Developing Nominet’s registry security roadmap
Increased desire for higher security → direct.uk → Innovation → Existing initiatives → Security roadmap
Audience

- Staff
- Registrars
- Registrants
- Wider stakeholders
- Consumers and other internet users

Security roadmap
Security roadmap

• Bring together existing work
• Share data across other initiatives
• Extension of existing products and services
• Focus on innovation through our Research and Development team
• Delivery of new products and services:
  - enhance our existing registry service
  - deliver diversified revenue opportunities
Key themes

- Security
- Trust
- Detection
- Resilience
- Education
- Assistance
Register data

Data Quality program
• Ensuring registry data is as accurate as possible – finding and fixing problems

Validation / verification of registrant
• New registrations: more stringent demands

Extended WHOIS and Register Search Service
• Creating greater visibility
Register / registry security

Domain Lock
- Allowing high-value domains to be locked to prevent hacking

Staff education
- Preventing against social-engineering and hacking attempts

Enhanced Registrar Security
- Two factor authentication to protect account from hacking
DNS security

DNSSEC
• Preventing man-in-the-middle and domain spoofing

Advanced DNS Analytics
• Understanding DNS traffic in detail to help prevent exploits such as spam, botnets etc
Cyber Assist

• Service aimed at small to medium sized business: helping with cyber threats and providing assistance and education

Know the Net

• Educational website – blog posts, articles, how-to’s
Advanced DNS Analytics
• Provides a source for developing new solutions to DNS problems

Domain Reputation Scoring
• Evaluating and ‘scoring’ domains based on a wide range of indicators
Observations and lessons

Registries must innovate and stay current to deal with changing cyber threats

Can be an opportunity:

• to publicise existing good work
• to provide new products and services
• to build wider relationships with other stakeholders

However:

• not everyone will welcome higher security
• some will see higher security as a threat
• creating new services can be controversial
Thank you!

Any questions?