

Improving Authentication

Ginny Listman
ARIN

Applying Better Authentication

Identify use cases for authentication mechanisms: What processes benefit from stronger authentication?

- ▶ Inbound templates and requests
- ▶ Outbound mail
- ▶ Outbound files
- ▶ Web publishing
- ▶ Web transactions

Approach

- ✱ Community has asked for spectrum of authentication choices
 - ▶ Password (md5-pw, des, etc.)
 - ▶ PGP
 - ▶ X.509
- ✱ Implement one at a time, evaluate, and repeat
- ✱ Consider mail-from deprecation after evaluating adoption progress

Choosing the First Authentication Method

* Community input – public policy mtgs.

- ▶ Certificates “good”
- ▶ When implementing PGP don't use public key servers

* Engineering evaluation

- ▶ Applicability to processes
- ▶ Strength of security
- ▶ Coordination with other ongoing eng efforts
- ▶ Other RIR implementations

The choice: X.509 First

* Permits application of secure authentication to widest array of processes:

- ▶ Can protect (authenticate and encrypt) email templates
- ▶ Can authenticate web transactions
- ▶ Can authenticate data produced by ARIN

* Provides best combination of:

- ▶ Control
- ▶ Security
- ▶ Utility

Where we are

- * Established beta test team
- * Integration into current process
- * Develop Certificate Practice Statement
- * Provide training at ARIN XII and other forums

Thank You!