Name Collisions Research Workshop and Prize

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Name Collision Problem for DNS Queries

See Verisign Labs’ technical reports *New gTLD Security and Stability Considerations* and *New gTLD Security, Stability, Resiliency Update: Exploratory Consumer Impact Analysis* for further information.
Name Collision Problem for DNS Queries

- Installed System
- Internally Generated Query
- Resource record received (if SLD delegated)
- Externally Assigned Name

Potential Risks
- Installed System Breaks
- Internal Information Leaks (beyond root)
- Cyberattacks Exploit Collision
Mitigating Name Collisions: General Approaches

(1) Remediate Installed System

(2) Constrain Global DNS

(3) Hybrid of Both

Resource record received
(if SLD delegated)

… .SLD .TLD

Global DNS with TLD

Externally Assigned Name

Internally Generated Query

← collides with →

Potential Risks

• Installed System Breaks
• Internal Information Leaks (beyond root)
• Cyberattacks Exploit Collision
Research Workshop and Prize Competition

Workshop and Prize on Root Causes and Mitigation of Name Collisions (WPNC)

- Preliminary workshop announcement is available at http://namecollisions.net
- Extended abstracts of high-impact research due in February
- Workshop to be held in early March
- Co-sponsors would be welcome
- Please see the announcement for more detail and please contact us with questions and suggestions

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Thank You