



Special Collection Service

Pacific SIGDEV Conference
March 2011

The Overall Classification of this Briefing:

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

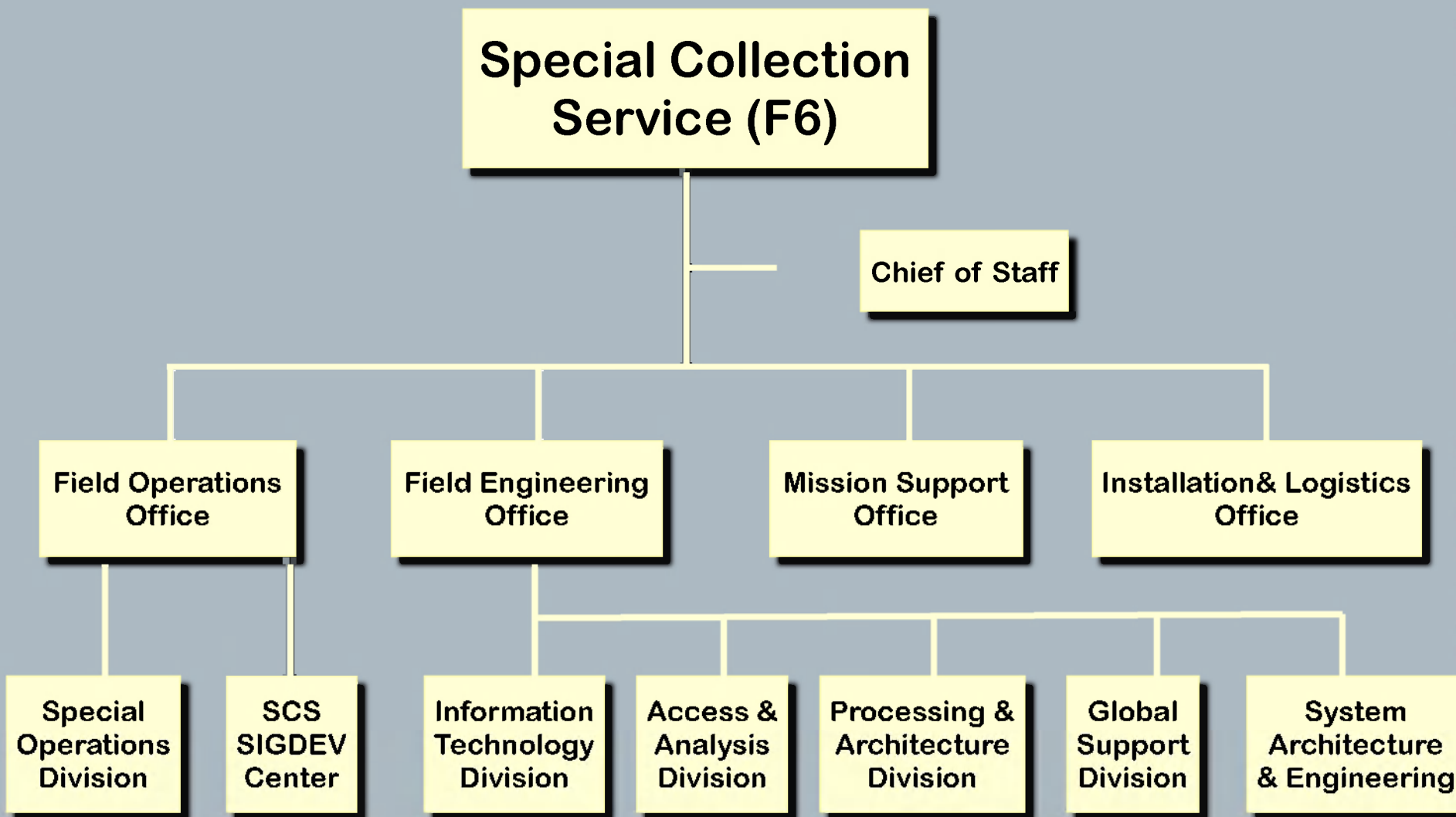
Derived From: NSA/CSSM 1-52
Dated: 20070108
Declassify On: 20360301



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SCS Organization



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Strategic Partnerships

**SIGINT Enabling
HUMINT**

**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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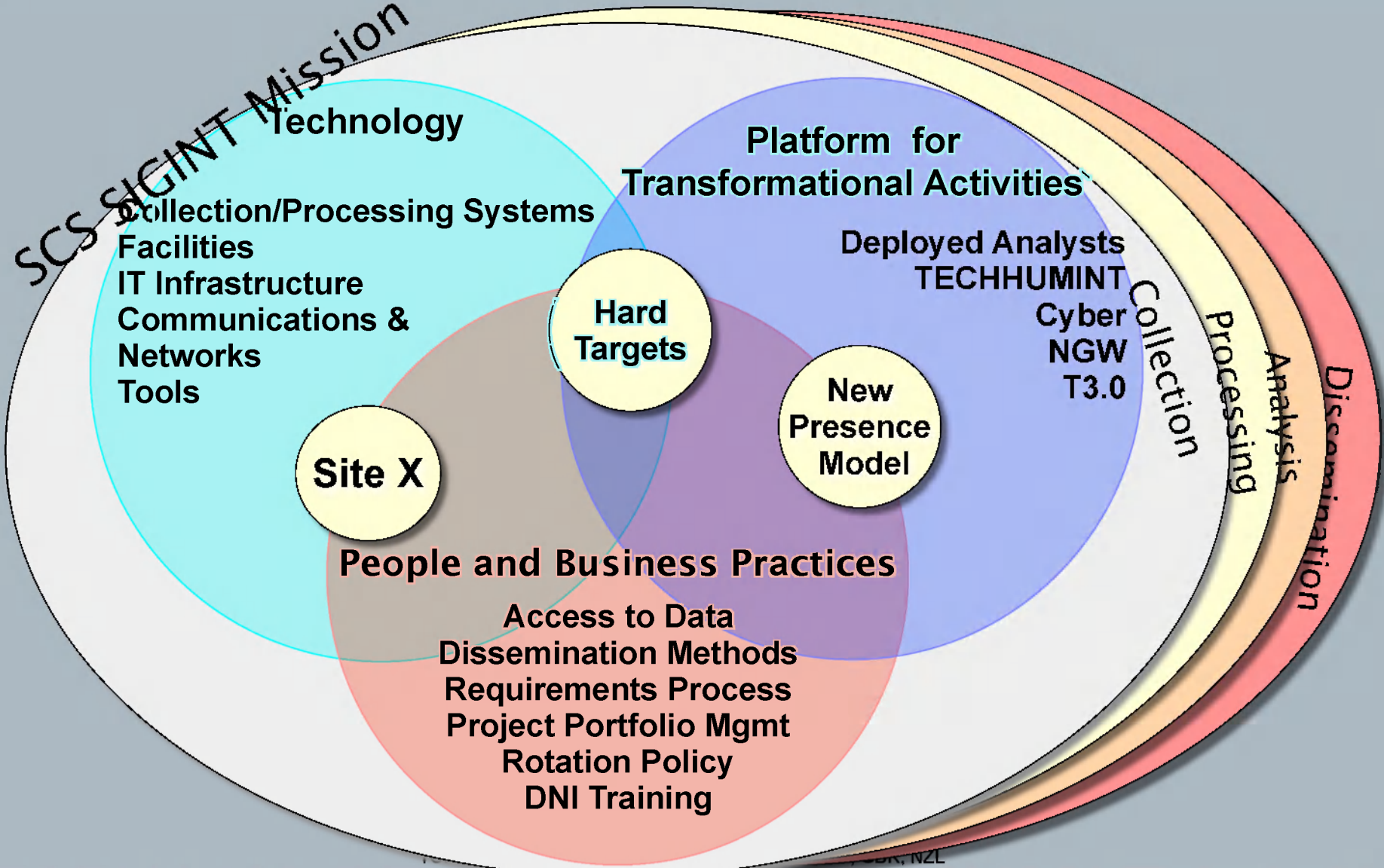


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SCS Modernization

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-1n.f5.f.usa/

INTERQUAKE 4

DYNAMIC PAGE - HIGHEST POSSIBLE CLASSIFICATION IS TOP SECRET//SI//ECI//ORCON//NOFORN

INTERQUAKE
 1150-1001
 4.0.4.1
 3FAF0N.V

Return

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: Sorting: Export: -Select-

		Freq (MHz)	Site	Case	Signal Name	BR (Mbps)	Mod	Payload	SNR	BER	A _v	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	120QAM		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		24.192	128QAM		11		83	0	V	33
		10757.75	US-968U	WU XX		24.192	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	120QAM	STM1	40		226	0	H	30
		7075	US-968U	WU XX		23.926	120QAM		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		9		233	0	V	
		7435	US-968U	WU XX		12.376	64QAM		6		81	-1	H	18
		4548.5	US-968U	WU XX		31.101	610QAM		13		233	5	H	44
		7909.3	US-968U	WU1VY		24.981	64QAM		7		254	0	H	39

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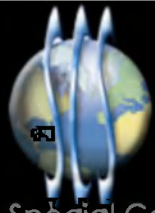
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CES/SSC/AAD VPN “Surge”

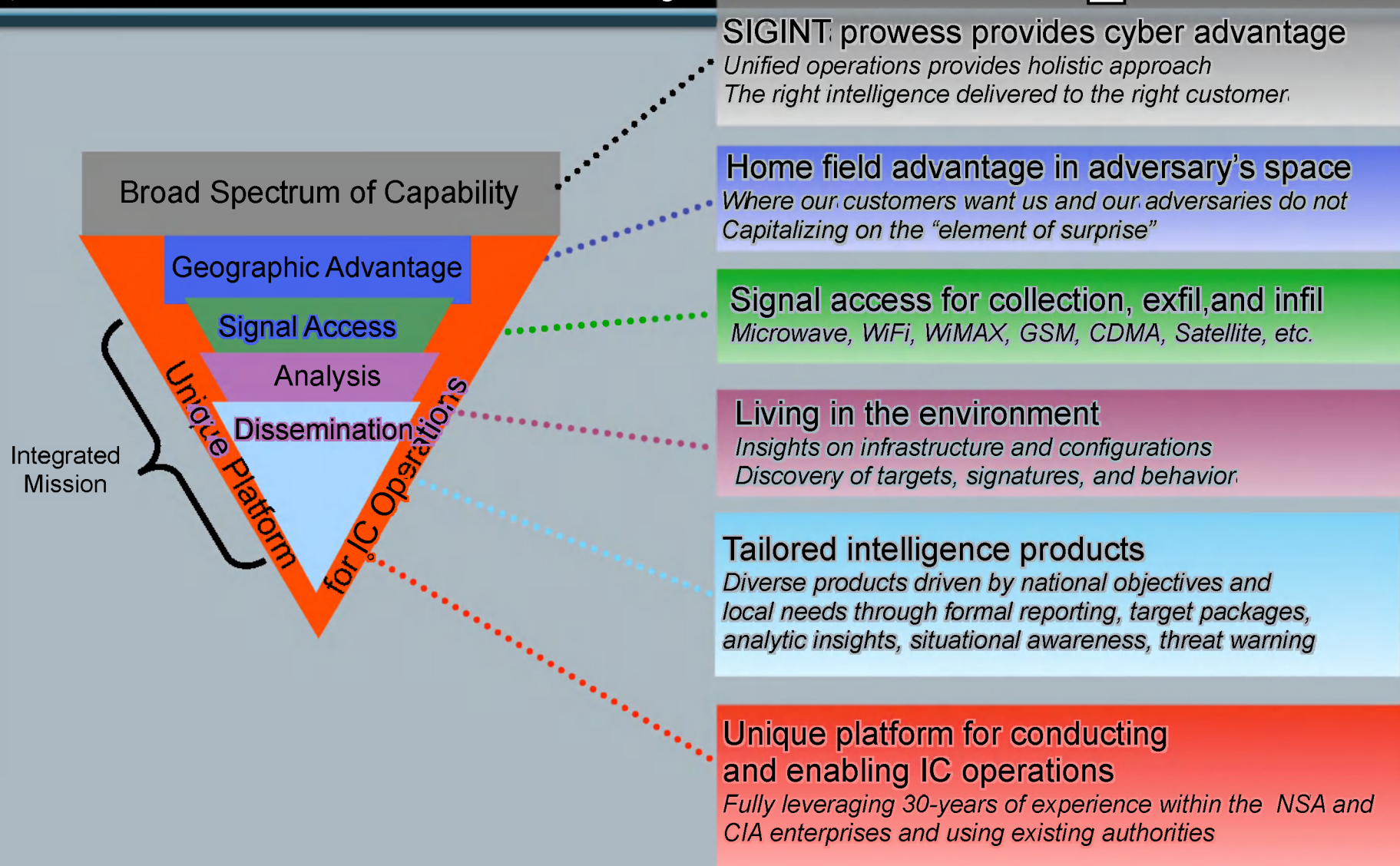
- Main Goal:
 - To evaluate SCS VPN access and analysis to determine better methods of identifying and exploiting networks of interest.
- Two Focuses:
 - What can we do with VPN data that is already ingested into the system?
 - Find better methods of reporting VPN stats and exploitation determinations 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

