

.uk Registrar Conference 2009

nominet®

Simon McCalla, Director of IT

A decorative graphic consisting of numerous thin, white, wavy lines that flow from the bottom left towards the top right, creating a sense of motion and depth against the solid red background.

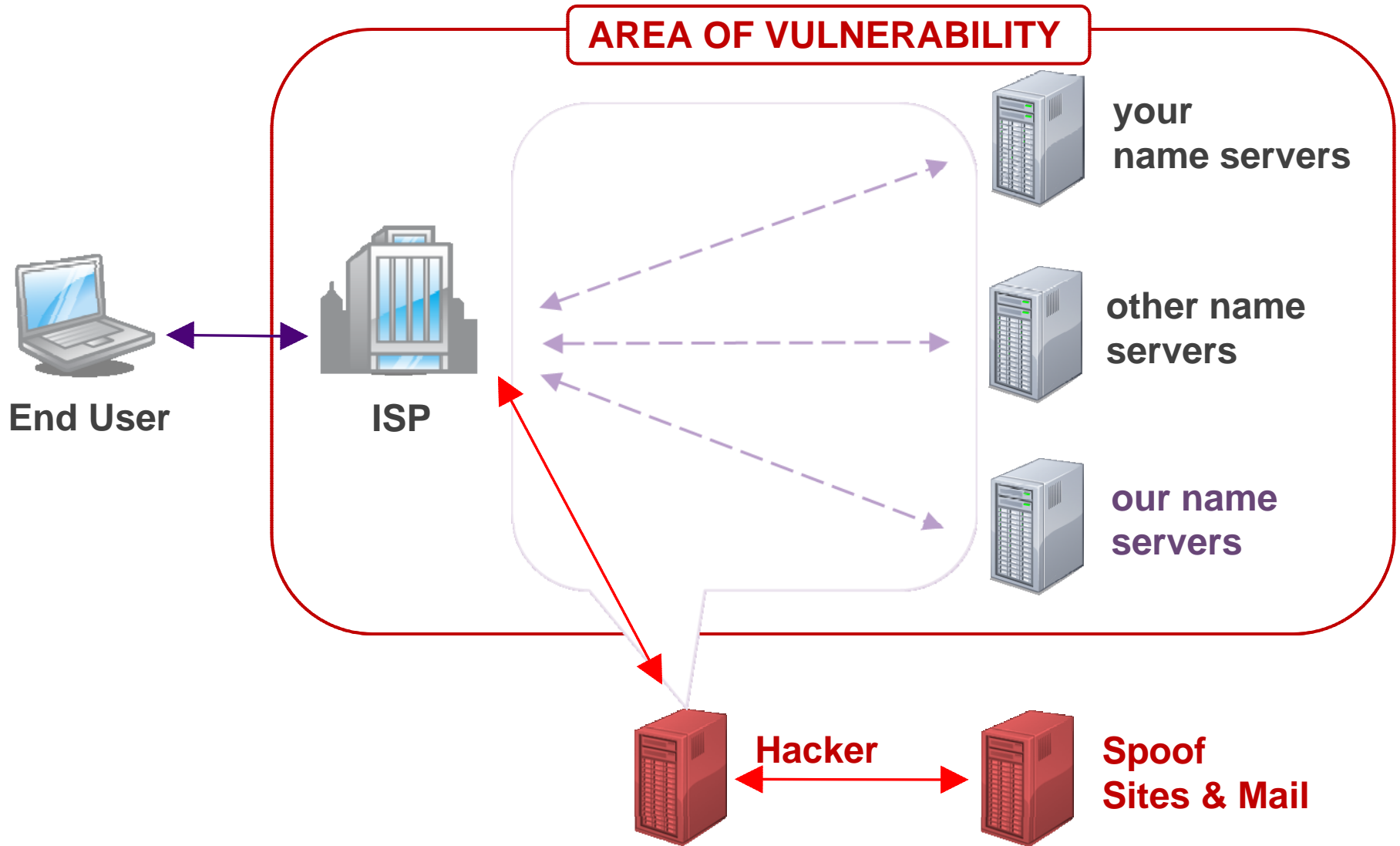
Introduction

- Simon McCalla – Director of Information Technology at Nominet
- My background
- DNS Security – the vulnerabilities, challenges and solution

DNS Security

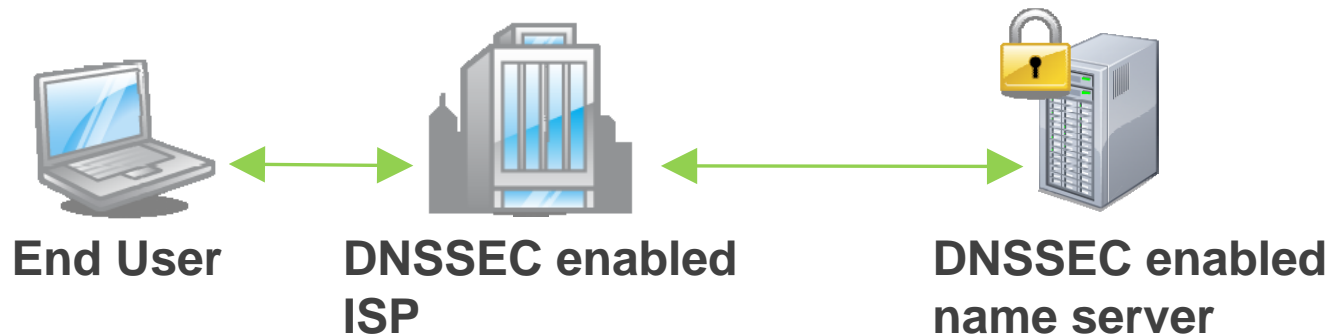
- Domain Name System has served us well for over 20 years
- Was designed for a 'trusted' internet space
- DNS communications are not inherently secure
- We are likely to see an increase in attacks against the Domain Name System
- We are likely to see this as an increase in:
 - Spoof/Phishing sites
 - Redirected mail

DNS Vulnerabilities



Fixing The Problem

- DNS Security Extensions (DNSSEC) address this problem by cryptographically 'signing' DNS data
- DNSSEC ensures validity of DNS data at the point of lookup



- Any attempt at spoofing the DNS data is detected and can be dealt with.

Fixing The Problem

- **The good news:**
 - Most name server software already includes DNSSEC as standard
 - Enabling DNSSEC is neither difficult or time consuming
- **The challenge:**
 - Management and refreshing of the keys used to sign your zone
 - Technical skills needed to understand and manage DNSSEC
- **The opportunity:**
 - OpenDNSSEC is software that automates the whole process
 - OpenDNSSEC is free, driven and developed by Nominet, other registries and the DNS community



Next Steps and Timeline

- ICANN have announced that the Root will commence signing in December 2009
- Nominet will be signing the .uk zone by mid February 2010 using OpenDNSSEC
- We will then commence planning for signing .co.uk and other second level domains
- We currently plan to sign the second level domains in 2011 (*date TBA*)



What is the impact to you

- No impact when we sign the .uk zone
- Your existing domains will function as normal with no involvement from you/your partners
- As we plan for .co.uk (and other SLD's) you will need to start planning and deciding your approach to DNSSEC:



Do you need to implement DNSSEC?

What is the impact if you don't?

What are the benefits to your customers?

Do you have the skills/need help?

How We Can Help

- We have a dedicated team working on DNSSEC
- We will be:
 - Creating a DNS Security Information Pack
 - Providing regular communication and updates on progress
- If you would like more information:
 - Contact your account representative
 - Contact the MaRS Technical Support Team
 - Contact me directly