The Snowden Files: British Spies Used Sex and 'Dirty Tricks'

Slideshow No. 2

These slides, from a top-secret spy conference in 2010, were prepared by GCHQ, the British signals intelligence agency, describing cyber operations and proposals for operations. The slides focus on the efforts of a unit, the Joint Intelligence Research Group, or JTRIG, and include a proposal to use foreign journalists for intelligence operations.

The slides were leaked by former NSA contractor Edward Snowden and obtained exclusively by NBC News, which is publishing them with minimal redactions.
Full-Spectrum Cyber Effects

SIGINT Development as an enabler for GCHQ’s “Effects” mission
Effects
Destroy | Deny | Degrade | Disrupt | Deceive | Protect

Computer Network Attack (CNA)
Computer Network Information Operations (CNIO)
Disruption
Effects in GCHQ

- Definition: having an impact in the real world
- Key deliverers: JTRIG and CNE
- Now major part of business – 5% of Operations
- Across all target types
- Continuous innovation of new tools and techniques
CNIO
Computer Network Information Operations

- Propaganda
- Deception
- Mass messaging
- Pushing stories
- Alias development
- Psychology
Disruption / CNA

- Masquerades
- Spoofing
- Denial of service
  - Phones
  - Emails
  - Computers
  - Faxes

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**Information Operations**

**INFINITE CURVATURE/MOUNTAIN SLOPE**

*Sending messages across the full spectrum of communications*

<table>
<thead>
<tr>
<th>Telephony</th>
<th>SMS</th>
<th>FAX</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>SALAMANCA Data Mining</td>
<td></td>
<td>Open Source</td>
<td>RADIUS Data $\rightarrow$ TDIs</td>
</tr>
<tr>
<td>Phone Code Prefix</td>
<td></td>
<td></td>
<td>IP GEO $\rightarrow$ TDIs</td>
</tr>
</tbody>
</table>

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ROYAL CONCIERGE
A SIGINT driven hotel reservation tip-off service

From: reservations@expensivehotel.com
To: new-target@mod.gov.uk
"Thank you for reserving......"

ROYAL CONCIERGE exploits these messages and sends out daily alerts to analysts working on governmental hard targets:

What hotel are they visiting?
Is it SIGINT friendly?

An enabler for effects – can we influence the hotel choice? Can we cancel their visit?

We can use this as an enabler for HUMINT and Close Access Technical Operations.

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Mobile Information Ops

50 new mobile TDIs being Developed by end of 2010

Also - Target Geographical Identifiers (TGI)

We can shape CNIO against specific locations, users with a high degree of cognition
Human Systems Analysis

Foreign News Agencies:
- Credential Harvesting
- Employee Analysis

SIGDEV
- who?
- how?
- why?

Data in  New Data out

Data out

Social not technological solution

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Future?

Formalising Tradecraft for Analysts:

“What SIGDEV needs to be done prior to starting an Effects operation?”

Joining up with 5 EYES where possible (cyber development)

SIP and VoIP Effects – Denial of Service, Psychological Operations

Provide the defensive advice from the offensive perspective