

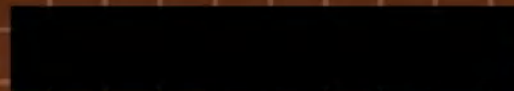


# 2010 SIGINT Development Conference

SIGDEV: Discovery in the Cyber Age

(U//FOUO) QUANTUM THEORY

(U//FOUO)



S32X



# (U) Classification of Presentation

- This presentation is classified:

**TOP SECRET // COMINT // REL TO USA, FVEY // 20320108**

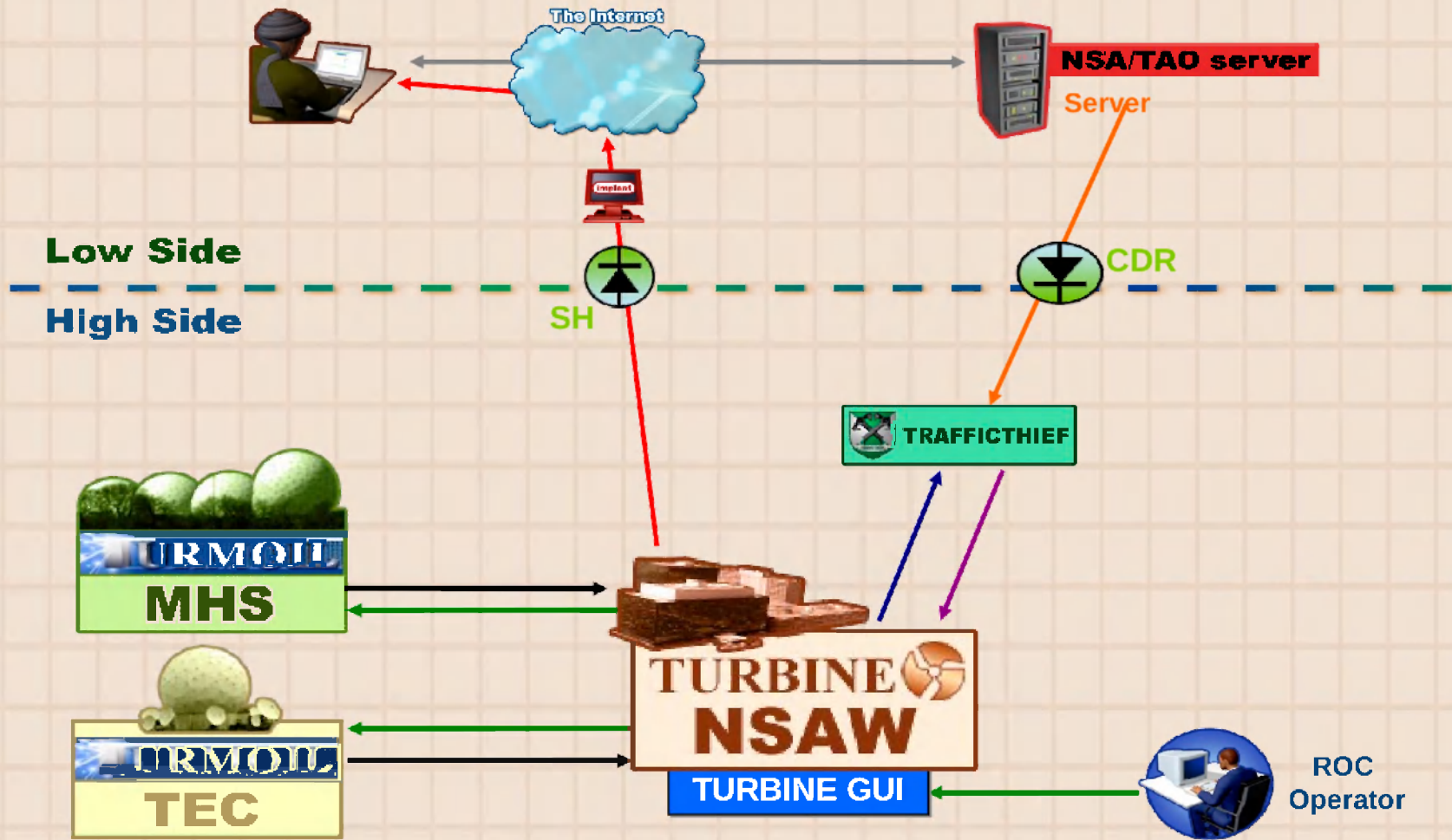


# (U) What is QUANTUMTHEORY

- (U//FOUO) Nothing to do with “Quantum Computing”
- (S//SI//REL) Protocol injection technique
  - Passive
  - Active
- (S//REL) Not Man-in-the-Middle
  - But can be used to gain that position
- (S//REL) Man-on-the-Side
- (S//REL) Mostly Low Latency... mostly



# (U) Man on the Side?



# (C) Components of QUANTUM Architecture

- ▣ (S//REL) TURMOIL
  - ▣ (or LPT, LPT-D, what else can you kludge for tipping... cough.. NINJANIC)
  - ▣ Passive Sensor
  
- ▣ (S//REL) TURBINE
  - ▣ Active Mission Logic of Remote Agents
  
- ▣ (C//REL) ISLANDTRANSPORT
  - ▣ Messaging Fabric
  
- ▣ (S//REL) SURPLUSHANGER
  - ▣ High->Low diodes
  
- ▣ (S//REL) STRAIGHTBIZARRE or DAREDEVIL
  - ▣ Implant / Shooter



## (C) Legacy QUANTUMTHEORY techniques

- (TS//SI//REL) QUANTUMINSERT
  - HTML Redirection
  
- (TS//SI//REL) QUANTUMSKY
  - HTML/TCP resets
  
- (TS//SI//REL) QUANTUMBOT
  - IRC botnet hijacking



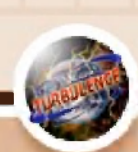
# (U) New Hotness

- ▣ (TS//SI//REL) QUANTUMBISCUIT
  - ▣ Redirection based on keyword
  - ▣ Mostly HTML Cookie Values
  
- ▣ (TS//SI//REL) QUANTUMDNS
  - ▣ DNS Hijacking
  - ▣ Caching Nameservers
  
- ▣ (TS//SI//REL) QUANTUMBOT2
  - ▣ Combination of Q-BOT/Q-BISCUIT for web based Command and controlled botnets



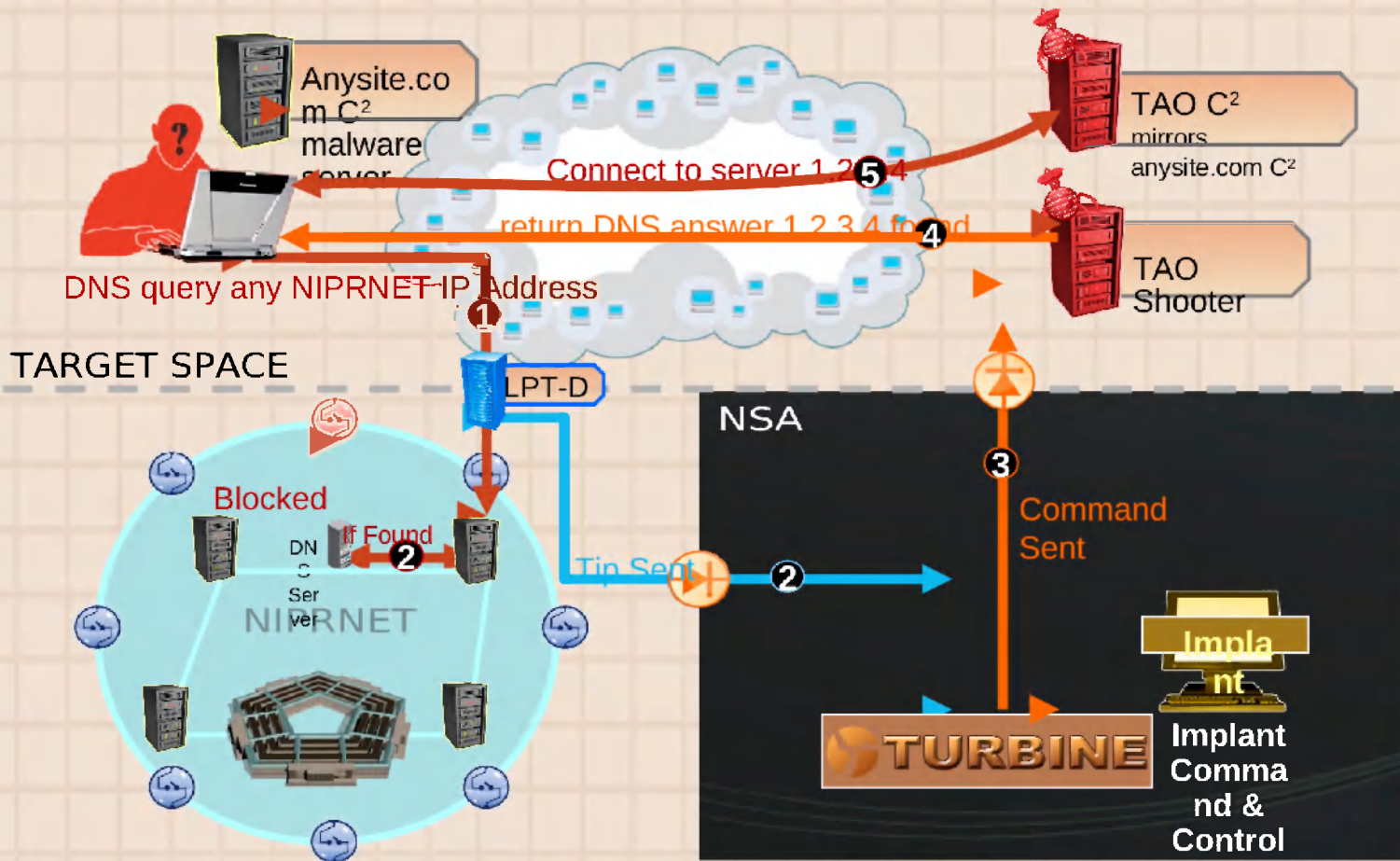
# (U) Experimental

- (TS//SI//REL) QUANTUMCOPPER
  - File download disruption
  
- (TS//SI//REL) QUANTUMMUSH
  - Virtual HUFFMUSH / Targeted Spam Exploitation
  
- (TS//SI//REL) QUANTUMSPIM
  - Instant Messaging (MSN chat, XMPP)
  
- (TS//SI//REL) QUANTUMSQUEEL
  - Injection into MySQL persistent database connections
  
- (TS//SI//REL) QUANTUMSQUIRREL
  - Truly covert infrastructure, be any IP in the world





# (U//FOUO) QUANTUMDEFENSE



# (C) Where/What can you QUANTUM

- (S//SI//REL) Menwith Hill Station (USJ-759, USJ-759A,...)
  - Operational: Q-INSERT, Q-SKY, Q-DNS, Q-BISCUIT, Q-BOT
  - Tested: Q-COPPER, Q-SQUIRREL, Q-BOT2
  
- (S//SI//REL) Misawa AFB (USF-799,...)
  - Operational: Q-INSERT
  
- (S//SI//REL) INCENSOR (DS-300) – with help from GCHQ
  - Operational: Q-BOT, Q-BISQUIT, Q-INSERT
  - Tested: Q-SQUEEL, Q-SPIM
  
- (TS//SI//REL) NIPRNET Gateways
  - Operational: Q-DNS
  
- (S//SI//REL) **Coming Soon....**
  - **SMOKEYSINK**
  - **SARATOGA**





# Questions?

[REDACTED] S32X, [REDACTED]

qt room in LINKUP

DL QUANTUM\_HELP

