Glenn Greenwald’s *No Place to Hide* includes the following documents from the Snowden archive. For discussion of these documents, please see the book at the page numbers indicated.

**NO PLACE TO HIDE**

Edward Snowden,
the NSA,
and the U.S.

**Surveillance State**

Glenn Greenwald

Author of *With Liberty and Justice for Some* and *How Would a Patriot Act?*

**BUY THE BOOK:**

[amazon.com](http://amazon.com)  [BARNES&NOBLE](http://BARNES&NOBLE)  [INDIEBOUND](http://INDIEBOUND)  [macmillan](http://macmillan)

**E-BOOK**

[amazon Kindle](http://amazon Kindle)  [iBooks](http://iBooks)  [kobo](http://kobo)  [nook](http://nook)

[GLENNGREENWALD.NET](http://GLENNGREENWALD.NET)
OVERVIEW

TOTAL DNI:
97,111,188,358

TOTAL DNR:
124,808,692,959

SIGADS:
504

CASE NOTATIONS:
27,798

PROCESSING SYSTEMS:
2,431

United States:
3,095,533,478
IT IS HEREBY ORDERED that, the Custodian of Records shall produce to the National Security Agency (NSA) upon service of this Order, and continue production on an ongoing daily basis thereafter for the duration of this Order, unless otherwise ordered by the Court, an electronic copy of the following tangible things: all call detail records or "telephony metadata" created by Verizon for communications (i) between the United States and abroad; or (ii) wholly within the United States, including local telephone calls.

(Continued)
Telephony metadata includes comprehensive communications routing information, including but not limited to session identifying information (e.g., originating and terminating telephone number, International Mobile Subscriber Identity (IMSI) number, International Mobile station Equipment Identity (IMEI) number, etc.), trunk identifier, telephone calling card numbers, and time and duration of call.
New Collection Posture

- Sniff it All
- Know it All
- Collect it All
- Exploit it All
- Partner it All
- Process it All

Torus increases physical access

Automated FORNSAT survey - DARKQUEST

Increase volume of signals: ASPHALT/A-PLUS

Scale XKS and use MVR techniques

Analysis of data at scale: ELEGANTCHAOS

Work with GCHQ, share with Misawa
Why TARMAC?

- MHS has a growing FORNSAT mission.
  - SHAREDVISION mission.
  - SigDev ("Difficult Signals collection").
  - ASPHALT ("Collect it All" proof-of-concept system).
**Future Plans (U)**

(TS//SI//REL) In the future, MSOC hopes to expand the number of WORDGOPHER platforms to enable demodulation of thousands of additional low-rate carriers. These targets are ideally suited for software demodulation. Additionally, MSOC has developed a capability to automatically scan and demodulate signals as they activate on the satellites. There are a multitude of possibilities, **bringing our enterprise one step closer to "collecting it all."**
Knowing what we have - Guiding Light

- GCHQ has massive access to international internet communications
- We receive upwards of 50 Billion events per day (…and growing)
(S//SI//REL TO USA, FVEY) SHELLTRUMPET Processes it’s One Trillionth Metadata Record

By NAME REDACTED on 2012-12-31 0738

(S//SI//REL TO USA, FVEY) On December 21, 2012 SHELLTRUMPET processed its One Trillionth metadata record. SHELLTRUMPET began as a near-real-time metadata analyzer on Dec 8, 2007 for a CLASSIC collection system. In its five year history, numerous other systems from across the Agency have come to use SHELLTRUMPET’s processing capabilities for performance monitoring, direct E-Mail tip alerting, TRAFFICTHIEF tipping, and Real-Time Regional Gateway (RTRG) filtering and ingest. Though it took five years to get to the one trillion mark, almost half of this volume was processed in this calendar year, and half of that volume was from SSO’s DANCINGOASIS. SHELLTRUMPET is currently processing Two Billion call events/day from select SSO (Ram-M, OAKSTAR, MYSTIC and NCSC enabled systems), MUSKETEER, and Second Party systems. We will be expanding its reach into other SSO systems over the course of 2013. The Trillion records processed have resulted in over 35 Million tips to TRAFFICTHIEF.
NSA Strategic Partnerships

Alliances with over 80 Major Global Corporations
Supporting both Missions

- Telecommunications & Network Service Providers
- Network Infrastructure
- Hardware Platforms
  - Desktops/Servers
- Operating Systems
- Applications Software
- Security Hardware & Software
- System Integrators
Special Source Operations
Corporate Partner Access
Briefed by: NAME REDACTED
Relationships & Authorities

• Leverage unique key corporate partnerships to gain access to high-capacity international fiber-optic cables, switches and/or routers throughout the world
Unique Aspects

Access to massive amounts of data

Controlled by variety of legal authorities

Most accesses are controlled by partner
(TS//SI) US-990 (PDDG-UY) – key corporate partner with access to international cables, routers, and switches.

(TS//SI) Key Targets: Global
FAIRVIEW — Corp partner since 1985 with access to int. cables, routers, switches. The partner operates in the U.S., but has access to information that transits the nation and through its corporate relationships provide unique accesses to other telecoms and ISPs. Aggressively involved in shaping traffic to run signals of interest past our monitors.
(TS//SI//NF) ORANGECRUSH, part of the OAKSTAR program under SSO’s corporate portfolio, began forwarding metadata from a third party partner site (Poland) to NSA repositories as of 3 March and content as of 25 March. This program is a collaborative effort between SSO, NCSC, ETC, FAD, an NSA Corporate Partner and a division of the Polish Government. ORANGECRUSH is only known to the Poles as BUFFALOLOGREEN. This multi-group partnership began in May 2009 and will incorporate the OAKSTAR project of ORANGEBLOSSOM and its DNR capability. The new access will provide SIGINT from commercial links managed by the NSA Corporate Partner and is anticipated to include Afghan National Army, Middle East, limited African continent, and European communications. A notification has been posted to SPRINGRAY and this collection is available to Second Parties via TICKETWINDOW.
SILVERZEPHYR FAA DNI Access Initiated at NSA W (TS//SI//NF)

By [NAME REDACTED] on 2009-11-06 0918

(TS//SI//NF) On Thursday, 11/5/09, the SSO-OAKSTAR SILVERZEPHYR (SZ) access began forwarding FAA DNI records to NSA W via the FAA WealthyCluster2/Tellurian system installed at the partner's site. SSO coordinated with the Data Flow Office and forwarded numerous sample files to a test partition for validation, which was completely successful. SSO will continue to monitor the flow and collection to ensure any anomalies are identified and corrected as required. SILVERZEPHYR will continue to provide customers with authorized, transit DNR collection. SSO is working with the partner to gain access to an additional 80Gbs of DNI data on their peering network, bundled in 10 Gbs increments. The OAKSTAR team, along with support from NSAT and GNDA, just completed a 12 day SIGINT survey at site, which identified over 200 new links. During the survey, GNDA worked with the partner to test the output of their ACS system. OAKSTAR is also working with NSAT to examine snapshots taken by the partner in Brazil and Colombia, both of which may contain internal communications for those countries.
STORMBREW At a Glance

Seven Access Sites – International “Choke Points”

- Breckenridge
- Tahoe
- Sun Valley
- Whistler
- Killington
- Copper Mountain
- Maverick

- Transit/FISA/FAA
- DNI/DNR (content & metadata)
- Domestic infrastructure only
- Cable Station/Switches/Routers (IP Backbone)
- Close partnership w/FBI & NCSC
FAA702 Operations
Two Types of Collection

Upstream
• Collection of communications on fiber cables and infrastructure as data flows past.
  (FAIRVIEW, STORMBREW, BLARNEY, OAKSTAR)

You Should Use Both

PRISM
• Collection directly from the servers of these U.S. Service Providers: Microsoft, Yahoo, Google, Facebook, PalTalk, AOL, Skype, YouTube, Apple.
# FAA702 Operations

**Why Use Both: PRISM vs. Upstream**

<table>
<thead>
<tr>
<th></th>
<th>PRISM</th>
<th>Upstream</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DNI Selectors</strong></td>
<td>9 U.S. based service providers</td>
<td>Worldwide sources</td>
</tr>
<tr>
<td><strong>DNR Selectors</strong></td>
<td>Coming soon</td>
<td>Worldwide sources</td>
</tr>
<tr>
<td><strong>Access to Stored</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Communications</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>(Search)</strong></td>
<td></td>
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<tr>
<td><strong>Real-Time Collection</strong></td>
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<tr>
<td><strong>(Surveillance)</strong></td>
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<tr>
<td><strong>“Abouts” Collection</strong></td>
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<tr>
<td><strong>Voice Collection</strong></td>
<td>Voice over IP</td>
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</tr>
<tr>
<td><strong>Direct Relationship with Comms Providers</strong></td>
<td>Only through FBI</td>
<td></td>
</tr>
</tbody>
</table>
PRISM Collection Details

Current Providers

- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

What Will You Receive in Collection (Surveillance and Stored Comms)?
It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details

**Special Requests**

Complete list and details on PRISM web page:
Go PRISMFAA
Unique Selectors Tasked to PRISM (US-984XN) in FY2012

All Providers

32% in FY12

Over 45,000 Selectors on Task at End of FY12

Strong Growth in FY12 Tasking:

- Skype up 248%
- Facebook up 131%
- Google up 63%
PRISM (US-984XN) expanded its impact on NSA’s reporting mission in FY12 through increased tasking, collection and operational improvements. Here are some highlights of the FY12 PRISM program:

PRISM is the most cited collection source in NSA 1st Party end-product reporting. More NSA product reports were based on PRISM than on any other single SIGAD for all of NSA’s 1st Party reporting during FY12: cited in 15.1% of all reports (up from 14% in FY11). PRISM was cited in 13.4% of all 1st, 2nd, and 3rd Party NSA reporting (up from 11.9% in FY11), and is also the top cited SIGAD overall.

Number of PRISM-based end-product reports issued in FY12: 24,096, up 27% from FY11

Single-source reporting percentage in FY12 and FY11: 74%

Number of product reports derived from PRISM collection and cited as sources in articles in the President's Daily Brief in FY12: 1,477 (18% of all SIGINT reports cited as sources in PDB articles – highest single SIGAD for NSA); In FY11: 1,152 (15% of all SIGINT reports cited as sources in PDB articles – highest single SIGAD for NSA)

Number of Essential Elements of Information contributed to in FY12: 4,186 (32% of all EEIs for all Information Needs); 220 EEIs addressed solely by PRISM

Tasking: The number of tasked selectors rose 32% in FY12 to 45,406 as of Sept 2012

Great success in Skype collection and processing; unique, high value targets acquired

Expanded PRISM taskable e-mail domains from only 40, to 22,000
(TS//SI//NF) SSO HIGHLIGHT – Microsoft Skydrive Collection Now Part of PRISM Standard Stored Communications Collection

By [NAME REDACTED] on 2013-03-08 1500

(TS//SI//NF) Beginning on 7 March 2013, PRISM now collects Microsoft Skydrive data as part of PRISM’s standard Stored Communications collection package for a tasked FISA Amendments Act Section 702 (FAA702) selector. This means that analysts will no longer have to make a special request to SSO for this – a process step that many analysts may not have known about. This new capability will result in a much more complete and timely collection response from SSO for our Enterprise customers. This success is the result of the FBI working for many months with Microsoft to get this tasking and collection solution established. “SkyDrive is a cloud service that allows users to store and access their files on a variety of devices. The utility also includes free web app support for Microsoft Office programs, so the user is able to create, edit, and view Word, PowerPoint, Excel files without having MS Office actually installed on their device.” (source: S314 wiki)
(TS//SI//NF) New Skype Stored Comms Capability For PRISM

By NAME REDACTED on 2013-04-03 0631

(TS//SI//NF) PRISM has a new collection capability: Skype stored communications. Skype stored communications will contain unique data which is not collected via normal real-time surveillance collection. SSO expects to receive buddy lists, credit card info, call data records, user account info, and other material. On 29 March 2013, SSO forwarded approximately 2000 Skype selectors for stored communications to be adjudicated in SV41 and the Electronic Communications Surveillance Unit (ECSU) at FBI. SV41 had been working on adjudication for the highest priority selectors ahead of time and had about 100 ready for ECSU to evaluate. It could take several weeks for SV41 to work through all 2000 selectors to get them approved, and ECSU will likely take longer to grant the approvals. As of 2 April, ESCU had approved over 30 selectors to be sent to Skype for collection. PRISM Skype collection has carved out a vital niche in NSA reporting in less than two years with terrorism, Syrian opposition and regime, and exec/special series reports being the top topics. Over 2800 reports have been issued since April 2011 based on PRISM Skype collection, with 76% of them being single source.
(TS//SI//NF) **SSO Expands PRISM Skype Targeting Capability**

By **NAME REDACTED** on 2013-04-03 0629

(TS//SI//NF) On 15 March 2013, SSO’s PRISM program began tasking all Microsoft PRISM selectors to Skype because Skype allows users to log in using account identifiers in addition to Skype usernames. Until now, PRISM would not collect any Skype data when a user logged in using anything other than the Skype username which resulted in missing collection; this action will mitigate that. In fact, a user can create a Skype account using any e-mail address with any domain in the world. UTT does not currently allow analysts to task these non-Microsoft e-mail addresses to PRISM, however, SSO intends to fix that this summer. In the meantime, NSA, FBI and Dept of Justice coordinated over the last six months to gain approval for PRINTAURA to send all current and future Microsoft PRISM selectors to Skype. This resulted in about **9800** selectors being sent to Skype and successful collection has been received which otherwise would have been missed.
(TS//SI//NF) Microsoft releases new service, affects FAA 702 collection

By NAME REDACTED on 2012-12-26 0811

(TS//SI//NF) On 31 July, Microsoft (MS) began encrypting web-based chat with the introduction of the new outlook.com service. This new Secure Socket Layer (SSL) encryption effectively cut off collection of the new service for FAA 702 and likely 12333 (to some degree) for the Intelligence Community (IC). MS, working with the FBI, developed a surveillance capability to deal with the new SSL. These solutions were successfully tested and went live 12 Dec 2012. The SSL solution was applied to all current FISA and 702/PRISM requirements - no changes to UTT tasking procedures were required. The SSL solution does not collect server-based voice/video or file transfers. The MS legacy collection system will remain in place to collect voice/video and file transfers. As a result there will be some duplicate collection of text-based chat from the new and legacy systems which will be addressed at a later date. An increase in collection volume as a result of this solution has already been noted by CES.
(TS//SI//NF) Expanding PRISM Sharing With FBI and CIA

By NAME REDACTED on 2012-08-31 0947

(TS//SI//NF) Special Source Operations (SSO) has recently expanded sharing with the Federal Bureau of Investigations (FBI) and the Central Intelligence Agency (CIA) on PRISM operations via two projects. Through these efforts, SSO has created an environment of sharing and teaming across the Intelligence Community on PRISM operations. First, SSO’s PRINTAURA team solved a problem for the Signals Intelligence Directorate (SID) by writing software which would automatically gather a list of tasked PRISM selectors every two weeks to provide to the FBI and CIA. This enables our partners to see which selectors the National Security Agency (NSA) has tasked to PRISM. The FBI and CIA then can request a copy of PRISM collection from any selector, as allowed under the 2008 Foreign Intelligence Surveillance Act (FISA) Amendments Act law. Prior to PRINTAURA’s work, SID had been providing the FBI and CIA with incomplete and inaccurate lists, preventing our partners from making full use of the PRISM program. PRINTAURA volunteered to gather the detailed data related to each selector from multiple locations and assemble it in a usable form. In the second project, the PRISM Mission Program Manager (MPM) recently began sending operational PRISM news and guidance to the FBI and CIA so that their analysts could task the PRISM system properly, be aware of outages and changes, and optimize their use of PRISM. The MPM coordinated an agreement from the SID Foreign Intelligence Surveillance Act Amendments Act (FAA) Team to share this information weekly, which has been well-received and appreciated. These two activities underscore the point that PRISM is a team sport!
Driver 1: Worldwide SIGINT/Defense Cryptologic Platform

CNE
>50,000 World-wide Implants
AND THEY SAID TO THE TITANS: « WATCH OUT OLYMPIANS IN THE HOUSE! »

CSEC – Advanced Network Tradecraft
SD Conference June 2012

Overall Classification: TOP SECRET//SI
OLYMPIA & THE CASE STUDY

CSEC’s Network Knowledge Engine

Various data sources
Chained enrichments
Automated analysis

Brazilian Ministry of Mines and Energy (MME)

New target to develop
Limited access/target knowledge
TOP SECRET//SI//REL USA, FVEY

National Security Agency/
Central Security Service

Information Paper

3 April 2013

Subject: (U//FOUO) NSA Intelligence Relationship with Canada's Communications Security Establishment Canada (CSEC)

(U) What NSA provides to the partner:

(SI//SI//REL TO USA, CAN) SIGINT: NSA and CSEC cooperate in targeting approximately 20 high-priority countries. NSA shares technological developments, cryptologic capabilities, software and resources for state-of-the-art collection, processing and analytic efforts, and IA capabilities. The intelligence exchange with CSEC covers worldwide national and transnational targets. No Consolidated Cryptologic Program (CCP) money is allocated to CSEC, but NSA at times pays R&D and technology costs on shared projects with CSEC.

(U) What the partner provides to NSA:

(TS//SI//REL TO USA, CAN) CSEC offers resources for advanced collection, processing and analysis, and has opened covert sites at the request of NSA. CSEC shares with NSA their unique geographic access to areas unavailable to the U.S. and provides cryptographic products, cryptanalysis, technology, and software. CSEC has increased its investment in R&D projects of mutual interest.
While we have invested significant analytic and collection effort of our own to find and exploit these communications, the difficulties we face in obtaining regular and reliable access to such communications impacts on our ability to detect and prevent terrorist acts and diminishes our capacity to protect the life and safety of Australian citizens and those of our close friends and allies.

We have enjoyed a long and very productive partnership with NSA in obtaining minimised access to United States warranted collection against our highest value terrorist targets in Indonesia. This access has been critical to DSD’s efforts to disrupt and contain the operational capabilities of terrorists in our region as highlighted by the recent arrest of fugitive Bali bomber Umar Patek.

We would very much welcome the opportunity to extend that partnership with NSA to cover the increasing number of Australians involved in international extremist activities – in particular Australians involved with AQAP.
<table>
<thead>
<tr>
<th>TIER A</th>
<th>Australia</th>
<th>Canada</th>
<th>New Zealand</th>
<th>United Kingdom</th>
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</thead>
<tbody>
<tr>
<td>Comprehensive Cooperation</td>
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<tr>
<td>TIER B</td>
<td>Austria</td>
<td>Belgium</td>
<td>Czech Republic</td>
<td>Denmark</td>
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<tr>
<td>Focused Cooperation</td>
<td>Greece</td>
<td>Germany</td>
<td>Hungary</td>
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<td></td>
<td>Iceland</td>
<td>Italy</td>
<td>Japan</td>
<td>Luxemborg</td>
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<td>Norway</td>
<td>Poland</td>
<td>Portugal</td>
<td>Netherlands</td>
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<td>Norway</td>
<td>South Korea</td>
<td>Spain</td>
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<td></td>
<td></td>
<td>Turkey</td>
</tr>
</tbody>
</table>
## Approved SIGINT Partners

### Second Parties
- Australia
- Canada
- New Zealand
- United Kingdom

### Third Parties
- Algeria
- Austria
- Belgium
- Croatia
- Czech Republic
- Denmark
- Ethiopia
- Finland
- France
- Germany
- Greece
- Hungary
- India
- Israel
- Italy
- Japan
- Jordan
- Korea
- Macedonia
- Netherlands
- Norway
- Pakistan
- Poland
- Romania
- Saudi Arabia
- Singapore
- Spain
- Sweden
- Taiwan
- Thailand
- Tunisia
- Turkey
- UAE

### Coalitions/Multi-lats
- AFSC
- NATO
- SSEUR
- SSPAC
(TS//SI//REL) There are also a few surprises... France targets the US DoD through technical intelligence collection, and Israel also targets us. On the one hand, the Israelis are extraordinarily good SIGINT partners for us, but on the other, they target us to learn our positions on Middle East problems. A NIE [National Intelligence Estimate] ranked them as the third most aggressive intelligence service against the US.
Balancing the SIGINT exchange equally between US and Israeli needs has been a constant challenge in the last decade, it arguably tilted heavily in favor of Israeli security concerns. 9/11 came, and went, with NSA’s only true Third Party CT relationship being driven almost totally by the needs of the partner.
Applications Made to the Foreign Intelligence Surveillance Court During Calendar Year 2012 (section 107 of the Act, 50 U.S.C. § 1807)

During calendar year 2012, the Government made 1,856 applications to the Foreign Intelligence Surveillance Court (the "FISC") for authority to conduct electronic surveillance and/or physical searches for foreign intelligence purposes. The 1,856 applications include applications made solely for electronic surveillance, applications made solely for physical search, and combined applications requesting authority for electronic surveillance and physical search. Of these, 1,789 applications included requests for authority to conduct electronic surveillance.

Of these 1,789 applications, one was withdrawn by the Government. The FISC did not deny any applications in whole or in part.
(S//NF) NSA populates these fields in PROTON:
- Called & calling numbers, date, time & duration of call

(S//SI//REL) ICREACH users will see telephony metadata* in the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE &amp; TIME</td>
<td></td>
</tr>
<tr>
<td>DURATION – Length of Call</td>
<td></td>
</tr>
<tr>
<td>CALLED NUMBER</td>
<td></td>
</tr>
<tr>
<td>CALLING NUMBER</td>
<td></td>
</tr>
<tr>
<td>CALLED FAX (CSI) – Called Subscriber ID</td>
<td></td>
</tr>
<tr>
<td>TRANSMITTING FAX (TSI) –</td>
<td>Transmitting Subscriber ID</td>
</tr>
<tr>
<td>IMSI – International Mobile Subscriber Identifier</td>
<td></td>
</tr>
<tr>
<td>TMSI – Temporary Mobile Subscriber Identifier</td>
<td></td>
</tr>
<tr>
<td>IMEI – International Mobile Equipment Identifier</td>
<td></td>
</tr>
<tr>
<td>MSISDN – Mobile Subscriber Integrated Services Digital Network</td>
<td></td>
</tr>
<tr>
<td>MDN – Mobile Dialed Number</td>
<td></td>
</tr>
<tr>
<td>CLI – Call Line Identifier (Caller ID)</td>
<td></td>
</tr>
<tr>
<td>DSME – Destination Short Message Entity</td>
<td></td>
</tr>
<tr>
<td>OSME – Originating Short Message Entity</td>
<td></td>
</tr>
<tr>
<td>VLR – Visitor Location Register</td>
<td></td>
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</tbody>
</table>
Private Networks are Important

- Many targets use private networks.

<table>
<thead>
<tr>
<th>Google infrastructure</th>
<th>SWIFT Network</th>
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</thead>
<tbody>
<tr>
<td>REDACTED</td>
<td>REDACTED</td>
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<tr>
<td>REDACTED</td>
<td>Gazprom</td>
</tr>
<tr>
<td>Aeroflot</td>
<td>REDACTED</td>
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<tr>
<td>French MFA</td>
<td>REDACTED</td>
</tr>
<tr>
<td>Warid Telecom</td>
<td>Petrobras</td>
</tr>
<tr>
<td>REDACTED</td>
<td>REDACTED</td>
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</tbody>
</table>

- Evidence in Survey: 30%-40% of traffic in BLACKPEARL has at least one endpoint private.
SERVING OUR CUSTOMERS

Major Finished Intelligence Producers:
- CIA
- DIA
- State/INR
- NGA
- National Intelligence Council

Policymakers/Law Enforcement:
- White House
- Cabinet Officers
- Director Central Intelligence
- U.S. Ambassadors
- U.S. Trade Representative
- Congress
- Departments of:
  - Agriculture
  - Justice
  - Treasury
  - Commerce
  - Energy
  - State
  - Homeland Security

Military/Tactical:
- JCS
- CINCs
- Task Forces
- Tactical Commands
- All Military Services
- Department of Defense
  - Alliances
  - UN Forces
  - NATO
BLARNEY AT A GLANCE

Why: Started in 1978 to provide FISA authorized access to communications of foreign establishments, agents of foreign powers, and terrorists

<table>
<thead>
<tr>
<th>External Customers (Who)</th>
<th>Information Requirements (What)</th>
<th>Collection Access and Techniques (How)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of State</td>
<td>Counter Proliferation</td>
<td>DNI Strong Selectors</td>
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<tr>
<td>Central Intelligence Agency</td>
<td>Counter Terrorism</td>
<td>DNI Strong Selectors</td>
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<td>United States UN Mission</td>
<td>Diplomatic</td>
<td>DNI Circuits</td>
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<td>White House</td>
<td>Economic</td>
<td>DNR Circuits</td>
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<td>Defense Intelligence Agency</td>
<td>Military</td>
<td>Mobile Wireless</td>
</tr>
<tr>
<td>National Counterterrorism Center</td>
<td>Political/Intention of Nations</td>
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</tbody>
</table>
(TS//SI) US-984 (PDDG: AX) – provides collection against DNR and DNI FISA Court Order authorized communications.

(TS//SI) Key Targets: Diplomatic establishment, counterterrorism, Foreign Government, Economic
A Week in the Life of PRISM Reporting

Sampling of Reporting Topics from 2-8 Feb 2013

- Mexico
  - Narcotics
  - Energy
  - Internal security
  - Political Affairs

- Japan
  - Trade
  - Israel

- Venezuela
  - Military procurement
  - Oil
(U) NSA Washington Mission

(U) Regional

(TS//SI) ISI is responsible for 13 individual nation states in three continents. One significant tie that binds all these countries together is their importance to U.S. economic, trade, and defense concerns. The Western Europe and Strategic Partnerships division primarily focuses on foreign policy and trade activities of Belgium, France, Germany, Italy, and Spain, as well as Brazil, Japan and Mexico.

(TS//SI) The Energy and Resource branch provides unique intelligence on worldwide energy production and development in key countries that affect the world economy. Targets of current emphasis are [REDACTED] and the [REDACTED]. Reporting has included the monitoring of international investment in the energy sectors of target countries, electrical and Supervisory Control and Data Acquisition (SCADA) upgrades, and computer aided designs of projected energy projects.
The more than 100 reports we received from the NSA gave us deep insight into the plans and intentions of other Summit participants, and ensured that our diplomats were well prepared to advise President Obama and Secretary Clinton on how to deal with contentious issues, such as Cuba, and interact with difficult counterparts, such as Venezuelan President Chavez.
(U//FOUO) S2C42 surge effort

(U) Goal

(TS//SI//REL) An increased understanding of the communication methods and associated selectors of Brazilian President Dilma Rousseff and her key advisers.
(U//FOUO) S2C41 surge effort

(TS//SI//REL) NSA’s Mexico Leadership Team (S2C41) conducted a two-week target development surge effort against one of Mexico’s leading presidential candidates, Enrique Pena Nieto, and nine of his close associates. Nieto is considered by most political pundits to be the likely winner of the 2012 Mexican presidential elections which are to be held in July 2012. SATC leveraged graph analysis in the development surge’s target development effort.
(U) Results

- (S//SI//REL) 85489 Text messages
- Interesting Messages

- (TS//SI//REL) Number for Travel coordinator
- (TS//SI//REL) Jorge Corona – Close associate of Nieto

[Redacted text]

Me dice Jorge Corona Srio de EFN que el escucho que BPR se ir a con Moreira no es asi? Y pues va soka salvo que le digas a alguien. Assoc ID not requested, not requested, not requested,

[Redacted text]

Mi Querido Alex el nuevo titular de Com. Social es Juan Ramon Flores su cel es [Redacted], el ID [Redacted], Nuevo Srio. Part. Es Lic. Miguel Angel Gonzalez Cel [Redacted] el Nuevo ID de JORGE CORONA es [Redacted] un abrazo y seguimos en contacto avisame si llego el msg. por favor....,
(U) Conclusion

- (S//REL) Contact graph-enhanced filtering is a simple yet effective technique, which may allow you to find previously unobtainable results and empower analytic discovery.

- (TS//SI//REL) Teaming with S2C, SATC was able to successfully apply this technique against high-profile, OPSEC-savvy Brazilian and Mexican targets.
(TS//SI//NF) **BLARNEY** Team assists S2C52 analysts in implementing Xkeyscore fingerprints that yield access to U.N. Secretary General talking points prior to meeting with POTUS.
(S//SI) BLARNEY Team Provides Outstanding Support to Enable UN Security Council Collection

By [NAME REDACTED] on 2010-05-28 1430

(TS//SI//NF) With the UN vote on sanctions against Iran approaching and several countries riding the fence on making a decision, Ambassador Rice reached out to NSA requesting SIGINT on those countries so that she could develop a strategy. With the requirement that this be done rapidly and within our legal authorities, the BLARNEY team jumped in to work with organizations and partners both internal and external to NSA.

(TS//SI//NF) As OGC, SV and the TOPIs aggressively worked through the legal paperwork to expedite four new NSA FISA court orders for Gabon, Uganda, Nigeria and Bosnia, BLARNEY Operations Division personnel were behind the scenes gathering data determining what survey information was available or could be obtained via their long standing FBI contacts. As they worked to obtain information on both the UN Missions in NY and the Embassies in DC, the target development team greased the skids with appropriate data flow personnel and all preparations were made to ensure data could flow to the TOPIs as soon as possible. Several personnel, one from legal team and one from target development team were called in on Saturday 22 May to support the 24 hour drill legal paperwork exercise doing their part to ensure the orders were ready for the NSA Director’s signature early Monday morning 24 May.

(S//SI) With OGC and SV pushing hard to expedite these four orders, they went from the NSA Director for signature to DoD for SECDEF signature and then to DOJ for signature by the FISC judge in record time. All four orders were signed by the judge on Wednesday 26 May! Once the orders were received by the BLARNEY legal team, they sprung into action parsing these four orders plus another “normal” renewal in one day. Parsing five court orders in one day - a BLARNEY record! As the BLARNEY legal team was busily parsing court orders the BLARNEY access management team was working with the FBI to pass tasking information and coordinate the engagement with telecommunications partners.
(U//FOUO) Silent Success: SIGINT Synergy Helps Shape US Foreign Policy

(TS//SI//NF) At the outset of these lengthy negotiations, NSA had sustained collection against France, Japan, Mexico, Brazil.

(TS//SI//REL) In late spring 2010, eleven branches across five Product Lines teamed with NSA enablers to provide the most current and accurate information to USUN and other customers on how UNSC members would vote on the Iran Sanctions Resolution. Noting that Iran continued its non-compliance with previous UNSC resolutions concerning its nuclear program, the UN imposed further sanctions on 9 June 2010. SIGINT was key in keeping USUN informed of how the other members of the UNSC would vote.

(TS//SI//REL) The resolution was adopted by twelve votes for, two against (Brazil and Turkey), and one abstention from Lebanon. According to USUN, SIGINT "helped me to know when the other Permreps [Permanent Representatives] were telling the truth... revealed their real position on sanctions... gave us an upper hand in negotiations... and provided information on various countries 'red lines.'"
10 Sep 2010
CLOSE ACCESS SIGADS

CLOSE ACCESS SIGADS
All Close Access domestic collection uses the US-3136 SIGAD with a unique
two-letter suffix for each target location and mission. Close Access overseas
GENIE collection has been assigned the US-3137 SIGAD with a two-letter suf-
fix.

(Note: Targets marked with an * have either been dropped or are slated to be dropped
in the near future. Please check with TAO/RTD/ROS (961-1578s) regarding authorities
status.)

SIGAD  US-3136

<table>
<thead>
<tr>
<th>SUFFIX</th>
<th>TARGET/COUNTRY</th>
<th>LOCATION</th>
<th>COVERTERM</th>
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</table>

**GENERAL TERM DESCRIPTIONS**

**HIGHLANDS**: Collection from Implants  
**VAGRANT**: Collection of Computer Screens  
**MAGNETIC**: Sensor Collection of Magnetic Emanations  
**MINERALIZE**: Collection from LAN Implant  
**OCEAN**: Optical Collection System for Raster-Based Computer Screens
LIFESAVER: Imaging of the Hard Drive
GENIE: Multi-stage operation; jumping the airgap etc.
BLACKHEART: Collection from an FBI Implant
PBX: Public Branch Exchange Switch
CRYPTO ENABLED: Collection derived from AO’s efforts to enable crypto
DROPMIRE: passive collection of emanations using an antenna
CUSTOMS: Customs opportunities (not LIFESAVER)
DROPMIRE: Laser printer collection, purely proximal access (**NOT** implanted)
DEWSWEeper: USB (Universal Serial Bus) hardware host tap that provides COVERT link over USB link into a target network. Operates wiRF relay subsystem to provide wireless Bridge into target network.
RADON: Bi-directional host tap that can inject Ethernet packets onto the same target. Allows bi-directional exploitation of Denied networks using standard on-net tools.
(U) Stealthy Techniques Can Crack Some of SIGINT's Hardest Targets

By: (U//FOUO) **NAME REDACTED**, Chief, Access and Target Development (S3261)

(TS//SI//NF) Not all SIGINT tradecraft involves accessing signals and networks from thousands of miles away... In fact, sometimes it is very hands-on (literally!). Here's how it works: shipments of computer network devices (servers, routers, etc.) being delivered to our targets throughout the world are intercepted. Next, they are redirected to a secret location where Tailored Access Operations/Access Operations (AO – S326) employees, with the support of the Remote Operations Center (S321), enable the installation of beacon implants directly into our targets' electronic devices. These devices are then re-packaged and placed back into transit to the original destination. All of this happens with the support of Intelligence Community partners and the technical wizards in TAO.
(TS//SI//NF) Such operations involving supply-chain interdiction are some of the most productive operations in TAO, because they pre-position access points into hard target networks around the world.

(TS//SI//NF) Left: Intercepted packages are opened carefully; Right: A “load station” implants a beacon
(TS//SI//NF) In one recent case, after several months a beacon implanted through supply-chain interdiction called back to the NSA covert infrastructure. This call back provided us access to further exploit the device and survey the network.
TOP SECRET//COMINT//REL TO USA, FVEY
(Report generated on 4/11/2013 3:31:05PM)

NewCrossProgram
CrossProgram-1-13 New
Active ECP Count: 1
ECP Lead: NAME REDACTED

Title of Change: Update Software on all Cisco ONS Nodes
Submitter: NAME REDACTED
Approval Priority: C-Routine
Site(s):
APPLE: CLEVERDEVICE
HOME: DODGUT
QUARTERPOUNDER: QUEENSLAND: SCALLION
SPORT20: SUBSTRATUM: TITAN
POINTE: SUBSTRATUM: BIRCHWOOD: MAYTAG
EAGLE: EDEN

System(s):
Comms/Network:
Comms/Network:
Comms/Network:

Subsystem(s): No Subsystem(s) Entered

Description of Change:
Update software on all Cisco Optical Network Switches.

Reason for Change:
All of our Cisco ONS SONET multiplexers are experiencing a software bug that causes them to intermittently drop out.
The mission impact is unknown. While the existing bug doesn't appear to affect traffic, applying the new software update could. Unfortunately, there is now way to be sure. We can't simulate the bug in our lab and so it's impossible to predict exactly what will happen when we apply the software update. We propose to update one of the nodes in NBP-320 first to determine if the update goes smoothly.

Recently we tried to reset the standby manager card in the HOMEKER node. When that failed, we attempted to physically reset it. Since it was the standby card, we did not expect that would cause any problems. However, upon reseting the card, the entire ONS crashed and we lost all traffic through the box. It took more than an hour to recover from this failure.

The worst case scenario is that we have to blow away the entire configuration and start from scratch. Prior to starting our upgrade, we will save the configuration so that if we have to configure the box from scratch, we can simply upload the saved configuration. We estimate that we will be down for no more than an hour for each node in the system.

Additional Info: 3/28/2013 8:16:13 AM
NAME REDACTED

Last CCB Entry: 04/10/13 16:08:11 NAME REDACTED
09 Apr Barney CCB
Barney ECP board approved

ECP lead: NAME REDACTED

Programs Affected:
Blarney Fairview Oakstar Stormbrew
No Related Work Tasks
The Challenge

Collection is outpacing our ability to ingest, process and store to the “norms” to which we have become accustomed.
(S//SI//REL) Increases NSA communications metadata sharing from 50 billion records to 850+ billion records (grows by 1-2 billion records per day)

*(C//REL) Includes Call Events from 2nd Party SIGINT Partners (est. 126 Billion records)*
(S//NF) Call Events in PROTON*

- Total Call Events in NSA PROTON*  est. 149 Billion

  Of those:

  - Total Call Events Non-NSA  est. 101 Billion
  - Total Call Events Non-NSA, Non-NOFORN, Non-HCS  est. 92,000

- For date range 2000-2006, as of early July 2006; some data has been aged off system
What XKS does with the Sessions

Plug-ins extract and index metadata into tables

[diagram showing sessions, processing engine, database, user queries, phone numbers, email addresses, log ins, user activity, full log, database]
<table>
<thead>
<tr>
<th>Plug-in</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail Addresses</td>
<td>Indexes every E-mail address seen in a session by both username and domain</td>
</tr>
<tr>
<td>Extracted Files</td>
<td>Indexes every file seen in a session by both filename and extension</td>
</tr>
<tr>
<td>Full Log</td>
<td>Indexes every DNI session collected. Data is indexed by the standard N-tuple (IP, Port, Casenotation etc.)</td>
</tr>
<tr>
<td>HTTP Parser</td>
<td>Indexes the client-side HTTP traffic (examples to follow)</td>
</tr>
<tr>
<td>Phone Number</td>
<td>Indexes every phone number seen in a session (e.g. address book entries or signature block)</td>
</tr>
<tr>
<td>User Activity</td>
<td>Indexes the Webmail and Chat activity to include username, buddylist, machine specific cookies etc.</td>
</tr>
</tbody>
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### Examples of “advanced” Plug-ins

<table>
<thead>
<tr>
<th>Plug-in</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>User Activity</td>
<td>Indexes the Webmail and Chat activity to include username, buddylist, machine specific cookies etc. (AppProc does the exploitation)</td>
</tr>
<tr>
<td>Document metadata</td>
<td>Extracts embedded properties of Microsoft Office and Adobe PDF files, such as Author, Organization, date created etc.</td>
</tr>
</tbody>
</table>
Why are we interested in HTTP?

Because nearly everything a typical user does on the Internet uses HTTP.
Why are we interested in HTTP?

Almost all web-browsing uses HTTP:

- Internet surfing
- Webmail (Yahoo/Hotmail/Gmail/etc.)
- OSN (Facebook/MySpace/etc.)
- Internet Searching (Google/Bing/etc.)
- Online Mapping (Google Maps/Mapquest/etc.)
XKS HTTP Activity Search

Another common query is analysts who want to see all traffic from a given IP address (or IP addresses) to a specific website.
XKS HTTP Activity Search

- For example let’s say we want to see all traffic from IP Address 1.2.3.4 to the website www.website.com

- While we can just put the IP address and the “host” into the search form, remember what we saw before about the various host names for a given website
Creating Email Address Queries

Enter usernames and domains into query

Search: Email Addresses

- Query Name: kmkeith_2
- Justification: aqi in iran sample
- Additional Justification:
- Miranda Number:
- Datetime: 1 Day, Start: 2009-06-23 00:00, Stop: 2
- Email Username: badguy or baddude1 or badguysemail
- @Domain: yahoo.com
- Subject:

Multiple usernames from SAME domain can be OR’d
Email Addresses Query:
One of the most common queries is (you guessed it) an Email Address Query searching for an email address. To create a query for a specific email address, you have to fill in the name of the query, justify it and set a date range then you simply fill in the email address(es) you want to search on and submit.

That would look something like this...

![Email Addresses Query Form]

- Query Name: abujihad
- Justification: ct target in n africa
- Additional Justification:
- Miranda Number:
- Datetime: 1 Month
- Start: 2008-12-24
- Email Username: abujihad
- Domain: yahoo.com
What intelligence do OSN’s provide to the IC?

(S//SI//REL TO USA, FVEY) Insight into the personal lives of targets MAY include:

- (U) Communications
- (U) Day to Day activities
- (U) Contacts and social networks
- (U) Photographs
- (U) Videos
- (U) Personnel information (e.g. Addresses, Phone, Email addresses)
- (U) Location and Travel Information
XKEYSCORE: 41,996,304,149 Records
(TS//SI//NF) BLARNEY Exploits the Social Network via Expanded Facebook Collection

By [NAME REDACTED] on 2011-03-14 0737

(TS//SI//NF) SSO HIGHLIGHT – BLARNEY Exploits the Social Network via Expanded Facebook Collection

(TS//SI//NF) On 11 March 2011, BLARNEY began delivery of substantially improved and more complete Facebook content. This is a major leap forward in NSA’s ability to exploit Facebook using FISA and FAA authorities. This effort was initiated in partnership with the FBI six months ago to address an unreliable and incomplete Facebook collection system. NSA is now able to access a broad range of Facebook data via surveillance and search activities. OPIS are excited about receiving many content fields, such as chat, on a sustained basis that had previously only been occasionally available. Some content will be completely new including subscriber videos. Taken together, the new Facebook collection will provide a robust SIGINT opportunity against our targets – from geolocation based on their IP addresses and user agent, to collection of all of their private messages and profile information. Multiple elements across NSA partnered to ensure the successful delivery of this data. An NSA representative at FBI coordinated the rapid development of the collection system; SSO’s PRINTAURA team wrote new software and made configuration changes; CES modified their protocol exploitation systems and the Technology Directorate fast-tracked upgrades to their data presentation tools so that OPIS could view the data properly.
Exploiting Facebook traffic in the passive environment to obtain specific information

NAME REDACTED
Capability Developer
Global Telecommunications Exploitation (GTE)
GCHQ

This information is exempt from disclosure under the Freedom of Information Act 2000 and may be subject to exemption under other UK information legislation. Refer disclosure requests to GCHQ.

CONTACT INFORMATION REDACTED
Why OSNs?

- Targets increasing usage of Facebook, BEBO, MySpace etc.
- A very rich source of information on targets:
  - Personal details
  - ‘Pattern of Life’
  - Connections to associates
  - Media
Looking to the Passive Environment

- Many targets on Facebook lock down their profiles, so it is not possible to view all of their information...

But passive offers the opportunity to collect this information by exploiting inherent weaknesses in Facebook’s security model.
Facebook's use of the Akamai CDN

Users

Username/Password Authentication

Mobile/Desktop Web-browser or Facebook Client

HTTP Request for Image

Images

Core Facebook Servers

Facebook Content Delivery Network (CDN) Servers

Profile images, album images...

This information is exempt from disclosure under the Freedom of Information Act 2000 and may be subject to exemption under other UK information legislation. Refer disclosure requests to GCHQ on CONTACT INFORMATION REDACTED
Exploiting the FB CDN

- Weaknesses
  - Assumed Authentication
  - Security through obscurity

It is possible to dissect the CDN URL's generated by Facebook in order to extract the Facebook User ID of the user whose picture the file pertains to. For example, below is a typical profile image URL:

http://profile.ak.fbcdn.net/hprofile-ak-sf2p/
hs621.snc3/27353____2215_q.jpg

The text highlighted in green specifically relates to the specific server within Facebook's CDN. And the text highlighted in yellow is the user's Facebook User ID.
THIEVING MAGPIE
Using on-board GSM/GPRS services to track targets

NAME & CONTACT INFORMATION REDACTED

TOP SECRET//COMINT//REL TO USA, FVEY STRAP1
This information is exempt from disclosure under the Freedom of Information Act 2000 and may be subject to exemption under other UK information legislation. Refer disclosure requests to GCHQ on CONTACT INFORMATION REDACTED
On board GSM Services

• Many airlines are offering on-board mobile phone services, particularly for long haul and business class (list is growing)
• At least British Airways are restricting the service to data and SMS only – no voice
Global coverage via SOUTHWINDS is planned in the next year
GPRS Events

• Currently able to produce events for at least Blackberry phones in flight
• Able to identify Blackberry PIN and associated Email addresses
• Tasked content into datastores, unselected to Xkeyscore, further details of usage available
Travel Tracking

• We can confirm that targets selectors are on board specific flights in near real time, enabling surveillance or arrest teams to be put in place in advance.
• If they use data, we can also recover email address’s, Facebook Ids, Skype addresses etc.
• Specific aircraft can be tracked approximately every 2 minutes whilst in flight.
(U) ANALYTIC DRIVER (CONT.)

(S//SI//REL FVEY) Analytic Question
Given a GSM handset detected on a known aircraft flight, what is the likely identity (or identities) of the handset subscriber (and vice-versa)?

(TS//SI//REL FVEY) Proposed Process
Auto correlation of GSM handsets to subscribers observed on two or more flights.
(U) GOING FORWARD

- (TS//SI//REL FVEY) SATC will complete development once a reliable THIEVING MAGPIE data feed has been established.
- (TS//SI//REL FVEY) Once the QFD is complete, it will be available to FVEY users as a RESTful web service, JEMA component, and a light weight web page.
- (TS//SI//REL FVEY) If the S2 QFD Review Panel elects to ask for HOMING PIGEON to be made persistent, its natural home would be incorporation into FASTSCOPE.
Oh Yeah...

- Put Money, National Interest, and Ego together, and now you’re talking about shaping the world writ large.

*What country doesn’t want to make the world a better place... for itself?*
What’s the Threat?

Let’s be blunt – the Western World (especially the US) gained influence and made a lot of money via the drafting of earlier standards.

- The US was the major player in shaping today’s Internet. This resulted in pervasive exportation of American culture as well as technology. It also resulted in a lot of money being made by US entities.
THE THREAT TODAY

Internet
Wireless
High-Speed Circuits
Pagers
Facsimile
Satellite
BACKGROUND (U)

(TS//SI//REL TO USA, FVEY) A previous SIGINT assessment report on radicalization indicated that radicalizers appear to be particularly vulnerable in the area of authority when their private and public behaviors are not consistent. (A) Some of the vulnerabilities, if exposed, would likely call into question a radicalizer's devotion to the jihadist cause, leading to the degradation or loss of his authority. Examples of some of these vulnerabilities include:

- Viewing sexually explicit material online or using sexually explicit persuasive language when communicating with inexperienced young girls;
- Using a portion of the donations they are receiving from the susceptible pool to defray their own personal expenses;
- Charging an exorbitant amount of money for their speaking fees and being singularly attracted by opportunities to increase their stature; or
- Being known to base their public messaging on questionable sources or using language that is contradictory in nature, leaving them open to credibility challenges.

(TS//SI//REL TO USA, FVEY) Issues of trust and reputation are important when considering the validity and appeal of the message. It stands to reason that exploiting vulnerabilities of character, credibility, or both, of the radicalizer and his message could be enhanced by an understanding of the vehicles he uses to disseminate his message to the susceptible pool of people and where he is vulnerable in terms of access.
(U) Manhunting Timeline 2010

TOP SECRET//SI/TK//NOFORN

Jump to: navigation, search

Main article: Manhunting

See also: Manhunting Timeline 2011
See also: Manhunting Timeline 2009
See also: Manhunting Timeline 2008

(U) The following manhunting operations took place in Calendar Year 2010:

[edit] (U) November

Contents

[edit] (U) United States, Australia, Great Britain, Germany, Iceland

(U) The United States on 10 August urged other nations with forces in Afghanistan, including Australia, United Kingdom, and Germany, to consider filing criminal charges against Julian Assange, founder of the rogue WikiLeaks Internet website and responsible for the unauthorized publication of over 70,000 classified documents covering the war in Afghanistan. The documents may have been provided to Wikileaks by Army Private First Class Bradley Manning. The appeal exemplifies the start of an international effort to focus the legal element of national power upon non-state actor Assange, and the human network that supports Wikileaks. [16]
**[edit]** (TS//SI//REL) Malicious foreign actor == disseminator of US data?

Can we treat a foreign server who stores, or potentially disseminates leaked or stolen US data on it's server as a 'malicious foreign actor' for the purpose of targeting with no defeats? Examples: WikiLeaks, thepiratebay.org, etc.

NOC/OGC RESPONSE: Let us get back to you. (Source #001)

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**[edit]** (TS//SI//REL) Unknowingly targeting a US person

I screwed up...the selector had a strong indication of being foreign, but it turned out to be US...now what?

NOC/OGC RESPONSE: With all querying, if you discover it actually is US, then it must be submitted and go in the OGC quarterly report...*but it's nothing to worry about*. (Source #001)
EFFECTS: Definition

• “Using online techniques to make something happen in the real or cyber world”

• Two broad categories:
  - Information Ops (influence or disruption)
  - Technical disruption

• Known in GCHQ as Online Covert Action

• The 4 D’s: Deny / Disrupt / Degrade / Deceive
Discredit a target

- Set up a honey-trap
- Change their photos on social networking sites
- Write a blog purporting to be one of their victims
- Email/text their colleagues, neighbours, friends etc
CK

Honey-trap; a great option. Very successful when it works.
- Get someone to go somewhere on the internet, or a physical location to be met by a "friendly face".
- JTRIG has the ability to "shape" the environment on occasions.

Photo change; you have been warned, "JTRIG is about!!"
Can take "paranoia" to a whole new level.

Email/text:
- Infiltration work.
- Helps JTRIG acquire credibility with online groups etc.
- Helps with bringing SIGINT/Effects together.
Stop Someone From Communicating

- Bombard their phone with text messages
- Bombard their phone with calls
- Delete their online presence
- Block up their fax machine
Stop someone’s computer from working

- Send them a virus:
  - AMBASSADORS RECEPTION – encrypt itself, delete all emails, encrypt all files, make screen shake, no more log on

- Conduct a Denial of Service attack on their computer
Why do an Effects Operation?

- Disruption v Traditional Law Enforcement
- SIGINT discovered the targets
- Disruption techniques could save time and money
Effects on Hacktivism

- Op WEALTH – Summer 2011
  - Intel support to Law Enforcement – identification of top targets
  - Denial of Service on Key Communications outlets
  - Information Operations
DISRUPTION
Operational
Playbook

• Infiltration Operation
• Ruse Operation
• Set Piece Operation
• False Flag Operation
• False Rescue Operation
• Disruption Operation
• Sting Operation