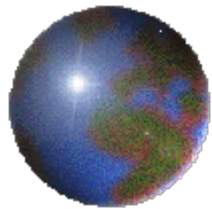


RAMPART-A

Project Overview

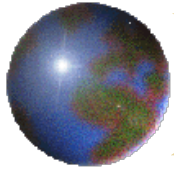
1 October 2010

TOP SECRET//COMINT//NOFORN



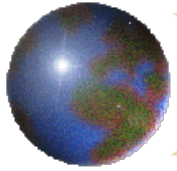
This briefing is classified
TOP SECRET//COMINT//NOFORN

TOP SECRET//COMINT//NOFORN



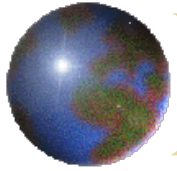
RAMPART-A Overview

- 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

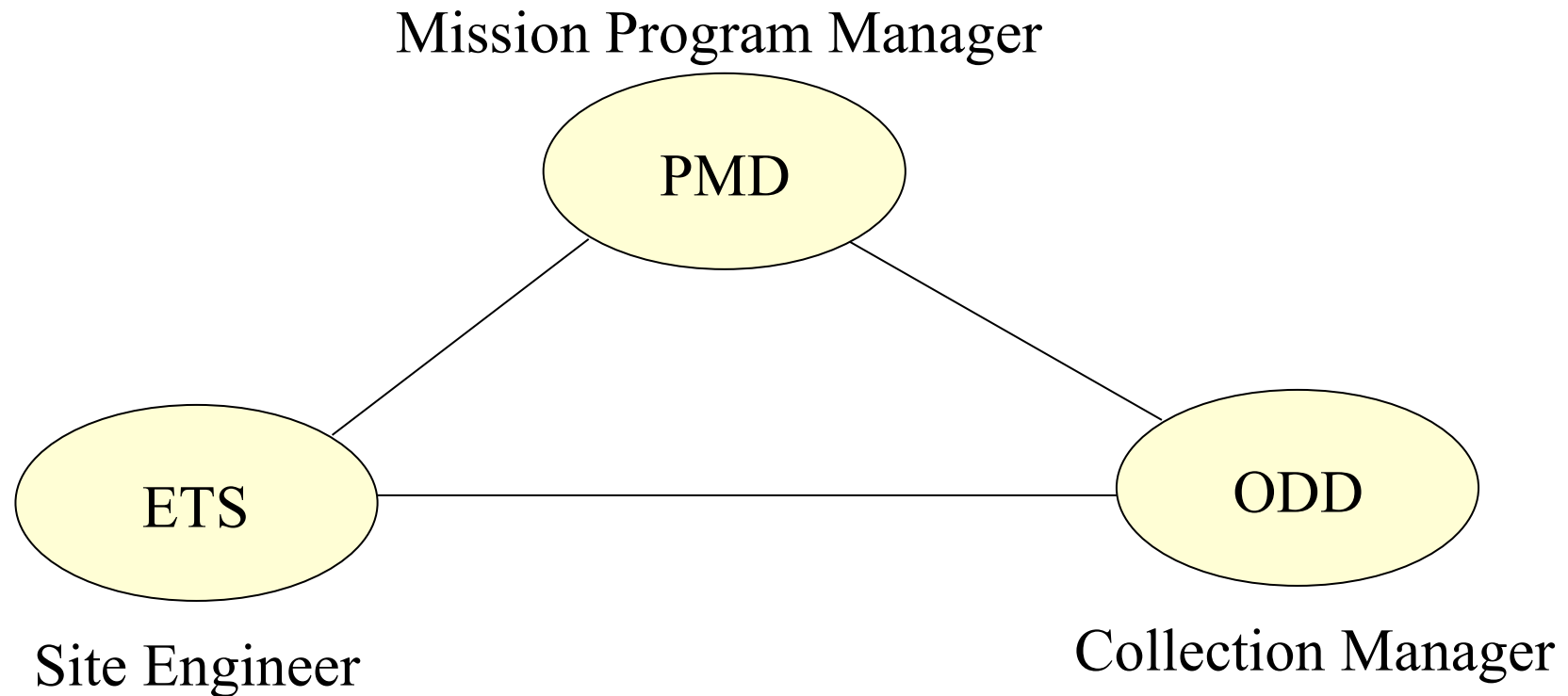


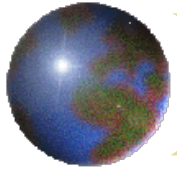
Project Description

- ❖ (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



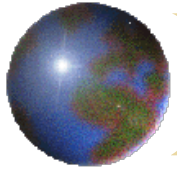
SSO/RAMPART-A Site Operations Model





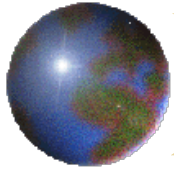
Engineering and Technical Services (ETS)

- (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



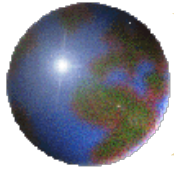
Operations and Discovery Division (ODD)

- (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

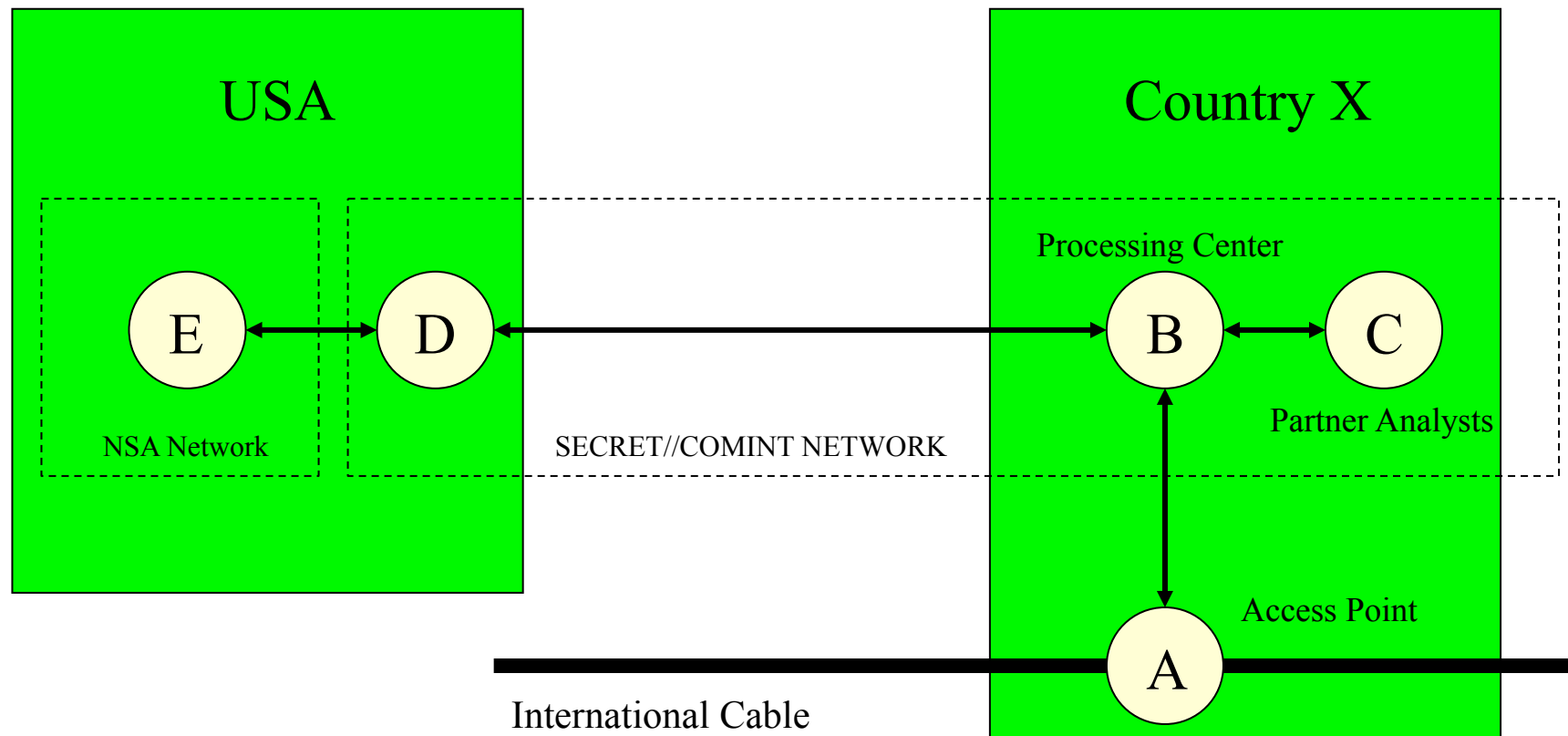


RAM- A Projects

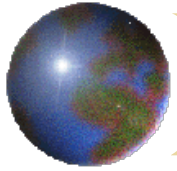
- **US-3237/SMOKYSINK** (no 3rd party partner/joint RAM-T)
 - **DNR & DNI**
- **US-3127/AZUREPHOENIX**
 - **DNR & DNI**
- **US-3180/SPINNERET**
 - **DNR & DNI**
- **US-982/TRANQUIL – Retired June 2010**
 - **DNR & DNI**
- **US-3145/MOONLIGHTPATH**
 - **DNI & DNR (September 2010)**
- **US-3190/FIREBIRD**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



RAMPART-A Typical Operation



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Sensitivity Factors

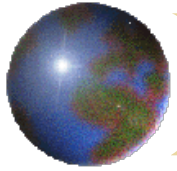
• **(TS//SI//NF//ECI) Compartmentalization**

■ **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

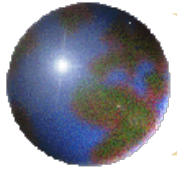


Capabilities

⊕ (TS//SI) Capabilities:

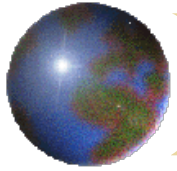
- ⊕ Automated, Continuous, High-Speed Survey of Circuit and Packet Switched Traffic
- ⊕ Packet-Switched selection & session collection
- ⊕ Dial Number Recognition of Circuit-Switched telephony

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



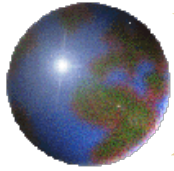
SIGINT Value Added

- ❖ (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



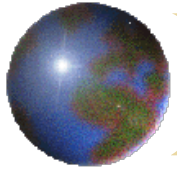
SMOKYSINK

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



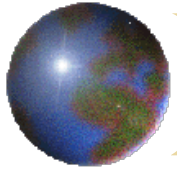
AZUREPHOENIX

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



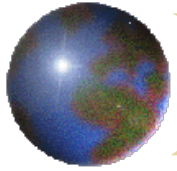
SPINNERET

- ❖ (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

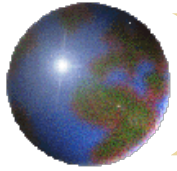
- ⊕ (S) DNI system deployment – April 2009
- ⊕ (TS//SI) New Cable access survey – May 2009
- ⊕ (S) Site B rehab – Winter 2009
- ⊕ (TS//SI) New access in Sept. 2010
- ⊕ (TS//SI) New DNR/DNI system deployment – first phase (DNR) in May 2010. DNI to follow TU deployment schedule



TRANQUIL

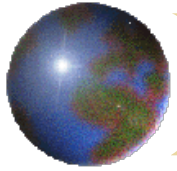
❖ (TS//SI) TRANQUIL shut down in
June, 2010





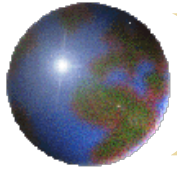
FIREBIRD

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



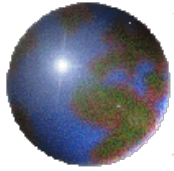
FLASHMARK

- ❖ (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.



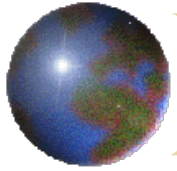
FALCONSTRIKE

- ⊕ (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



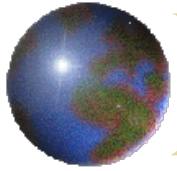
DULCIMER

- (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