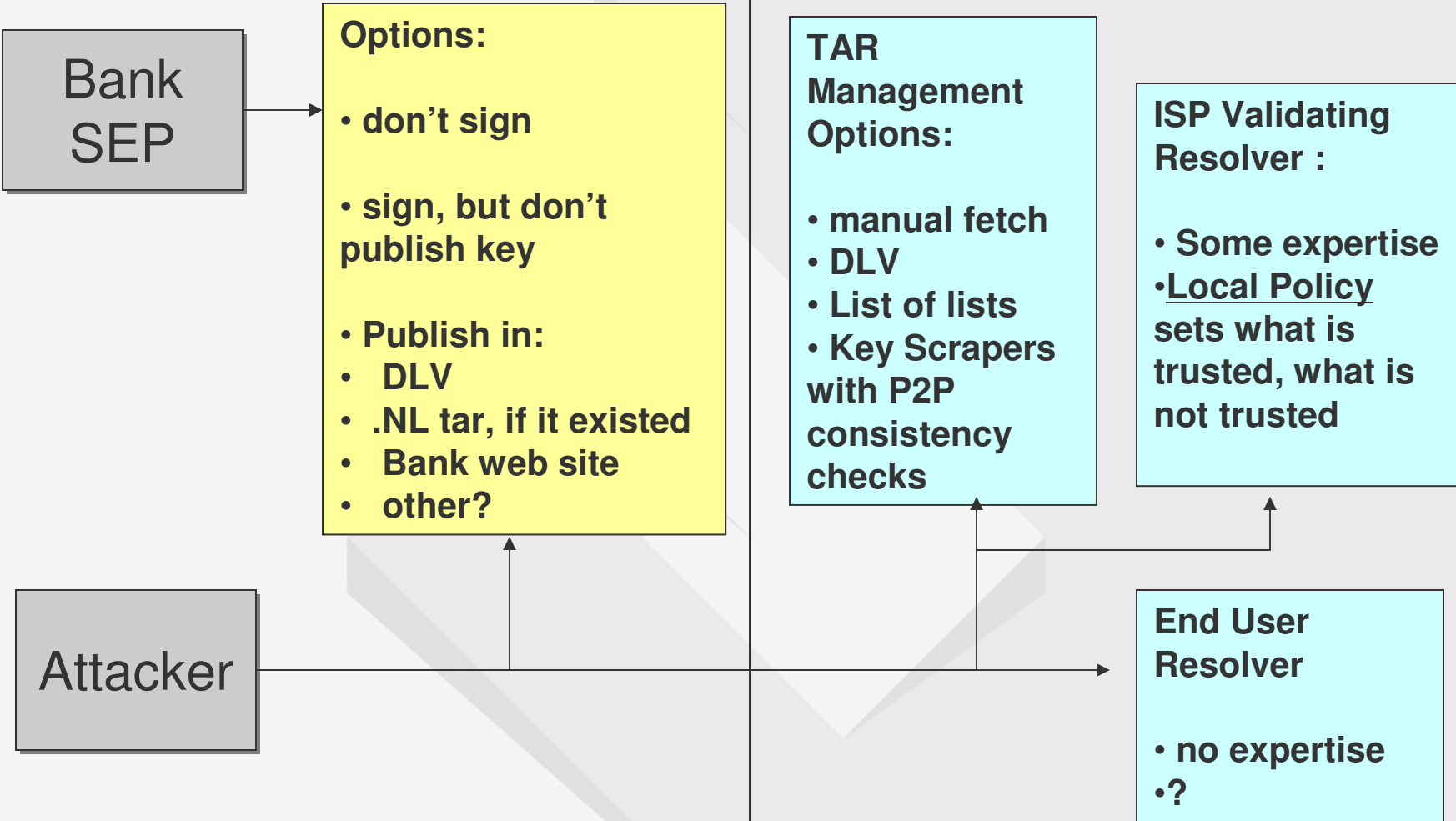
# Next Level Down

- Example:
  - MyBank.NL wants to sign with DNSSEC after hearing about Brazil's Banco Bradesco cache-poisoning attack
  - But .NL is not signed, so:
    - Do nothing
    - There are benefits to signing, but what do I do with my SEP Key?

# model

Producer

Consumer

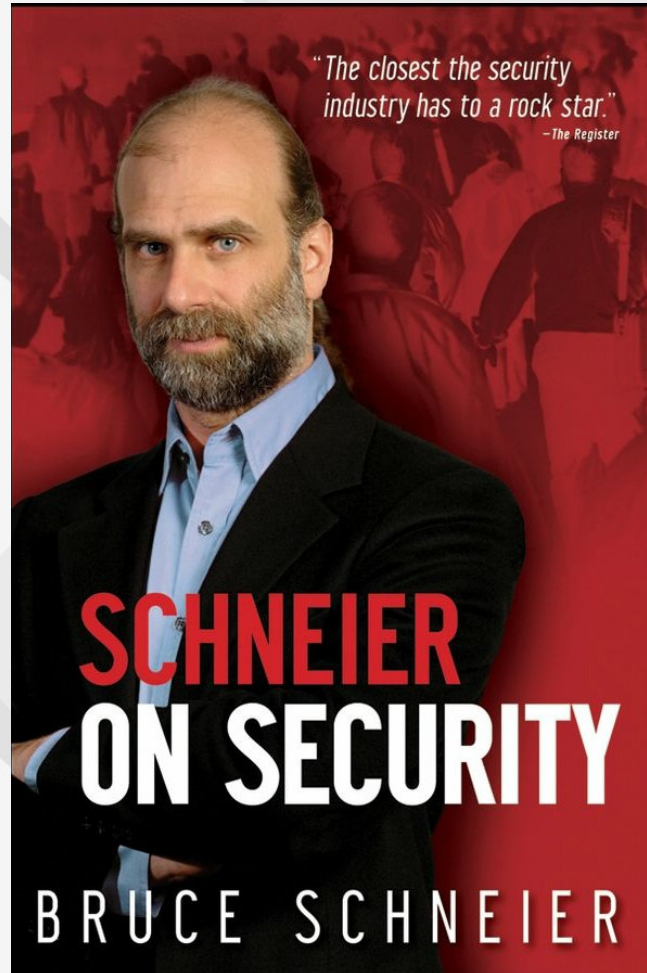




# Local Policy Example: The X-(Tar) Files



## Local Policy 2: Security is a Trade-Off “Trust, but Verify”



# Peer 2 Peer



- Local Policy can turn on/off or set how many friends must agree from how many places before trust begins to grow
  - Policy could be set to
    - None
    - Check, but don't set AD
    - Set AD if everybody agrees
      - Would anyone do this?
- More interestingly, “negative trust” can be inferred if a zone shows up with no key when a key is expected, or a different key than friends found earlier (but that doublecheck because a rollover may be happening)

# Summary

- Don't Shoot Ourselves in the foot; if you have something to say to the outside world, do it constructively
- Baby Steps
- Simplify & Automate
- Local Policy