



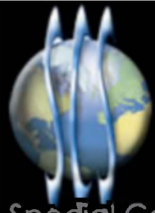
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Pacific SIGDEV Conference  
March 2011

The Overall Classification of this Briefing:

TOP SECRET//COMINT//REL USA, AUS, CAN, GBR, NZL

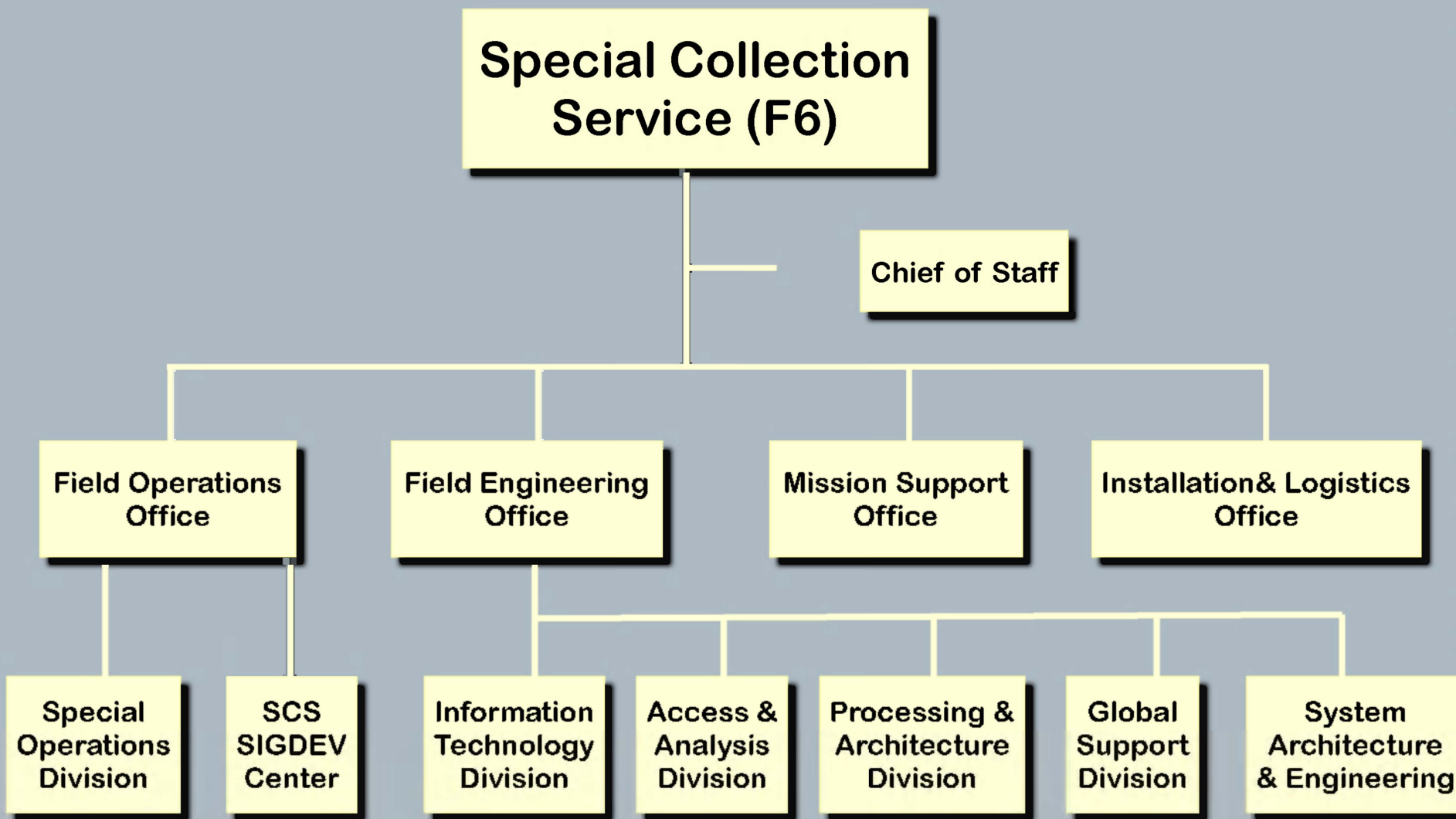
Derived From: NSA/CSSM 1-52  
Dated: 20070108  
Declassify On: 20360301



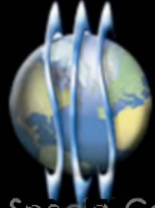
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# SCS Organization



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# Strategic Partnerships

**SIGINT Enabling  
HUMINT**

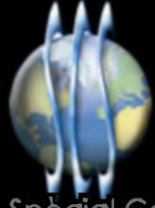
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**HUMINT Enabling  
SIGINT**

DEA  
DIA  
NRO  
SSO  
FBI  
State  
Secret Service  
Law Enforcement  
Homeland Security  
Tailored Access  
COVCOM  
Military  
CLANSIG  
Second Party



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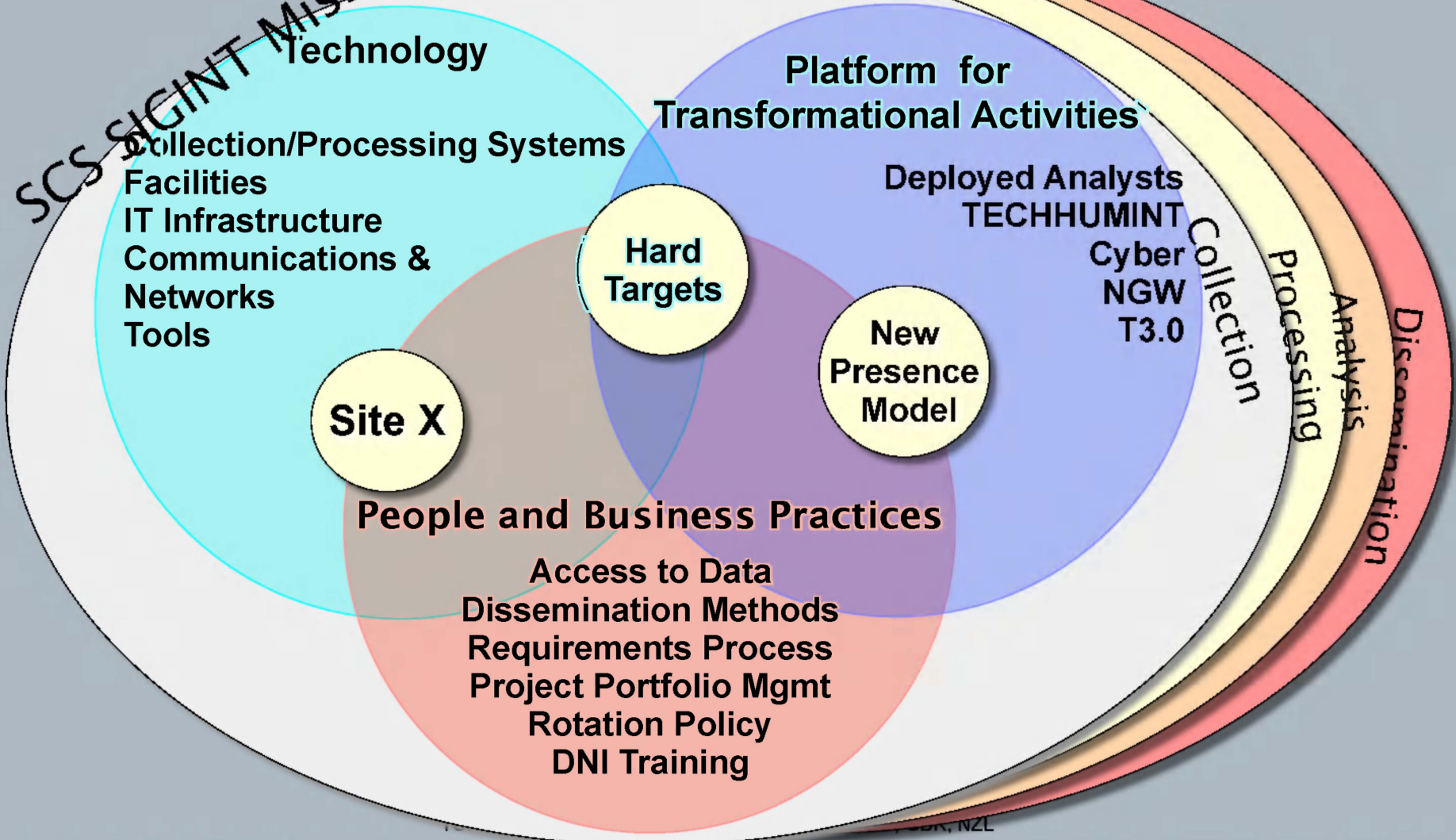


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# SCS Modernization

SCS SIGINT Mission



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# Overview

- **Unified IT Core and Virtualization**
- **Cloud Computing**
- **Global Situational Awareness**
- **Beyond Traditional Accesses**
- **Coherent Digital Access**
- **Empowering Automation**
- **The SCS Cyber Advantage**

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# Unified IT Core

## IT Services, IT Infrastructure

- **Capability Improvements:**
  - Modern IT services and infrastructure to support a net-centric operational model and enhance maintenance and security
- **Capability Change:**
  - Rapid response SIGINT presence
  - Next generation virtual infrastructure
  - Diversified WAN topology, enhanced LAN
  - Enhanced interoperable desktop
  - Improved email service
  - Workforce mobility
  - Robust collaboration environment
  - Site destruct enabler

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# EINSTEIN/CASTANET



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# INTERQUAKE

- Terrestrial Environmental Knowledge Base
  - Available to all NSA analysts and partners
- PANOPLY populates IQ with Emitter information and reports including:
  - Signal External
  - Radio and Payload information
  - LACs and Cell ID's
  - Protocol Stacks

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# INTERQUAKE

INTERQUAKE 4 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://interquake.in.is.f.usa/

INTERQUAKE 4

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**INTERQUAKE** [Return](#)

1150-1001  
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RFAHON.V

**Logout**

- Home
- Emitters
  - View
  - By Site
  - By Inactive Sites
  - By Site
  - Groups
  - Surveys
  - Signals
  - RFA's
  - Flows
  - Payload
  - Queries
  - Snapshots
  - Reports
  - Sites
  - Misc
  - Help
- Problems/Questions?
- Contact

**Emitters**

Legend (Click to filter on emitters) Additional Quick Filters  
 P = Has Confirmed Loadings S = Has Snapshots RFA Pending On Collection In Bold Has Scripts?

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Views: Default Filters: Settings: Export: -Select-

|  |  | Freq (MHz) | Site    | Case  | Signal Name | BR (Mbps) | Mod    | Payload | SNR | BER | A <sub>0</sub> | EI | Pol | BW (MHz) |
|--|--|------------|---------|-------|-------------|-----------|--------|---------|-----|-----|----------------|----|-----|----------|
|  |  | 17947      | US-968U | WU1CT | 0019396IA   | 19.396    | DFSK   |         | 30  |     | 330            | 0  | V   |          |
|  |  | 12792      | US-968U | WU1AG | 0019396KA   | 19.396    | 8FSK   |         | 18  |     | 39             | 0  | H   | 27       |
|  |  | 13031      | US-968U | WU1AA | 0019396KA   | 19.396    | 8FSK   |         | 32  |     | 96             | 2  | H   | 40       |
|  |  | 12775.5    | US-968U | WU1AD | 0019396KA   | 19.396    | 8FSK   |         | 25  |     | 319            | 0  | V   | 35       |
|  |  | 10915      | US-968U | WU1AC | 0024192XA   | 24.192    | 128QAM | STM1    | 18  |     | 84             | -1 | H   | 30       |
|  |  | 7362       | US-968U | WU1BP |             | 24.457    | 128QAM |         |     |     |                |    |     |          |
|  |  | 7296       | US-968U | WU XX |             | 24.457    | 128QAM |         |     |     |                |    |     |          |
|  |  | 7526       | US-968U | WU XX | 0025100XA   | 25.100    | 128QAM | STM1    | 30  |     | 320            | 0  | V   | 35       |
|  |  | 7492       | US-968U | WU XX |             | 23.926    | 128QAM |         | 10  |     | 23             | 1  | V   | 34       |
|  |  | 7435.75    | US-968U | WU XX |             | 23.926    | 128QAM |         | 15  |     | 14             | 1  | V   | 31       |
|  |  | 7624       | US-968U | WU XX |             | 23.926    | 128QAM |         | 10  |     | 59             | 4  | H   | 30       |
|  |  | 10917      | US-968U | WU XX |             | 24.199    | 128QAM |         | 11  |     | 83             | 0  | V   | 33       |
|  |  | 10757.75   | US-968U | WU XX |             | 24.199    | 128QAM |         | 23  |     | 81             | -1 | V   | 39       |
|  |  | 7517.5     | US-968U | WU XX |             | 23.926    | 128QAM |         | 3   |     | 11             | -1 | H   | 20.5     |
|  |  | 7596       | US-968U | WU1CA | 0024192XA   | 24.192    | 128QAM | STM1    | 40  |     | 226            | 0  | H   | 30       |
|  |  | 7652       | US-968U | WU 03 | 0024192XA   | 24.192    | 128QAM | STM1    | 40  |     | 226            | 0  | H   | 30       |
|  |  | 7075       | US-968U | WU XX |             | 23.926    | 128QAM |         | 10  |     | 59             | 4  | V   | 33       |
|  |  | 7708       | US-968U | WU G4 | 0024192XA   | 24.192    | 128QAM | STM1    | 40  |     | 226            | 0  | H   | 33       |
|  |  | 2675       | US-968U | WU1CU | 0005057WA   | 5.057     | 64QAM  |         | 28  |     | 281            | 12 | H   | 6        |
|  |  | 4828.7     | US-968U | WU XX |             | 30.101    | 64QAM  |         | 3   |     | 233            | 0  | V   |          |
|  |  | 7435       | US-968U | WU XX |             | 12.376    | 64QAM  |         | 5   |     | 81             | -1 | H   | 18       |
|  |  | 4540.5     | US-968U | WU XX |             | 31.101    | 61QAM  |         | 13  |     | 233            | 5  | H   | 44       |
|  |  | 7808.3     | US-968U | WU1VY |             | 24.981    | 64QAM  |         | 7   |     | 254            | 0  | H   | 39       |

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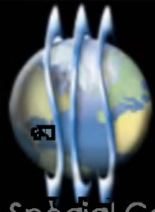
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# CES/SSC/AAD VPN “Surge”

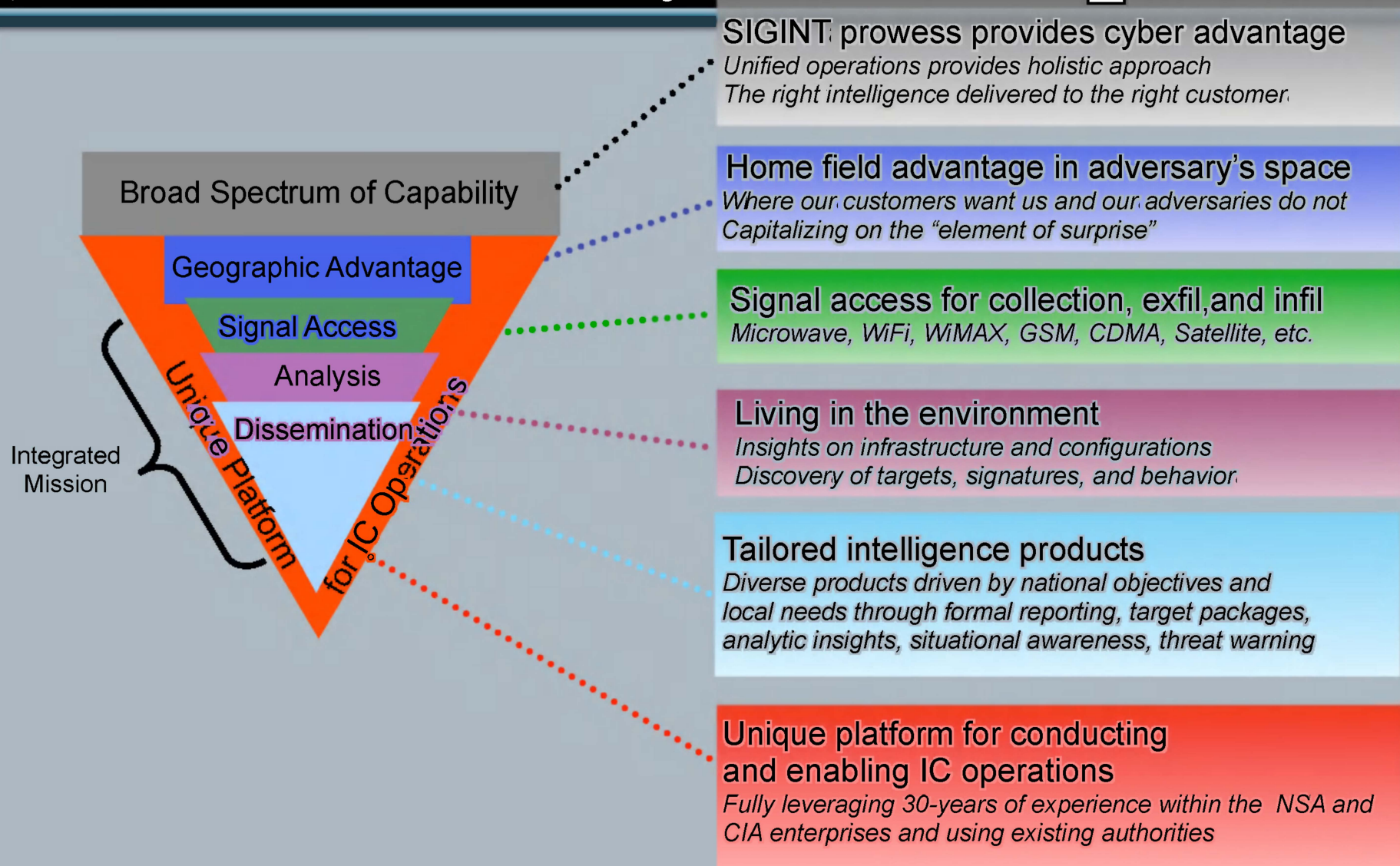
- Main Goal:
  - To evaluate SCS VPN access and analysis to determine better methods of identifying and exploiting networks of interest.
- Two Focuses:
  - What can we do with VPN data that is already ingested into the system?
    - Find better methods of reporting VPN stats and exploitation determinations from CES back to SSC and site.
  - Are there methods to better identify and survey VPN’s to provide CES the data they need?
    - Can we leverage MIRROR, DARKQUEST, PANOPLY survey information to quickly identify and report the presence of VPN’s in surveyed signals?
    - Can we use BIRDWATCHER or other means to automatically resurvey for key exchanges and obtain paired collect?

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# The SCS Cyber Advantage





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# SCS Opportunities

