PRISM/US-984XN Overview

OR

*The SIGAD Used **Most** in NSA Reporting* Overview

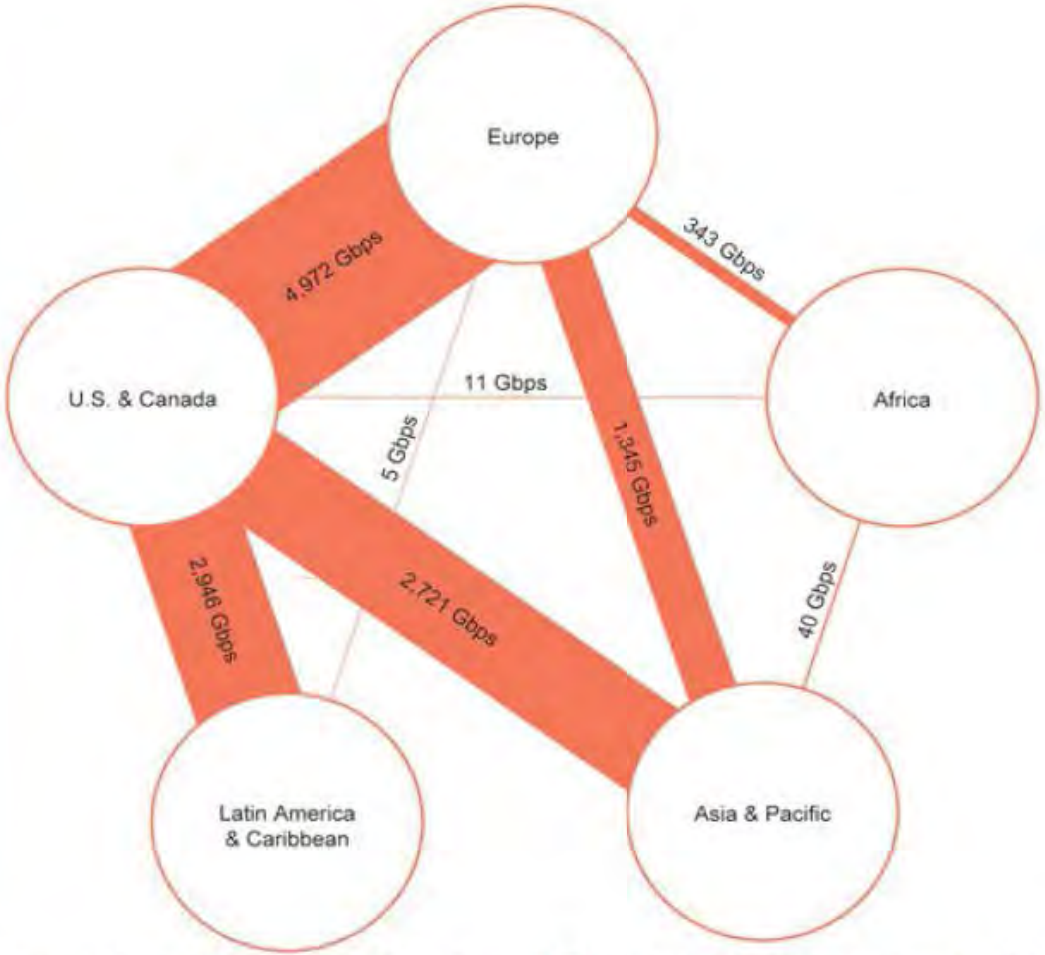
[redacted] PRISM Collection Manager, S35333

April 2013

(TS//SI//NF) Introduction

U.S. as World's Telecommunications Backbone

- Much of the world's communications flow through the U.S.
- A target's phone call, e-mail or chat will take the **cheapest** path, **not the physically most direct** path – you can't always predict the path.
- Your target's communications could easily be flowing into and through the U.S.



International Internet Regional Bandwidth Capacity in 2011

Source: Telegeography Research

(TS//SI//NF) FAA702 Operations

Two Types of Collection

Upstream

- Collection of communications on fiber cables and infrastructure as data flows past.

(FAIRVIEW, STORMBREW, BLARNEY, OAKSTAR)

You Should Use Both

PRISM

- Collection directly from the servers of these U.S. Service Providers: Microsoft, Yahoo, Google Facebook, PalTalk, AOL, Skype, YouTube Apple.

(TS//SI//NF) FAA702 Operations

Why Use Both: PRISM vs. Upstream

	PRISM	Upstream
DNI Selectors	✓ 9 U.S. based service providers	✓ Worldwide sources
DNR Selectors	⊘ Coming soon	✓ Worldwide sources
Access to Stored Communications (Search)	✓	⊘
Real-Time Collection (Surveillance)	✓	✓
"Abouts" Collection	⊘	✓
Voice Collection	✓ Voice over IP	✓
Direct Relationship with Comms Providers	⊘ Only through FBI	✓

(TS//SI//NF) PRISM Collection Details

Current Providers

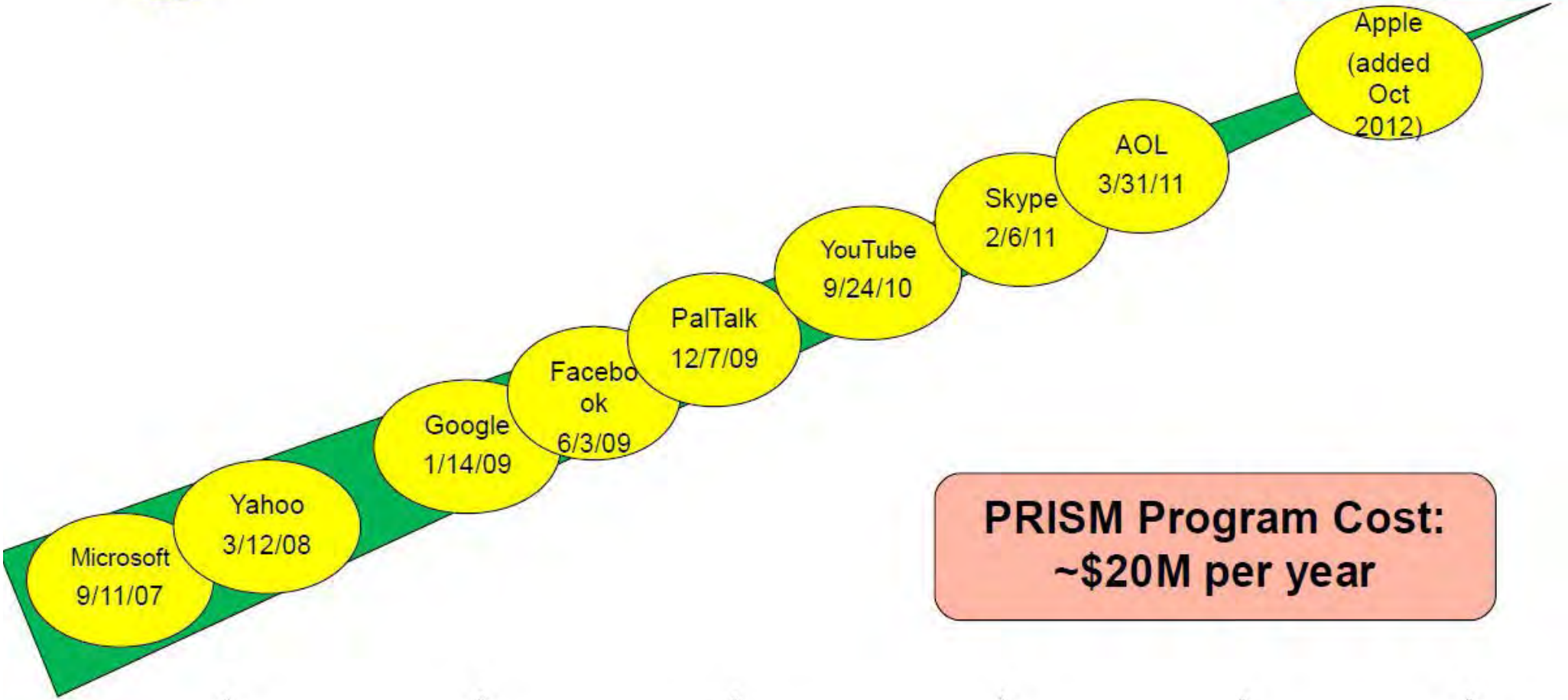
- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

What Will You Receive in Collection (Surveillance and Stored Comms)?
It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details
- **Special Requests**

Complete list and details on PRISM web page:
Go PRISMFAA

(TS//SI//NF) Dates When PRISM Collection Began For Each Provider



PRISM Program Cost: ~$20M per year

(TS//SI//NF) FAA702 Reporting Highlight

PRISM and STORMBREW Combine

To Thwart [redacted]

SAME-DAY NTOC/FBI COLLABORATION

PREVENTS 150GB EXFIL EVENT FROM CLEARED DEFENSE CONTRACTOR (CDC)

2012 14 DEC

[redacted]

2 NTOC tips the FBI to the activity

3 The FBI contacts the CDC and works with them to clean the network

The victim performed comprehensive actions on the infected network, thus **PREVENTING EXFILTRATION** on the **SAME DAY NTOC DISCOVERED ADVERSARY INTENT**

(TS//SI//NF) Some Higher Volume Domains Collected from FAA Passive

In addition to Hotmail, Yahoo, Google, Paltalk, Facebook, Skype, AOL:

Select IP Addresses

[redacted]

[redacted]

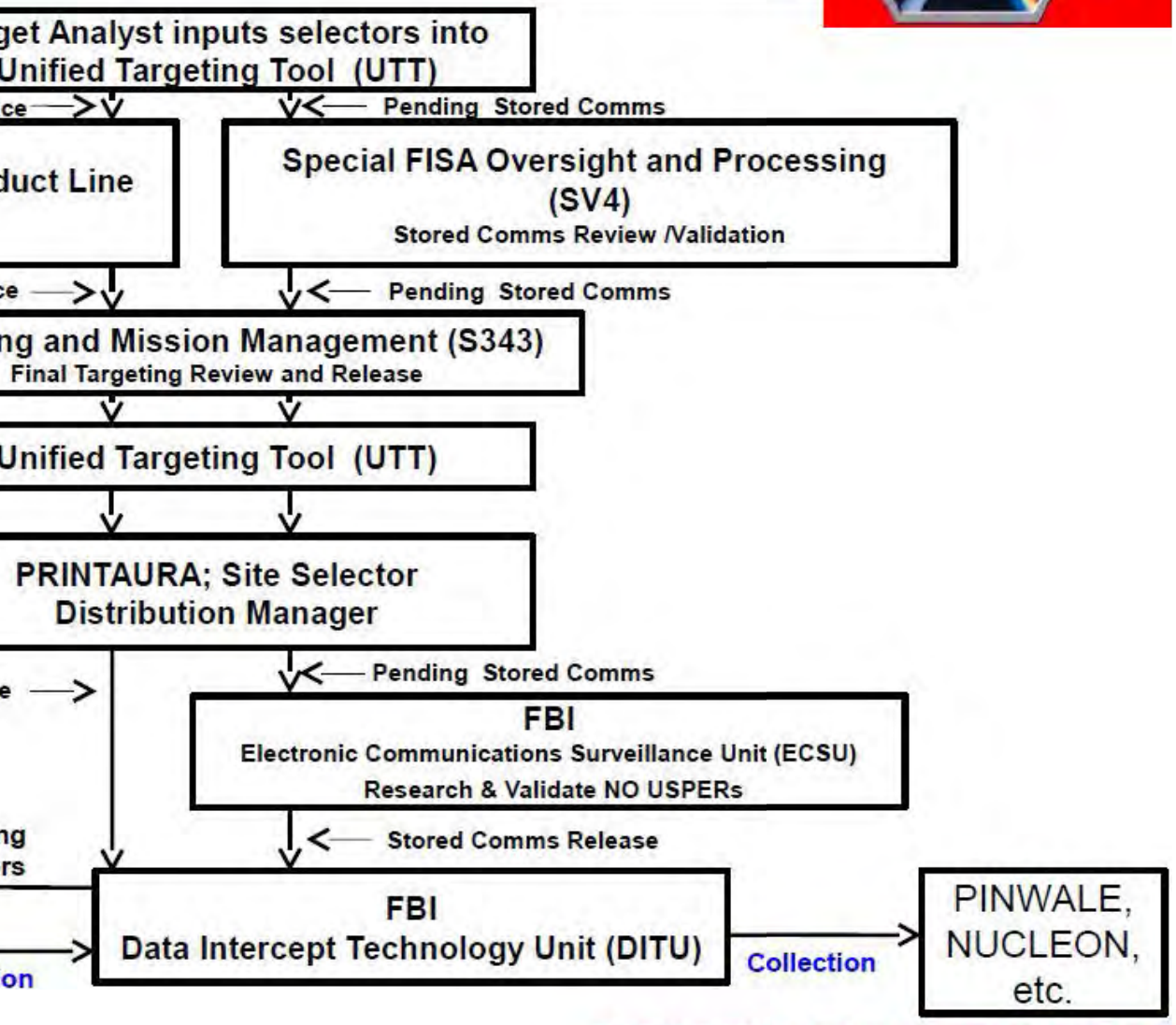
wanadoo.fr

[redacted]

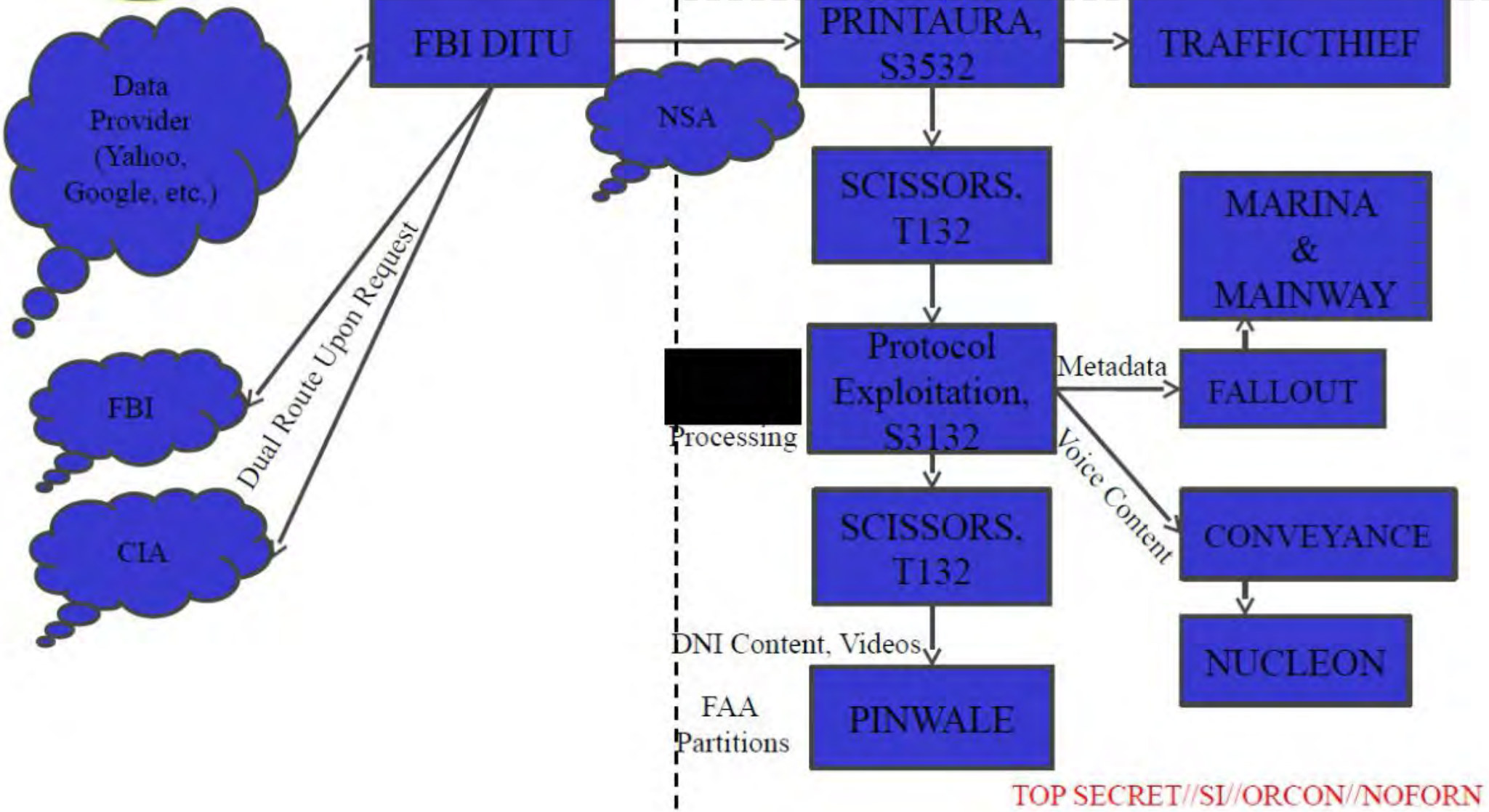
alcatel-lucent.com

[redacted]

(TS//SI//NF) PRISM Tasking Process



(TS//SI//NF) PRISM Collection Dataflow



(TS//SI//NF) PRISM Case Notations

P2ESQC120001234

PRISM Provider
- P1: Microsoft
- P2: Yahoo
- P3: Google
- P4: Facebook
- P5: PalTalk
- P6: YouTube
- P7: Skype
- P8: AOL
- PA: Apple

Fixed trigraph, denotes PRISM source collection

Year CASN established for selector

Serial #

Content Type
- A: Stored Comms (Search)
- B: IM (chat)
- C: RTN-EDC (real-time notification of an e-mail event such as a login or sent message)
- D: RTN-IM (real-time notification of a chat login or logout event)
- E: E-Mail
- F: VoIP
- G: Full (WebForum)
- H: OSN Messaging (photos, wallposts, activity, etc.)
- I: OSN Basic Subscriber Info
- J: Videos
- . (dot): Indicates multiple types