

• Criteria

- **Scott**

- **What does Security and Stability mean?**

- **Availability of data/system**
 - **Correctness/accuracy**
 - **Timely response**
 - **Data consistency**
 - **Attribution/zone data?**
 - **WHOIS problem?**

- **Threats and defenses**

- **Operational criteria**
 - **Roles and responsibilities**
 - **Physical/procedural/process**
 - **3rd party suppliers of services/SLA's**

- Institutional confidence
- Accountability and transparency
- Edmon
 - Criteria
 - Availability
 - Capacity
 - Accuracy (e.g. errors/typos in names/IPs/etc.)
 - Security
 - Metrics
 - Uptime
 - Reachability
 - At multiple ports
 - Unintended
 - Officially intentional
 - Malicious
 - Note -- WW CGI.hR, SIMET
 - Infrastructure (Mikey's suggestion for topic-header)
 - Hardware
 - Software
 - Connection
 - Bandwidth
 - Connectivity
 - Latency

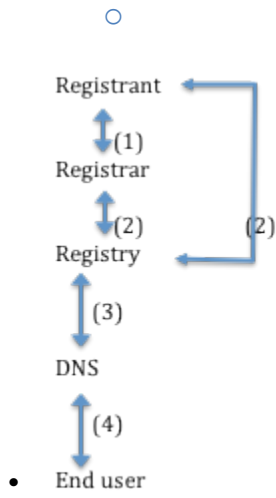
- Content (Mikey's suggestion for topic-header)
 - Configuration
 - Data integrity
 - Transit
 - Submission/registration
- Physical Security
- ???
 - From whose perspective???
 - Enablers
 - Diversity
 - Operator (people, location, funds, experience)
 - Infrastructure (brand, spec, location)
 - Skill
 - Design
 - Operation
 - Expertise
 - DNS
 - Security
 - Networking
 - Technology
 - DNSSEC

DSSA -- Criteria

- Procedures
- **Criteria**
 - **Secure**
 - Integrity of data
 - Authenticity
 - Trustworthy
 - Confidence
 - Resistant to attack
 - Manage threats effectively
 - **Stable**
 - Works and continues to work in a highly predictable way
 - Changes can be implemented with a predictable impact on services
 - Consistency
 - Acceptable performance for all actors

- DNS ≡ End-to-End

- Katrina



- **Availability of DNS as a service**
 - Secondary servers
- **Data consistency**
- **(1) Availability - n/a**
 - DNS data accuracy -- 100%
 - Data integrity
 - Process integrity
 - System integrity
- **(2) Availability - 90%**
 - DNS data accuracy -- 100%
 - Data integrity
 - Process integrity
 - System integrity
- **(3) Availability --**
 - DNS data accuracy -- 100%
 - Data integrity
 - Process integrity
 - System integrity
- **(4) Availability -- 100%**
 - DNS data accuracy -- 100%
 - Data integrity
 - Process integrity
 - System integrity

- **Mark**

- **How can you tell the DNS stable?**

- IANA functions

- **Operability of DNS L and coordination of root servers**

- **DNSSEC**

- Recursive resolver
- DNSSEC taxonomy
- Hard to determine health of DNS based on unknown but exploited holes in DNS
- Healthy DNS needs good incident management and good network operations
- Threat warning and recommendations of mitigation based on the warning
- Need of service level of DNS (dashboard)