

Bob Downie

NISCC Telecommunications Outreach Team

NISCC's Aim

To minimise the risk to the critical national infrastructure from electronic attack.



The CNI Sectors

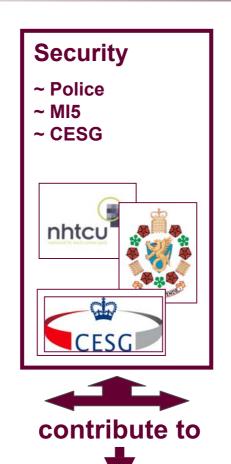
- Telecommunications
- Energy
- Finance
- Government & Public Services
- Water and Sewerage
- Health Services
- Emergency Services
- Transport
- Hazards
- Food

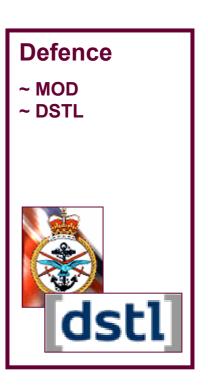




An Interdepartmental Centre









What is the Threat?

- foreign states
- terrorists
- activists
- criminals
- hackers
- insiders
- script kiddies



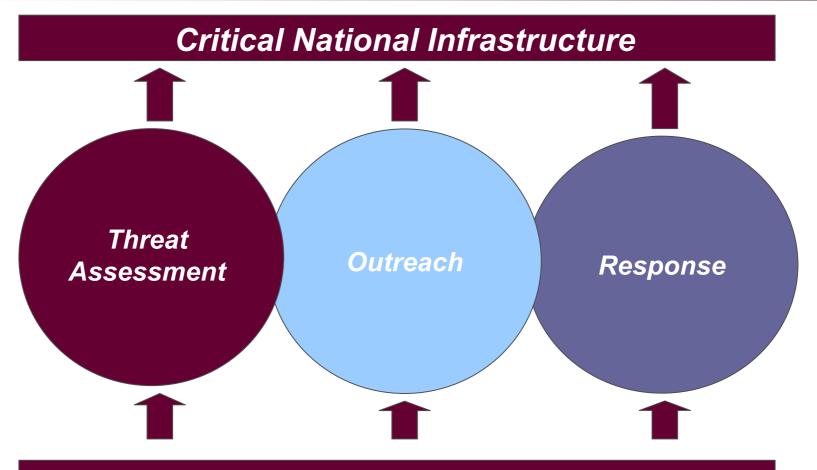
However...

- We do not have enough information
- The threat level can change dramatically
- The insider threat is always there (and getting worse)





How NISCC works



Research and Development. Policy



Investigating and Assessing the Threat

- Making best use of technical, human and open sources to investigate.
- Analysis and assessment.
- Reports and specific threat assessments.
- Disruptions.



Outreach

Promoting Protection and Assurance:

- Dialogue with all CNI sectors
- Facilitating information exchanges
- Tailored reports



Response

- Briefings and alerts via UNIRAS
- Responsible disclosure of vulnerabilities
- Assistance with recovery from direct attacks



Beyond the CNI...

- NISCC alerts and warnings already go wider than the UK CNI.
- NISCC vulnerability disclosure process now world class. Many companies ask us to handle this for them.
- Introduced the concept of WARPs (Warning Advice and Reporting Points) for suitable CNI organisations.



Vulnerability disclosure

Before.....

Period of greater exposure between disclosure of vulnerability and patches becoming available.



Vulnerability disclosure...

Now.....

NISCC told of vulnerability.

- Seeks agreements that before set date:
 - Discoverer not to publish.
 - Vendors work on fix, but don't tell customers
- On agreed date:
 - Discoverer gets credit.
 - Vendors issue patches.
- Use trusted partners to assess the impact and risk
 - This is where we can work together



TCP/IP Window hits the headlines





UK 'Self Defence' Forum

- Already existing Groups but not the right focus
- A widely recognised need for a Forum for Network Operators
- A nucleus of Operators of all shapes and sizes
- A number of issues raised, such as
 - Alerting
 - Reporting
 - Shared technical solutions



Issues to be addressed

- Infrastructure: Single points of failure and resilience in Service Providers' networks.
- International Cooperation: between ISPs, telcos, police authorities
- Political as well as Technical solutions
- The Deterrent value of publicising arrests and convictions
- A User Awareness Campaign: users spawn virus attacks
- Blacklisting
- Trace-back issues
- A duty of care by users and by providers
- Legislation and the burden of it





Can we help?

- Infrastructure: Protective advice for physical and logical defence
- Cooperation: Building links in Europe, US, Canada
- Political solutions: Access to various Government agencies
- Deterrence: Good linkages with NHTCU & other police agencies
- User Awareness: ITSafe, UNIRAS, WARPS, Publications
- Blacklisting: Keeping the dialogue going
- Trace-back issues: technical support or liaison
- A duty of care: Peer and Customer pressure?
- Legislation/Regulatory: Helping to influence policy
- A UKNOF



Thank you



For more go to...

www.niscc.gov.uk

Or e-mail me at Robertd@niscc.gov.uk

