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# Documentation: The Snowden files

19. juni 2014 kl. 01:30 | Kristian Jensen | Kommentarer (0)

## Keith Alexander's talking points

Former NSA Director Keith Alexander's talking points for a 2012 strategic meeting between the NSA and the Danish Defense Intelligence Service (DDIS), in which he mentions the »NSA-DDIS partnership working cable access«.

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## Black Budget

An excerpt from the US Intelligence »Black Budget« detailing the »Foreign Partner Access Project«.

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## RAMPART-A Project Overview

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## Special Source Operations

Special Source Operations (SSO) Overview presenting the RAMPART-A program

## Special Source Operation extra slides

Three extra SSO slides with details on RAMPART-A sites, collection and tasking

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Anbefal artikel

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**Redaktør:** Nikolai Thyssen

**I redaktionen:** Kristian Jensen, Johannes Wehner, Morten Wulff, Sebastian Gjerding

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## DIR Opening Remarks Guidance for DP1

The DIR typically gives Opening Remarks for the following three conferences (NORUSA, DENUSA, and SWEDUSA) but he may be asked to do others in which case the same guidance should be followed.

DIR Staff has given us guidelines to follow for the Opening Remarks Talking Points. Note that we had wanted to simply include these Opening Remarks Talking Points in our Exec Sum for the visit, but DIR Staff told us they needed a separate document for the Opening Remarks and it needed to be in a specific format. That format is below (example provided is from DENUSA last year).

The Remarks should outline things that have been accomplished since the last conference, as well as things we want to get accomplished in this conference/the upcoming year. We should also add anything else FAD wants DIRNSA to convey.

Once the Opening Remarks Talking Points are approved by appropriate DP1 leadership (at least DP1 Office Chief level), the CDO should provide the Opening Remarks in the attached format to the following aliases at least 3 business days in advance of the event:

TO: DL DIRSPEAK

CC: D DIR Staff, DP1 Office Chief/Deputy

Per guidance from DIR Staff, it is the responsibility of the folks on the DIRCOMMS alias to print out the remarks on 5X8 cards and provide to the DIR staff.

(Updated on 3/4/2013)

**DENUSA**

**6-8 June**

**(S//REL TO USA, DNK) Thank the Danes for their wonderful hospitality they extended to you and your delegation during your March visit to Copenhagen.**

**(TS//SI//REL TO USA, DNK)** [REDACTED]

**(S//REL TO USA, DNK)** [REDACTED]

**(TS//SI//REL TO USA, DNK) Emphasize NSA's commitment to the special access and assisting DDIS in managing the access.**

**Remind the Danes of the long NSA-DDIS partnership working cable access with.**

**Note that we look forward to new areas of cooperation.**

**(TS//REL TO USA, DNK) Highlight that NSA is willing to engage with DDIS on cyber defense.**

**We believe that furthering our cooperation will be mutually beneficial to our two nations.**

**(TS//SI//REL TO USA, DNK)** [REDACTED]

[REDACTED]

**(S//REL TO USA, DNK) Stress that Denmark is a very trusted, capable party.**

**We value that partnership and we are pleased to be moving forward with DDIS on critical target areas.**

**We believe that furthering our cooperation will be mutually beneficial to our two nations.**

**(U) SPECIAL SOURCE ACCESS  
(U) FOREIGN PARTNER ACCESS**

This Exhibit is SECRET//NOFORN									
	FY 2011 <sup>1</sup> Actual	FY 2012 Enacted			FY 2013 Request			FY 2012 — FY 2013	
		Base	OCO	Total	Base	OCO	Total	Change	% Change
<b>Funding (\$M)</b>	91.0	75.1	—	75.1	52.6	4.0	56.6	-18.5	-25
<b>Civilian FTE</b>	33	57	—	57	57	—	57	—	—
<b>Civilian Positions</b>	33	57	—	57	57	—	57	—	—
<b>Military Positions</b>	—	—	—	—	—	—	—	—	—

<sup>1</sup>Includes enacted OCO funding. Totals may not add due to rounding.

**(U) Project Description**

(U//FOUO) The Foreign Partner Access Project contains two major programs - RAMPART-A and WINDSTOP.

(TS//SI//NF) The RAMPART-A program provides collection against long-haul international leased communications through special access initiatives with world-wide SIGINT partnerships. RAMPART-A employs TURMOIL capabilities, provided by the Net-Centric Capabilities (NCC) Project in the Mission Processing & Exploitation Expenditure Center. Additional NCC efforts will address the processing challenges of the volume, velocity, and variety of data present at the RAMPART-A sites. RAMPART-A has access to over 3 Terabits per second of data streaming world-wide and encompasses all communication technologies such as voice, fax, telex, modem, e-mail internet chat, Virtual Private Network (VPN), Voice over IP (VoIP), and voice call records.

(TS//SI//NF) The WINDSTOP program focuses on second party relationships. WINDSTOP currently partners with all the second parties, but primarily the United Kingdom (UK), to develop a well-integrated, over-arching architecture to utilize unprecedented access to communications into and out of Europe and the Middle East. Collection capabilities include Digital Network Intelligence processing and selection capabilities for e-mail, web, Internet chat, and VoIP.

(TS//SI//REL TO USA, FVEY) This Project supports the Comprehensive National Cybersecurity Initiative (CNCI) by enhancing capabilities that identify emerging threats and vulnerabilities to US communication systems. This Project contains the RAMPART-A Modernization, RAMPART-A Operations and WINDSTOP Sub-Projects.

(U) Base resources in this project are used to:

- (TS//SI//NF) Provide annual upgrades to system capabilities at existing Foreign Partner collection sites to keep pace with the rapidly changing telecommunications field.
- (TS//SI//REL TO USA, FVEY) Provide access and collection against international high-priority target  
[REDACTED]  
[REDACTED]  
[REDACTED]
- (S//SI//REL TO USA, FVEY) Support continuing requirements of infrastructure and communications improvements within the Foreign Partner collection sites to collect high speed Digital Network Intelligence, voice, fax, telex, e-mail, internet chat, VPN, and VoIP communications.

- (TS//SI//REL TO USA, FVEY) Support CNCI by ensuring that data stores are produced, common collection system analytic techniques are developed, adequate infrastructure is built for increased processing, and enhanced collection tasks in support of cyber defense are implemented to meet the operational needs and satisfy agreements for collection and processing at selected Foreign Partner collection sites using TURMOIL collection systems.

(U) There are no new activities in this Project for FY 2013.

(U) OCO resources in this project are used to:

- (TS//SI//NF) Provide contracted services and equipment for upgrades on a processing suite at a RAMPART-A site. The upgrade will exploit the latest technologies present in [REDACTED] networks and consists of the design, procurement, integration, testing and deployment of advanced processing capabilities hosted on the latest server technologies.

(U) The CCP expects this Project to accomplish the following in FY 2013:

- (S//SI//REL TO USA, FVEY) Expand collection and processing capabilities resulting from joint collaboration efforts and shared access initiatives to leverage the highly lucrative NSA/CSS Second Party access and to exploit high speed Digital Network Intelligence.
- (TS//SI//REL TO USA, FVEY ) Complete the deployment of NCC Increment 2 and 3 defensive software applications in support of the CNCI interconnected network of sensors.
- (S//SI//REL TO USA, FVEY) Support and expand the TURMOIL-based foreign site processing systems in order to exploit high-speed Digital Network Intelligence. Support the continuing requirements of infrastructure and communications improvements to RAMPART-A and WINDSTOP that will provide exploitation of high speed Digital Network Intelligence.
- (TS//SI//NF) Integrate Third Party releasable Dialed Number Recognition and Digital Network Intelligence collection systems upgrades, developed by NSA/CSS, within the RAMPART-A site architecture. The new capabilities will enable increased collection of communications available at each RAMPART-A site.
- (TS//SI//REL TO USA, FVEY) Upgrade collection capabilities at each site to increase intelligence production.
- (TS//SI//NF) Develop additional access to communications links at each RAMPART-A site. This additional access will increase the amount of international network coverage available for intelligence exploitation.
- (TS//SI//NF) Develop one new Foreign Partner relationship that will enable NSA/CSS to access international communications of high interest for intelligence exploitation.
- (TS//SI//NF) Deploy, operate, or refresh systems to implement key CNCI goals against increasingly complex communication signals at five RAMPART-A sites and two WINDSTOP sites.

**(U) Changes From FY 2012 to FY 2013:**

(S//NF) **WINDSTOP: -\$17.8 million (-\$17.8 Base).** The aggregate decrease is the result of:

- (U) Increases:
  - (S//SI//NF) \$1.0 million to sustain the current level of operations and accesses with its Second-Party partners.
  - (S//SI//NF) \$0.9 million for increased sustainment cost of current operations and Second-Party relationships.

- (S//NF) \$0.1 million in civilian pay and benefits.
- (U) Decreases:
  - (S//SI//NF) \$19.1 million reduces NSA/CSS' ability to deliver shared access opportunities at the scale originally envisioned.
  - (TS//SI//NF) \$0.7 million for deficit reduction and reduces NSA/CSS' ability to expand tasking of new high priority targets [REDACTED] at 2nd party UK accesses, thus limiting NSA/CSS' flexibility to optimize the current set of tasked signals.

**(S//NF) RAMPART - A Modernization: -\$0.5 million (-\$0.5 Base).** The aggregate decrease is the result of:

- (U) Increases:
  - (S//NF) \$0.1 million in civilian pay and benefits.
- (U) Decreases:
  - (S//SI//NF) \$0.6 million in equipment purchased for the sustainment of critical RAMPART-A foreign partner sites.

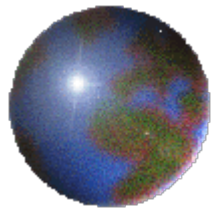
**(S//NF) RAMPART - A Operations: -\$0.3 million (-\$4.3 Base, +\$4 OCO).** The aggregate decrease is the result of:

- (U) Increases:
  - (TS//SI//NF) \$4.0 million Overseas Contingency Operations (OCO) provides an upgrade to the processing suite at one RAMPART-A's foreign partner site, which will exploit the latest technologies present in [REDACTED] networks. This upgrade consists of the design, procurement, integration, testing and deployment of advanced processing capabilities hosted on the latest server technology.
  - (S//SI//NF) \$1.3 million reflects the refreshment of collection equipment at one foreign partner site.
  - (S//NF) \$0.3 million in civilian pay and benefits.
- (U) Decreases:
  - (S//SI//NF) \$5.9 million reflects the planned completion of additional site preparations for the deployment of TURMOIL systems.



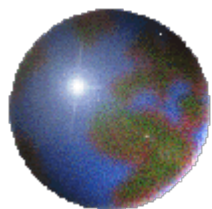
Foreign Partner Access Project Budget Chart FY 2013 Budget Request by Appropriation Account This Exhibit is SECRET//NOFORN			Funds — Dollars in Millions		
Subproject	Description	Resourcing	FY 2011	FY 2012	FY 2013
<i>Operation and Maintenance, Defense-Wide</i>		<i>Funds</i>	<i>73.96</i>	<i>69.12</i>	<i>51.17</i>
		<i>Positions</i>	<i>33</i>	<i>57</i>	<i>57</i>
RAMPART - A Modernization	Pay and Benefits	Base	2.18	2.45	2.53
		Positions	16	18	18
RAMPART - A Operations	Communications and Utilities	Base	2.37	2.24	0.65
	Contract Services	Base	38.88	25.26	22.31
	Equipment	Base	13.60	5.45	5.47
		OCO	—	—	4.00
	Pay and Benefits	Base	1.81	4.71	4.98
	Rental Payments	Base	—	0.34	0.34
	Supplies and Materials	Base	<0.01	0.11	0.10
	Travel and Transportation	Base	0.68	0.39	0.39
	Positions	15	36	36	
WINDSTOP	Contract Services	Base	13.84	25.85	9.90
	Equipment	Base	0.26	1.91	—
	Pay and Benefits	Base	0.27	0.41	0.42
	Travel and Transportation	Base	0.07	—	0.08
		Positions	2	3	3
<i>Procurement, Defense-Wide</i>		<i>Funds</i>	<i>17.01</i>	<i>5.99</i>	<i>5.42</i>
RAMPART - A Modernization	Contract Services	Base	0.02	—	—
	Equipment	Base	17.00	5.99	5.42

Totals may not add due to rounding.



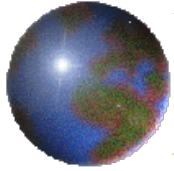
# *RAMPART-A* *Project Overview*

1 October 2010



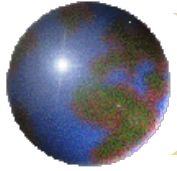
*This briefing is classified*  
***TOP SECRET//COMINT//NOFORN***

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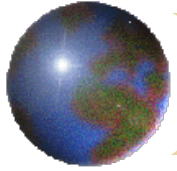
# *RAMPART-A Overview*

- ⊕ Covername for NSA's unconventional special access program
  - ⊗ to gain access to high-capacity international fiber-optic cables that transit at major congestion points around the world.
  
- ⊕ Program started in 1992 with the establishment of the National Fiber Optic Program Fund
  - ⊗ Four initial global congestion points identified
  - ⊗ Extended Bi-lat partnerships w/FAD to new compartmented efforts
  
- ⊕ General agreements negotiated:
  - ⊗ Foreign Partners provide access to cables and host US equipment
  - ⊗ US provides equipment for transport, processing, & analysis
  - ⊗ No US collection by Partner and No Host Country collection by US
  - ⊗ Shared tasking & collection
  
- ⊕ Today....
  - ⊗ 5 on-going relationships
  - ⊗ 2 cooperative relationship (w/ RAM-T)
  - ⊗ 2 emerging relationships

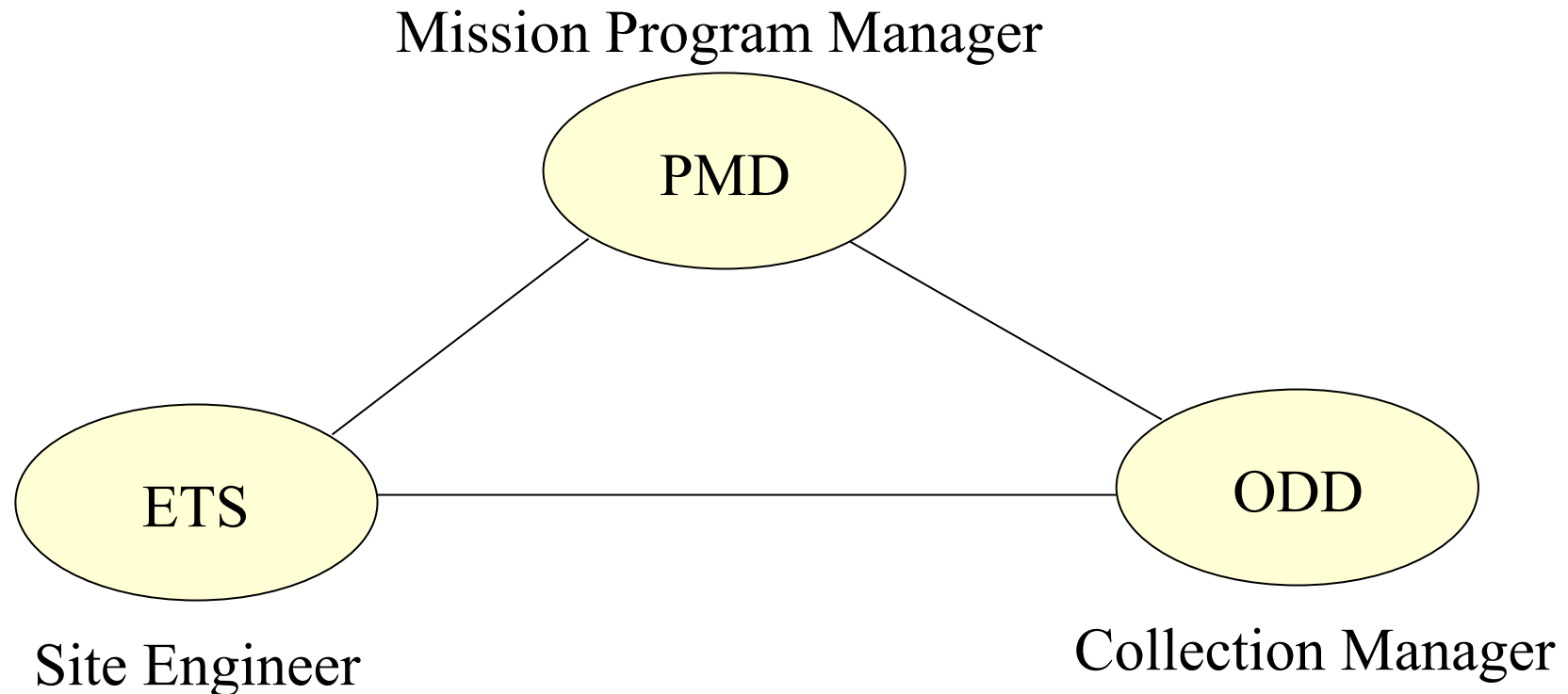


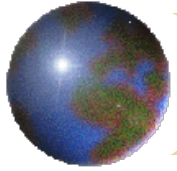
## *Project Description*

- ❖ (TS//SI) RAMPART-A's accesses target long-haul leased communications through international gateways. Circuit-Switched and Packet-Switch signals are enabled by foreign partners. Collection and Processing assets reside on foreign soil and traffic is exfilled back to NSA.
- ❖ (TS//SI) Access Types: International Gateway Switches; End-Point GSM Switches; Leased Internet Circuits; Internet Backbone Routers; Call Records.
- ❖ (S//SI) Every Country Code in the world is seen at one or more RAMPART-A collection accesses



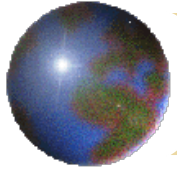
# *SSO/RAMPART-A Site Operations Model*





# *Engineering and Technical Services (ETS)*

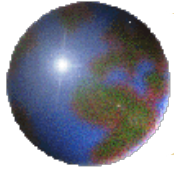
- ⊕ (U//FOUO) Integrate corporate and commercial solutions
  - ⊕ **In compliance with differing Third-party architectures**
- ⊕ (C) Test end-to-end integrated solutions to meet SSO & Third-party operational requirements
- ⊕ (C) Deploy and support new systems to Third-party controlled facilities



# *Operations and Discovery Division (ODD)*

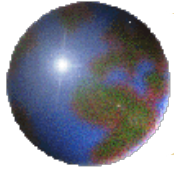
- ⊕ (C) Responsible for the tasking of the collection systems
- ⊕ (C) Coordinates system resources with the RAMPART-A partners
- ⊕ (C) Analyzes communications links to optimize collection resources
- ⊕ (C) Monitors the performance of the collection systems



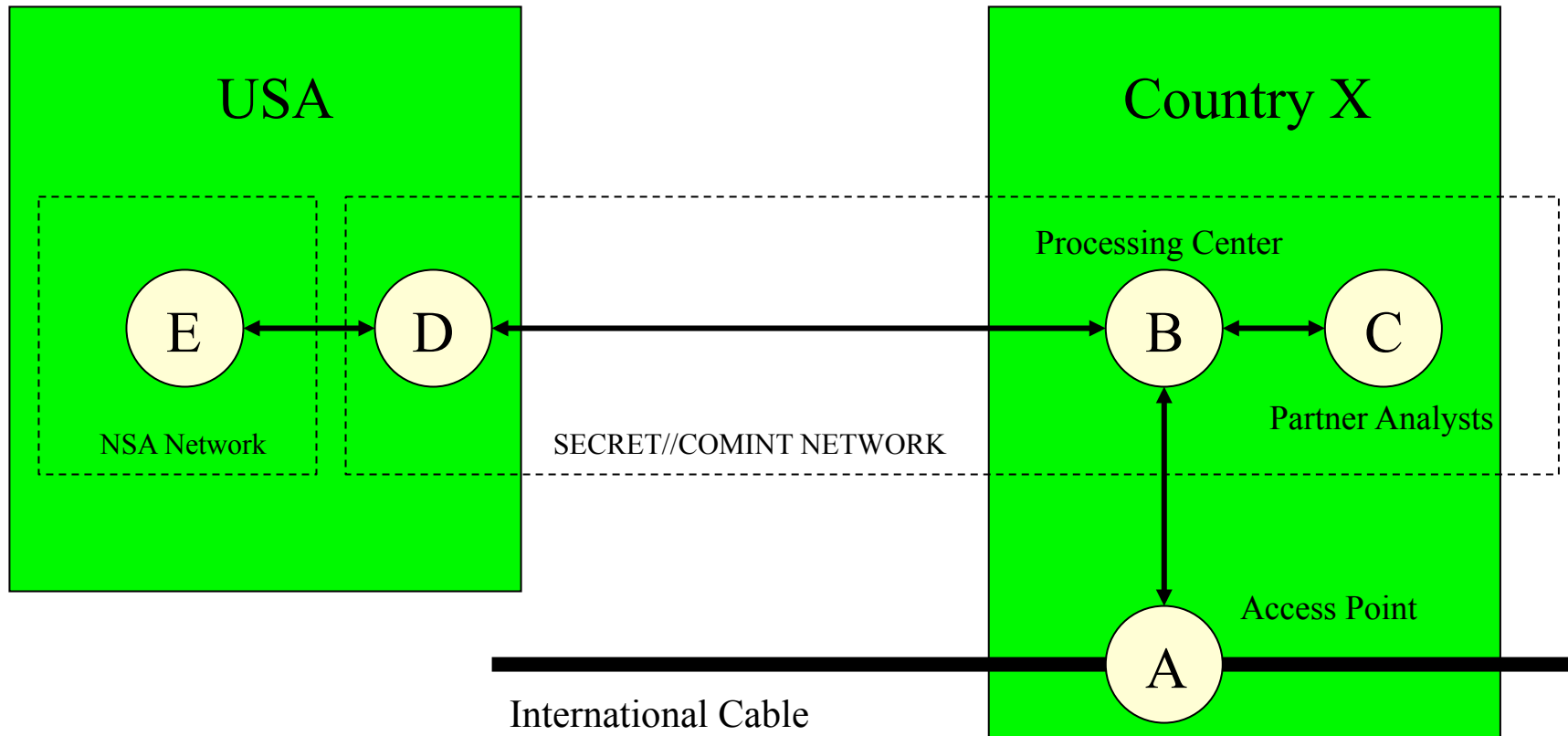


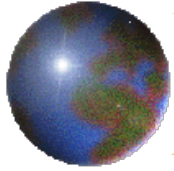
## *RAM- A Projects*

- ⊕ **US-3237/SMOKYSINK** (no 3<sup>rd</sup> party partner/joint RAM-T)
  - ⊕ **DNR & DNI**
- ⊕ **US-3127/AZUREPHOENIX**
  - ⊕ **DNR & DNI**
- ⊕ **US-3180/SPINNERET**
  - ⊕ **DNR & DNI**
- ⊕ **US-982/TRANQUIL – Retired June 2010**
  - ⊕ **DNR & DNI**
- ⊕ **US-3145/MOONLIGHTPATH**
  - ⊕ **DNI & DNR (September 2010)**
- ⊕ **US-3190/FIREBIRD**
  - ⊕ **DNR & DNI**
- ⊕ **US-3153/FALCONSTRIKE**
  - ⊕ **DNR & DNI**
- ⊕ **US-3178/DULCIMER**



# *RAMPART-A Typical Operation*





# *Sensitivity Factors*

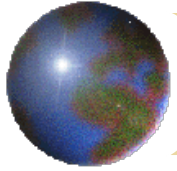
## ✦ **(TS//SI//NF//ECI) Compartmentalization**

### ✦ **REDHARVEST/RDV**

- Who is the partner
- Where is the access
- What is the access

## ✦ **(TS//SI//NF) Cover**

- ✦ Most RAMPART-A Third-party partners work the fiber projects under the cover of an overt Comsat effort

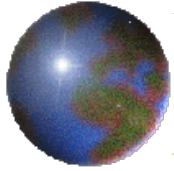


# Capabilities

## ⊕ (TS//SI) Capabilities:

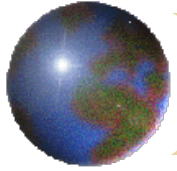
- ⊞ Automated, Continuous, High-Speed Survey of Circuit and Packet Switched Traffic
- ⊞ Packet-Switched selection & session collection
- ⊞ Dial Number Recognition of Circuit-Switched telephony

## ⊕ (S//SI) Deploy, and continually upgrade Circuit and Packet Switched collection architecture to all RAMPART-A sites



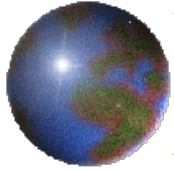
## *SIGINT Value Added*

- ❖ (TS//SI) Product Lines: All A&P product lines use collection from RAMPART-A for SIGINT reporting
- ❖ (TS//SI) Productivity/Intelligence gains: Over 9,000 SIGINT Product Reports written last year with ~49% being Single Source Reports
- ❖ (TS//SI) Targets within Accesses: International voice & fax telephony; Users of “web services” (e.g. –Port 80 e-mail; Chat; VoIP); GSM; Calling Card users



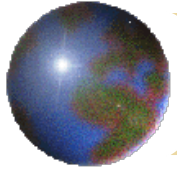
# *SMOKYSINK*

- ⊕ (TS//SI) SMOKYSINK is in "steady state" mode
- ⊕ (TS//SI) Continuous TU upgrades



# *AZUREPHOENIX*

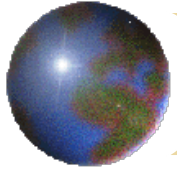
- ❖ (S) Site Physical Plant Upgrade  
2010-2011
- ❖ (TS//SI) TU deployment earliest Spring  
2012?
- ❖ (TS//SI) Partner working on additional  
accesses



## *SPINNERET*

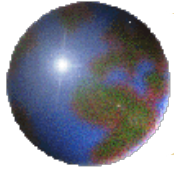
- ❖ (TS//SI) Cables upgrading with additional capacity – RAM-A deploying additional resources to accommodate
- ❖ (TS//SI) 60 Gbps LPT – October 2009
- ❖ (TS//SI) Additional 60 Gbps LPT scheduled for late 2010





## *MOONLIGHTPATH*

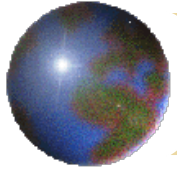
- ❖ (S) DNI system deployment – April 2009
- ❖ (TS//SI) New Cable access survey – May 2009
- ❖ (S) Site B rehab – Winter 2009
- ❖ (TS//SI) **New access in Sept. 2010**
- ❖ (TS//SI) New DNR/DNI system deployment – first phase (DNR) in May 2010. DNI to follow TU deployment schedule



# *TRANQUIL*

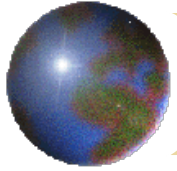
⊕ (TS//SI) TRANQUIL shut down in  
June, 2010





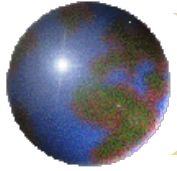
## *FIREBIRD*

- ❖ (TS//SI) Unique 3<sup>rd</sup> party enabled access – no NSA processing systems
- ❖ (TS//SI) Collection System IOC – February 2010
- ❖ (TS//SI) Working to establish an NSA to 3<sup>rd</sup> Party partner collection system translation



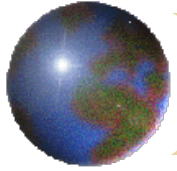
## *FLASHMARK*

- ❖ (TS//SI) Access same as FIREBIRD, but allowing US Collection Systems
- ❖ (TS//SI) Survey – March, 2010
- ❖ (TS//SI) FIREBIRD/FLASHMARK issue to be resolved this month.



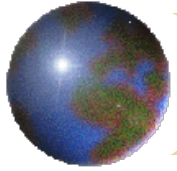
# *FALCONSTRIKE*

- ✦ (TS//SI) Survey – September 2009
- ✦ (TS//SI) Pilot System Deployment – January 2010
- ✦ (TS//SI) Secure Comms Deployment – January 2010
- ✦ (TS//SI) Two Track Future
  - Sustained system – mid 2012
  - Pilot System upgrade completed – December 2010



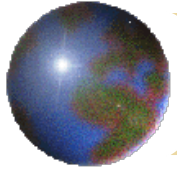
# *DULCIMER*

- ⊕ (TS//SI) Survey – November 2010
- ⊕ (TS//SI) Expected traffic should be large international internet pipes



# *CONDORSPEAK*

- ❖ (TS//SI) Discussions with Partner – October, 2010
  
- ❖ (TS//SI) Expected initial traffic will be metadata from target cable



## *In Summary*

- ❖ RAMPART-A has access to international communications from anywhere around the world
- ❖ SSO/RAMPART –A stands ready to support your intelligence gathering needs





TOP SECRET//COMINT//NOFORN

# Special Source Operations

*The Cryptologic Provider of  
Intelligence from Global High-Capacity  
Telecommunications Systems ♪*

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# Today's Cable Program

## Three Access Portfolios

### Foreign

RAMPART-A (3rd Party)

WINDSTOP (2nd Party)

### Corporate

BLARNEY - FISA

FAIRVIEW

STORMBREW

OAKSTAR

PRISM

FAA

### Unilateral

[REDACTED]

RAMPART-I/X

RAMPART-T (ClanSIG)

[REDACTED]

MYSTIC



UNCLASSIFIED//FOR OFFICIAL USE ONLY

# ***Got Fiber??***

## **WORLDWIDE UNDERSEA FIBEROPTIC ROUTES PLANNED AND IN PLACE**



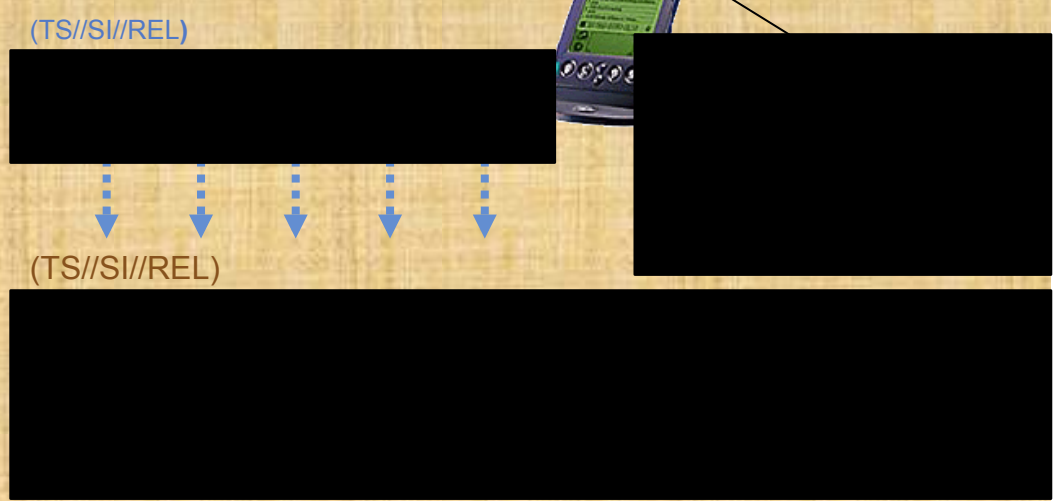
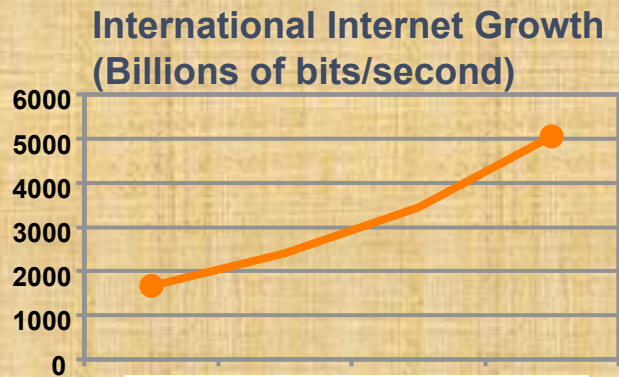
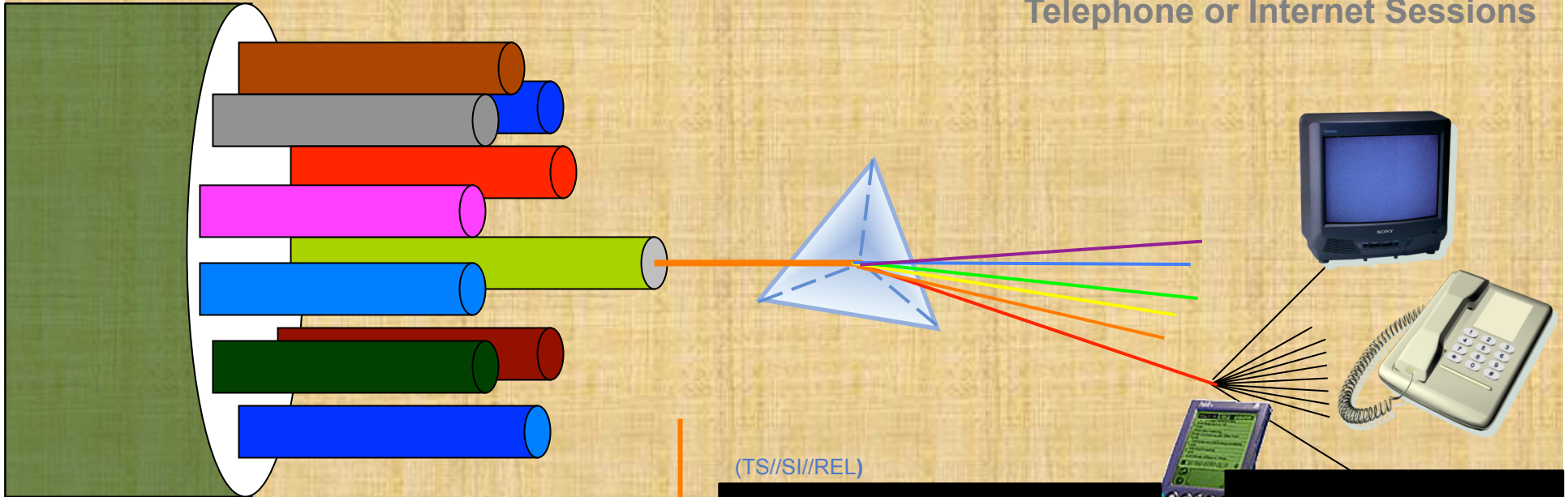
UNCLASSIFIED//FOR OFFICIAL USE ONLY



# Incredible Challenges... TOP SECRET//COMINT//NOFORN

## How To Find Target Communication on a Typical Fiber Optic Cable?

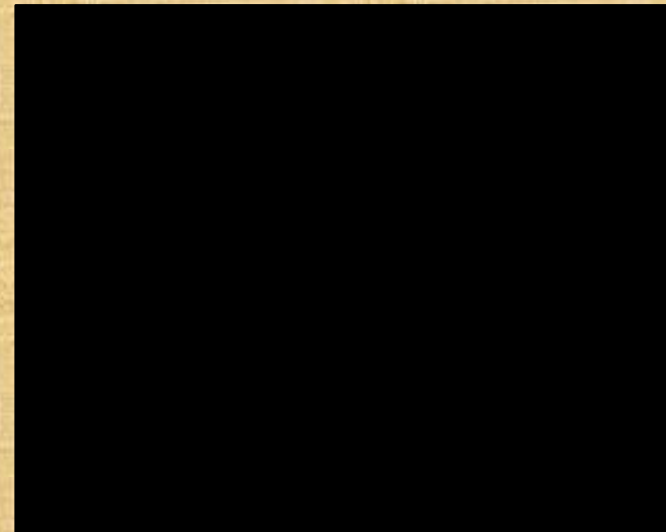
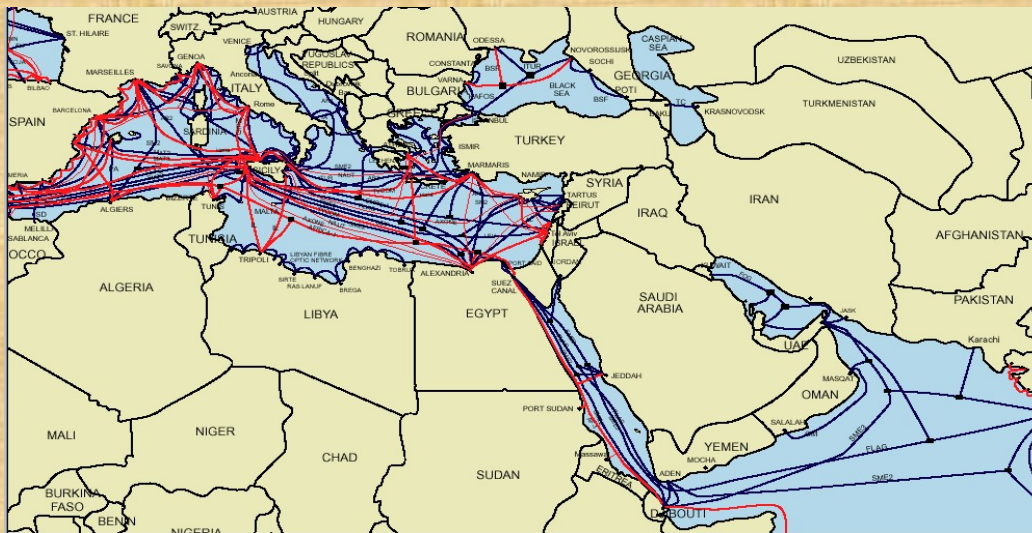
1 Cable **X** 12 Fibers **X** 64 wavelengths **X** 10 B bits/Sec = **100 Million**  
 Simultaneous Telephone or Internet Sessions





# SSO Foreign Programs

*Partnering with Foreign SIGINT partners to enable access to foreign intelligence*



*Partnerships developed jointly with Foreign Affairs Directorate*



# **RAMPART A**

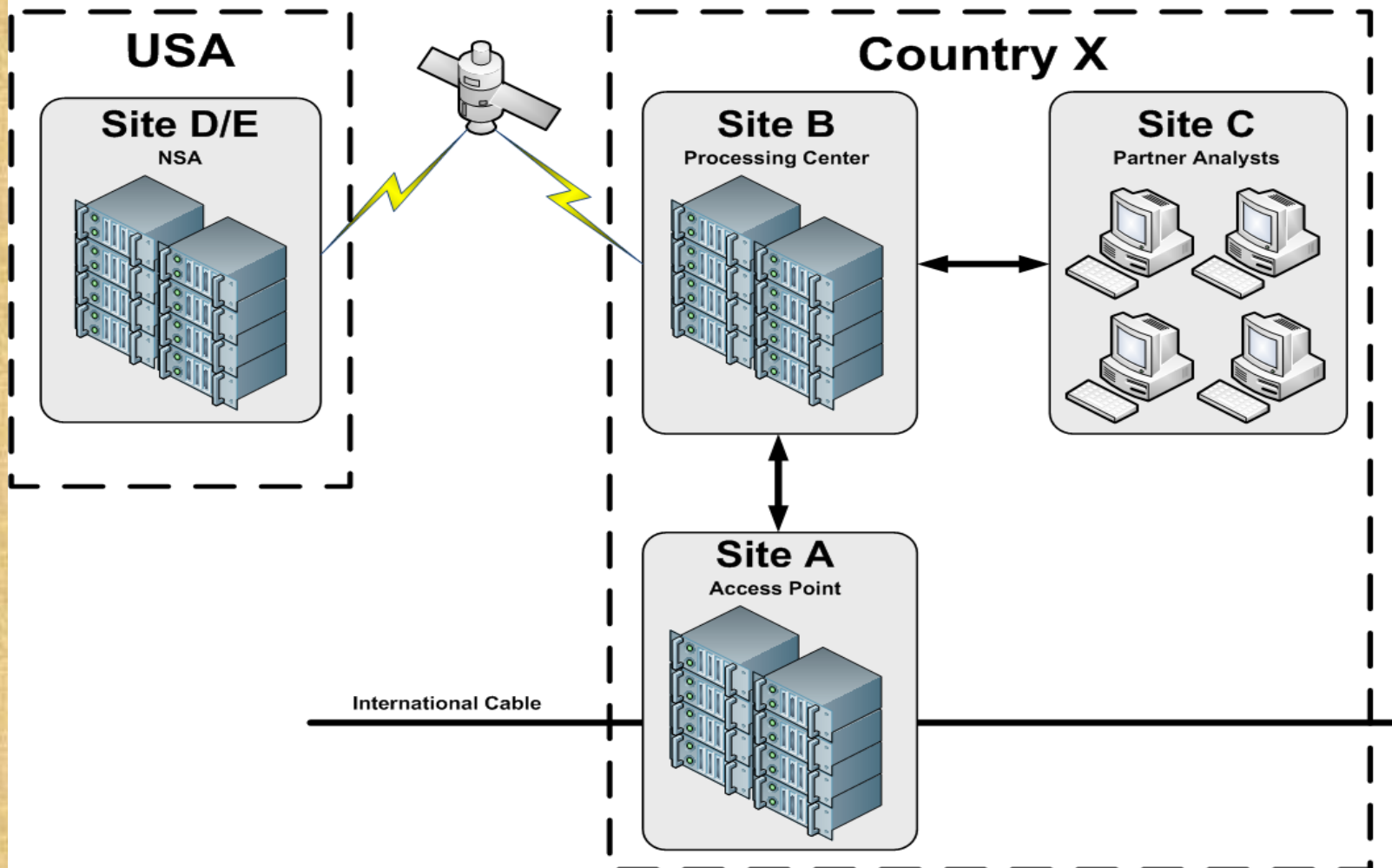
***(TS//SI//NF) Unconventional special access program leveraging Third Party partnerships:***

- High-capacity international fiber transiting major congestion points around the world***
- Foreign Partners provide access to cables and host U.S. equipment***
- U.S. provides equipment for transport, processing and analysis***
- No U.S. collection by Partner and No Host Country collection by U.S. – there ARE exceptions!***
- Shared tasking and collection***



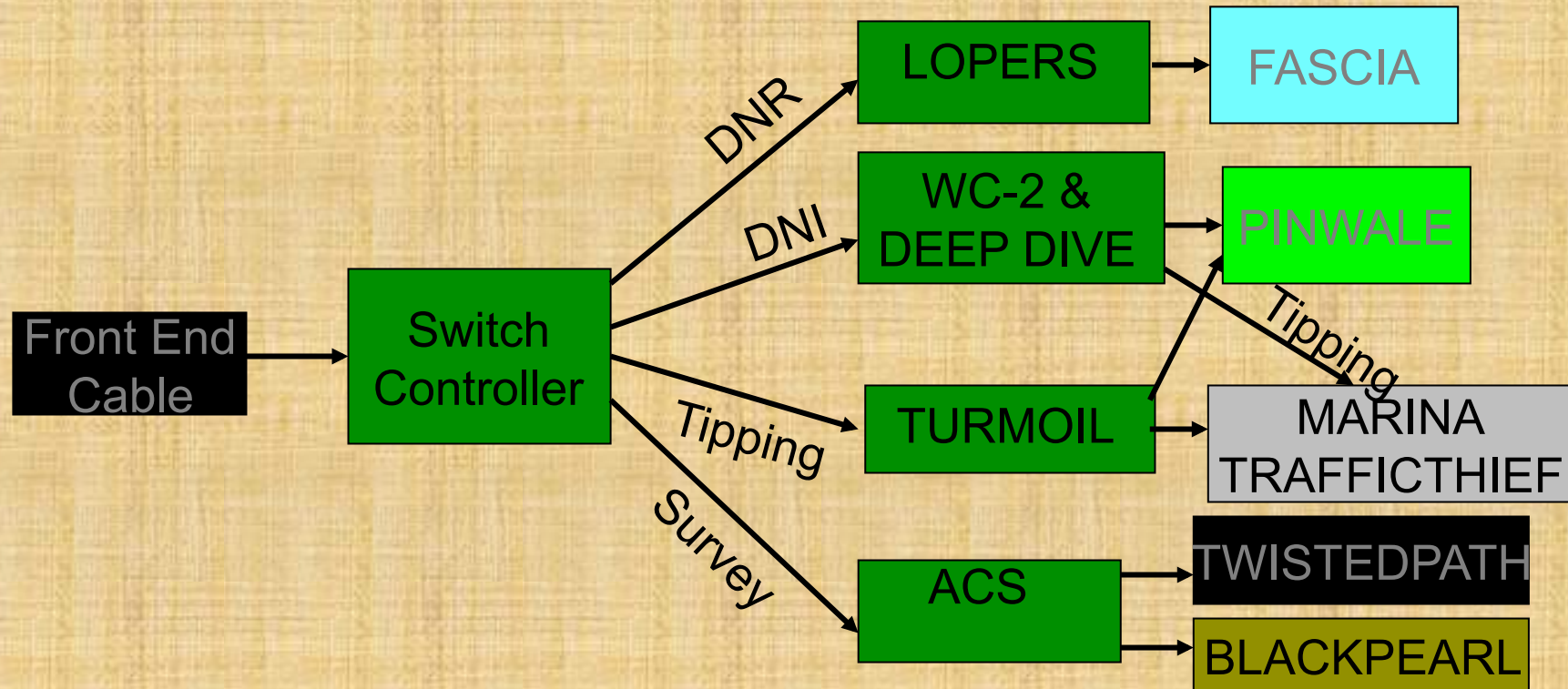
# Typical RAM-A Configuration

## RAMPART-A Typical Operation





# Cable to Database







# RAMPART A Sites

■ Five sites, 4 with a Trusted 3rd Party Partner\*\*

- US-3127/VH AZUREPHOENIX\*\* – 4mb BW/10gb/day
- US-3145/KX MOONLIGHTPATH\*\* - ~2mb BW/5gb/day
- US-3180/9C SPINNERET\*\* - ~45mb BW/35gb/day
- US-3237/KE SMOKYSINK (DNR,DNI) - ~45mb BW/30gb/day
- US-3190/21 FIREBIRD (DNR,DNI)\*\* - ~2mb BW

- Partners can view all DNR and DNI tasking.
- **Target descriptors only, not comments/expansions.**
- Partners can view DNI traffic via viewer tool.



# *The DNI Throttle*

- Implemented on the SMK Xkeyscore that does filtering/selection on Dec 2007; Oct 09 at SPIN; Feb 2010 SMK LPT
- Limits ALL Cadence categories to 1Gb/10k sessions/day at US-3180 and US-3237.
- Full take stored ONLY on Xkeyscores for ~3 days. Will have to query Xkeys for any DNI not forwarded to Pinwale.
- 1Gb/day may decrease as other RAM A sites increase their DNI take.



# RAM-A Tasking

- Ops trained/certified before using the system.
- All DNR/DNI tasking completed by Support Hub; RAM-A CM provides support as needed.
- All DNR/DNI tasking is reviewed and Partner offensive tasking deleted. Deletions based on our taboo/scrubber lists. Deletes not pushed back to TOPIs.
- TOPIs cannot review DNI categories for all sites unless cleared **REDHARVEST**.
- Use SMOKYSINK/RAMPART-A to review your categories