Secure Information Exchange with Non Military Partners and Entities

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About Deep-Secure

- UK Company, with origins going back to 1982
- Deliver cyber security products that enable secure information sharing
- Products that securely connect networks of differing security levels
- Proven and trusted - protecting some of highest value networks in the world
Information Exchange Military to Non-military

- Permanent connection will be attacked by serious enemies
  - They will keep below the radar where possible
  - Lightweight defences and monitoring not enough

- Need to stop advanced attacks including the unknown (zero day) ones
  - Force the attacker to use social engineering which can expose them
Assured Information Exchange

• Import and Export patterns
  – Securely transfer data one way

• Browse Down
  – View data safely from the high side
Implementation

• Transformation
  – Extract business information
  – Leave behind hidden attack data or information leaks
  – Simplify format to be verified
    • Same internal format for any data format handled

• One Way Data Flow
  – Limit attacker paths and deny feedback

• Release Control
  – Authenticate releaser
  – Digitally signed meta-data
  – User accountability
Combined Techniques

Virtual Desktop Session

Personal File Exchange

Guard(s)

Virtual Desktop

Personal File Exchange

Personal Quarantine

Low side presence for high side user

Quarantined items

Guard(s)

Files

Information Exchange Services e.g. Web, Mail

Guard(s)
## Deep-Secure Products

### Content Inspection Guards
- **Mail Guard**  *advanced email security*
- **Web Guard**  *advanced web security*

### Content Control Guards
- **iX Guard**  *advanced verification*
- **XML Guard**  *protects web applications*
- **Chat Guard**  *manages XMPP chat sessions*
- **NetMan Guard**  *secure network management*
- **Modbus Guard**  *protects plant networks*

### Next Generation Diodes
- **iX Minerva**  *assured one way transfer*
Thank You

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Engineering security beyond where others stop