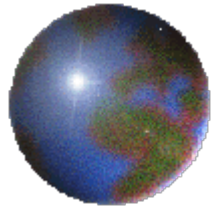


RAMPART-A *Project Overview*

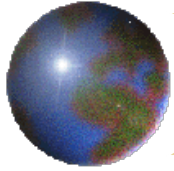
1 October 2010

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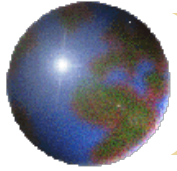
This briefing is classified
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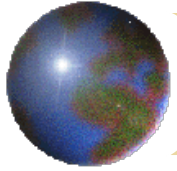
RAMPART-A Overview

- ✚ 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

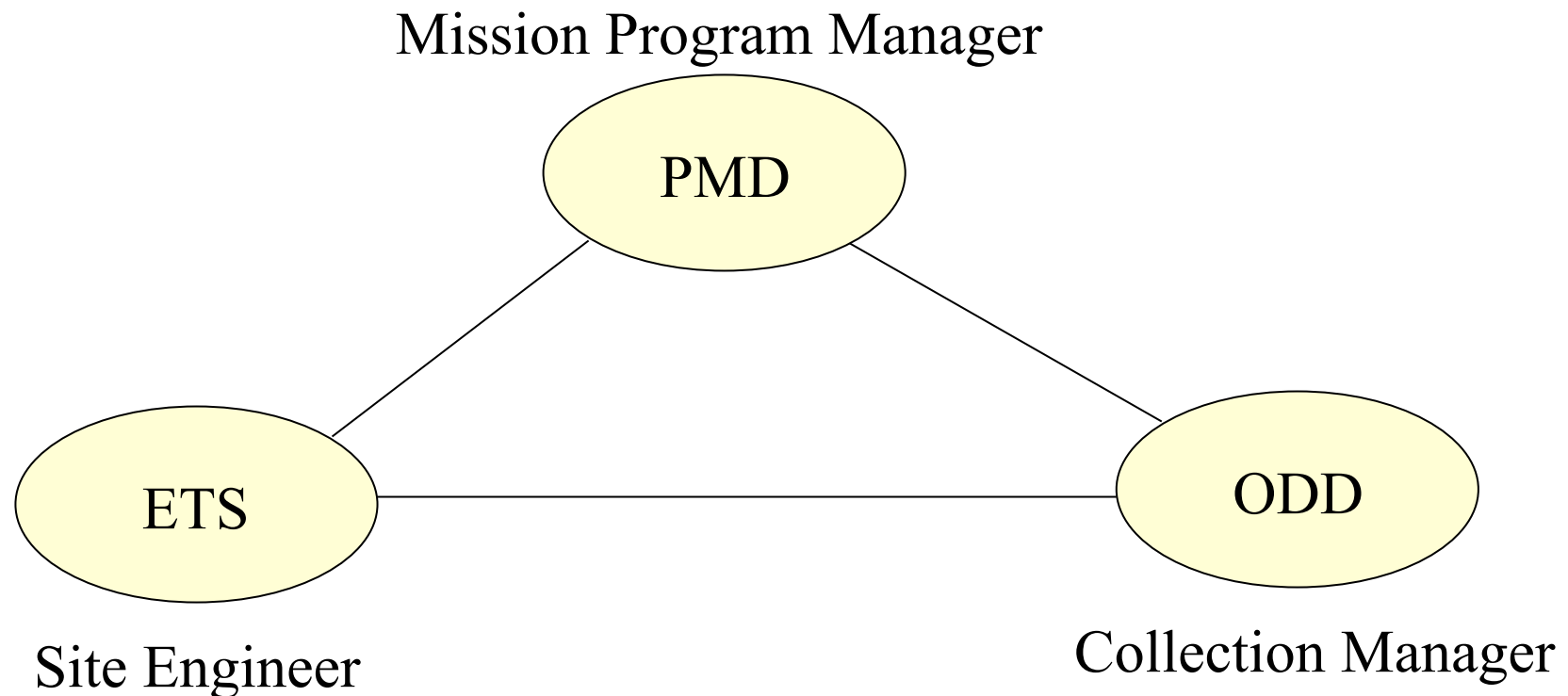


Project Description

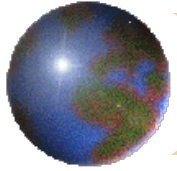
- ❖ (TS//SI) RAMPART-A's accesses target long-haul leased communications through international gateways. Circuit-Switched and Packet-Switch signals are enabled by foreign partners. Collection and Processing assets reside on foreign soil and traffic is exfiltrated back to NSA.
- ❖ (TS//SI) Access Types: 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

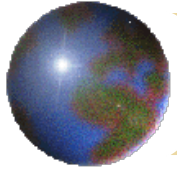


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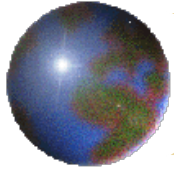
Engineering and Technical Services (ETS)

- ⊕ (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



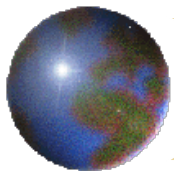
Operations and Discovery Division (ODD)

- ✚ (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

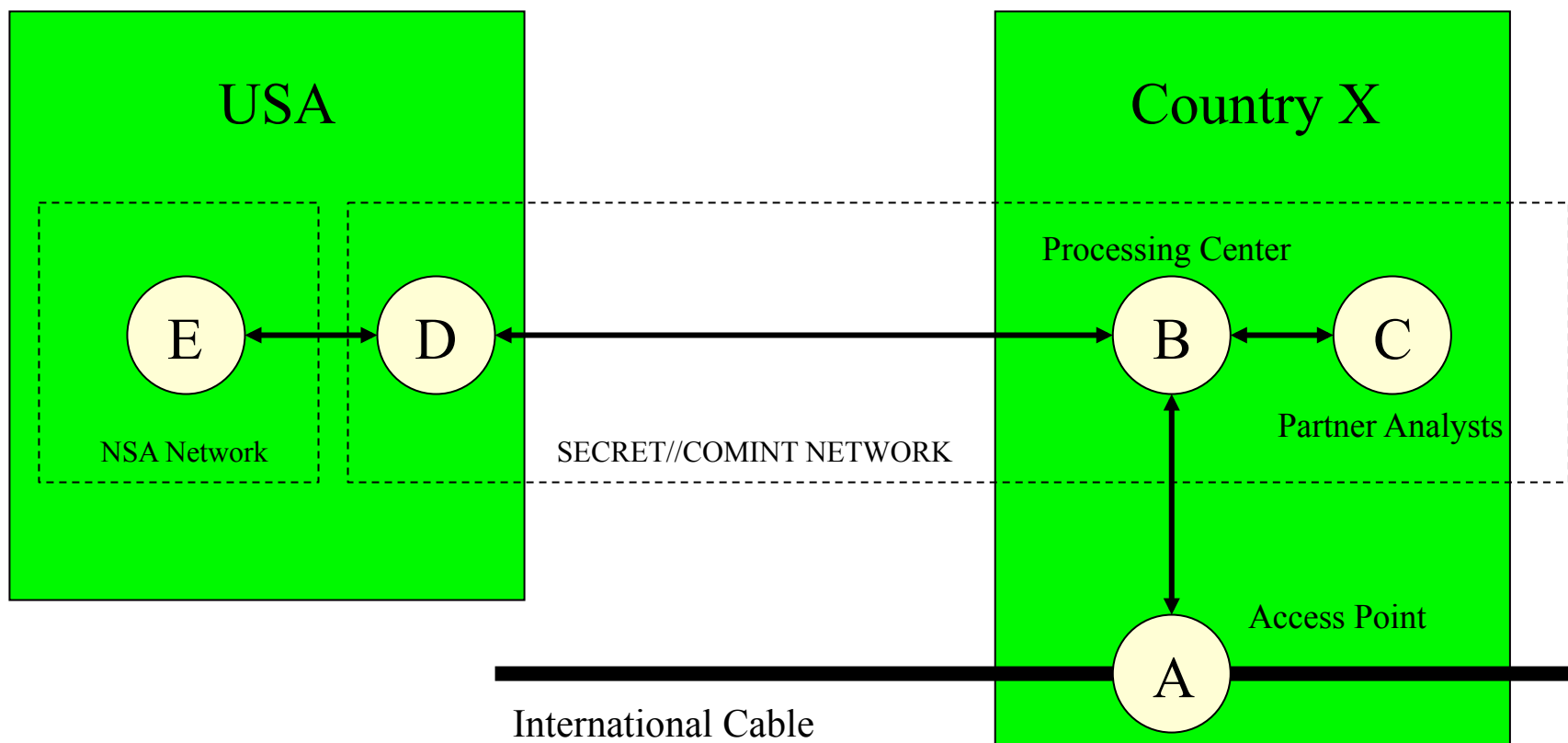


RAM- A Projects

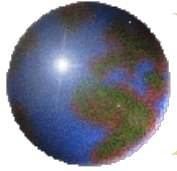
- **US-3237/SMOKYSINK** (no 3rd party partner/joint RAM-T)
 - **DNR & DNI**
- **US-3127/AZUREPHOENIX**
 - **DNR & DNI**
- **US-3180/SPINNERET**
 - **DNR & DNI**
- **US-982/TRANQUIL – Retired June 2010**
 - **DNR & DNI**
- **US-3145/MOONLIGHTPATH**
 - **DNI & DNR (September 2010)**
- **US-3190/FIREBIRD**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



RAMPART-A Typical Operation



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Sensitivity Factors

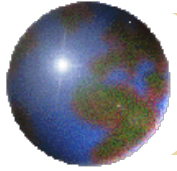
✚ (TS//SI//NF//ECI) Compartmentalization

✚ 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

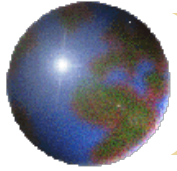


Capabilities

✚ (TS//SI) Capabilities:

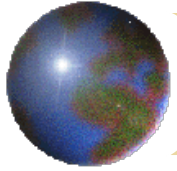
- ✚ Automated, Continuous, High-Speed Survey of Circuit and Packet Switched Traffic
- ✚ Packet-Switched selection & session collection
- ✚ Dial Number Recognition of Circuit-Switched telephony

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



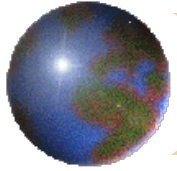
SIGINT Value Added

- ✚ (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



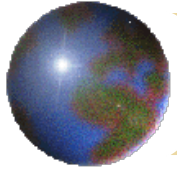
SMOKYSINK

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



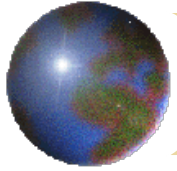
AZUREPHOENIX

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



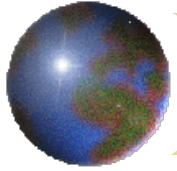
SPINNERET

- ❖ (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

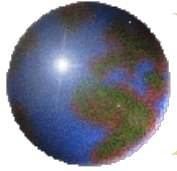
- ✚ (S) DNI system deployment – April 2009
- ✚ (TS//SI) New Cable access survey – May 2009
- ✚ (S) Site B rehab – Winter 2009
- ✚ (TS//SI) New access in Sept. 2010
- ✚ (TS//SI) New DNR/DNI system deployment – first phase (DNR) in May 2010. DNI to follow TU deployment schedule



TRANQUIL

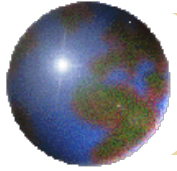
❖ (TS//SI) TRANQUIL shut down in
June, 2010





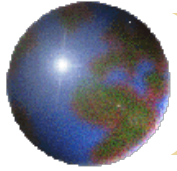
FIREBIRD

- ❖ (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



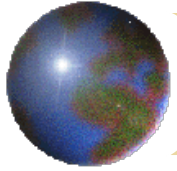
FLASHMARK

- ❖ (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.



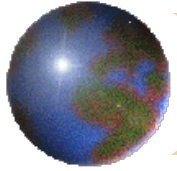
FALCONSTRIKE

- ✦ (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



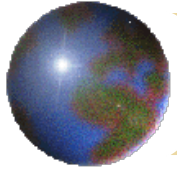
DULCIMER

- ⊕ (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