DNSSEC & FISMA Update and Future

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DNSSEC and FISMA Now

- 3 Relevant FISMA controls:
  - SC-8 addresses zone transfers
  - SC-20 addresses zone signing (for all Impact levels)
  - SC-21 addresses response validation (for HIGH Impact only).
- Note that since DNS is an application that runs on a server, other controls apply to the server, OS, etc.

FISMA Control Revision Cycle

- SP 800-53 under revision this year (to r4)
  - Expected release Dec 2011 (takes effect Dec 2012)
    - http://csrc.nist.gov/groups/SMA/fisma/documents/800-53-Rev4_announcement.pdf
  - Expected changes to DNSSEC related controls
    - SC-20 remains untouched
    - SC-21 pushed down (to Moderate or even Low)

What Would be Needed to Meet SC-21?

- Validating resolvers within the agency at some level
  - trusted link to stub clients also needed
  - VPN tunnel for mobile clients
- Trust Anchors
  - Root zone is signed (July 15th, 2010)
  - Key available at http://www.iana.org/dnssec
- Guidance update
  - NIST SP 800-81r2 hoped to be released in unison
    - Will have section on validation recommendations