Security Advisory Committee

ICANN Meetings
Bucharest
June 27, 2002
Topics

• Formation
• Committee
• Charter
• Audience

• Approach
• Long-term schedule
• Near term Schedule
• Other Groups
Formation

• 9/11 => November Marina del Rey meeting
  – Excellent participation
  – Appropriate forum for Internet-wide coordination
• Board directed creation of a…
  “… committee on the security and stability of the Internet's naming and address allocation systems.”
  – Started as a President’s committee
  – Converted to a standing board committee
Committee

- Steve Crocker, Chair
- Alain Aina
- Jaap Akkerhuis
- Doug Barton
- Steven M. Bellovin
- Rob Blokzijl
- David R. Conrad
- Daniel Karrenberg
- Mark Kosters
- Allison Mankin
- Ram Mohan
- Russ Mundy
- Jun Murai
- Frederico A.C. Neves
- Ray Plzak
- Doron Shinkomi
- Ken Silva
- Bruce Tonkin
- Paul Vixie
- Rick Wesson

Plus: Stuart Lynn, Andrew McLaughlin, Jim Galvin
Committee Strengths

• Root Server Operators
• gTLD Operators
• ccTLD Operators
• Name Space Registries
• Registrars
• Internet Security

*No policy or political members(!)*
Charter

• “Develop a framework for DNS and address allocation security…”
• “Develop requirements for new or revised DNS standards and protocols…”
• “Engage in ongoing risk analysis…”
• Track progress and synchronize with existing standardization, deployment, operational, and coordination activities.
Audience

• ICANN Board (of course)
• IETF and Security Community
• Operators
  – Servers – Root, gTLD, ccTLD, Address
  – Registrars
  – ISPs
• Governments
• Public
Approach

- Strength
- Measurement
- Communication
Strength

- **Protocols:** The protocols are well defined and well designed
- **System Design:** The system of servers and communication paths is strong and robust against both qualitative attacks, e.g. source address spoofing, and quantitative attacks, e.g. DDOS.
- **Registration:** The registration procedures are strong and reasonably uniform
- **Threats:** The threats are identified and countered
Measurement

• Metrics and Milestones
  – What constitutes “good?”
  – Partly quantitative and partly qualitative

• Measurements
  – Where are we?
  – How quickly are we improving?

Make sure we’re all talking about the same things – avoid vague hyperbole
Long term schedule

• Plot course toward acceptable state
  – Probably a couple of years
• Shift into maintenance mode
  – Re-evaluate charter, organization, operation
Near term schedule

• By Shanghai…
  – Description
  – Vulnerabilities
  – Security Architecture
  – Measurement framework
Other Groups

• Cyber Security Working Group
  – Intel, HP, Oracle, Cisco, Worldcom, Microsoft

• Securing the Future of Internetworking
  – Sept workshop and follow on work

• Measurement groups
  – Men and Mice, Registro.br, et al.