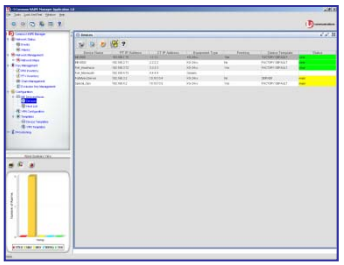
L3 communications

Talon®

(KOV-26)
Product Overview

communications



Common HAIPE® Manager
HAIPE IS v3 MIBs
Northbound Interface
Wizards, Templates
Client and Browser Capable

NetCentric Security

Faster networking
Interoperable security
Smaller, mobile packaging
Industry's broadest set of options

All focused on supporting your fixed-site, mobile, airborne & tactical requirements

5 Mbps

L-3 Talon™
SCIP and HAIPE®
Wired and Wireless
Ethernet, 802.11b/g, v.90, RS-232
Voice and Data
NSA Certified

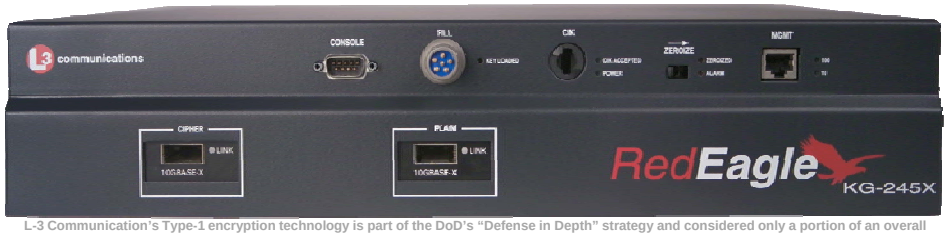
100 Mbps

L-3 KG-240A (alpha)
HAIPE® and Foreign Interoperability
Ruggedized
Copper and Fiber

1 Gbps

L-3 KG-245A (alpha)
HAIPE® and Foreign Interoperability
Full Tactical
Copper and Fiber

10 Gbps



L-3 KG-245X
HAIPE®
Enterprise / Backbone
Fiber XFP Modules
NSA Certified

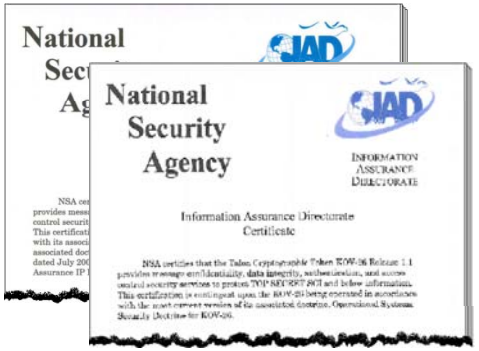
communications
Communication Systems–East
www.L-3Com.com/HAIPE

Talon Overview

- Talon is a Type-1 COMSEC Device
- Used with a laptop computer to secure data-in-transit
- Offers unsurpassed
  - Security
  - Interoperability
  - Flexibility
  - Portability
  - Ease of use, and
  - Value

Talon Security

- NSA Certified to protect voice and data up to **TOP SECRET/SCI**
  - Confidentiality
  - Authentication
  - Data Integrity
  - Access Control
  - High-Assurance Implementation



- Supports both Pre-placed and Modern Key
  - Up to 384 Traditional (pre-placed/symmetric) Keys
    - 12 months for each of 32 Security Associations
  - Up to 8 Firefly or Enhanced Firefly (SDNS) Key sets
    - Current and Next, including CKLs
  - Supports all major key fill devices
    - DTD, SKL, SDS-2000, and KSD
  - Supports Rekey via SCIP rekey call to NSA CF

- Releasable to CCEB Nations and NATO
  - U.S., U.K., Canada, Australia, New Zealand

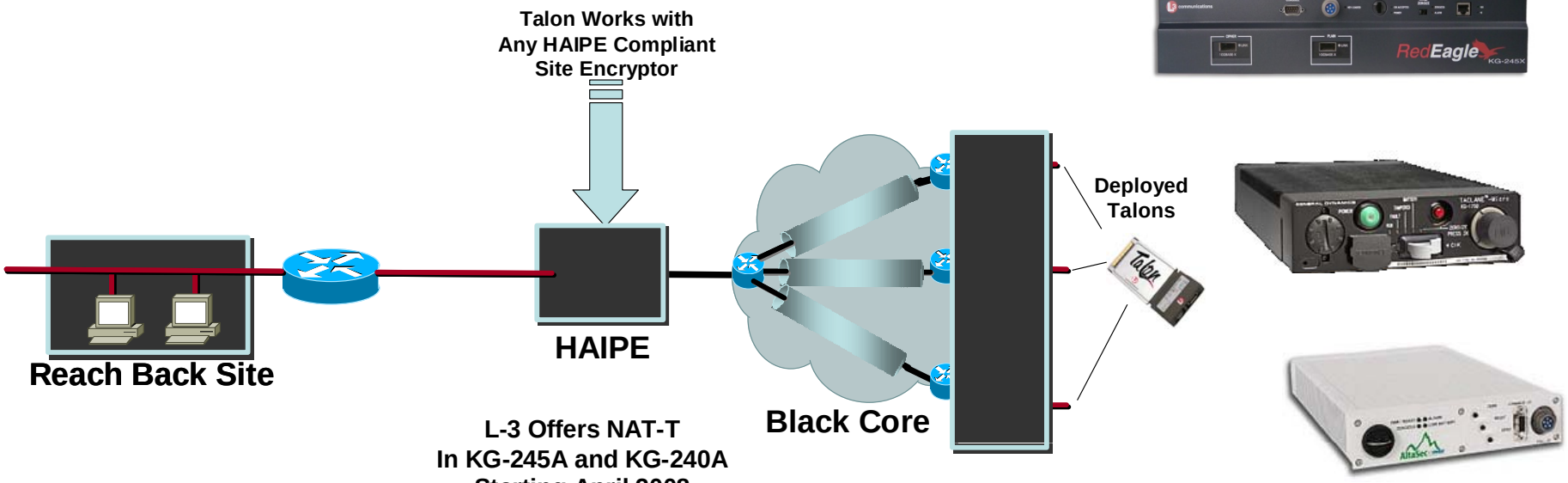
Talon Interoperability

- Employs both NSA Open-standard Communication Protocols: SCIP *and* HAIPE IS™ for voice/data up to TS/SCI

- SCIP = Secure Communications Interoperability Protocol
  - Used for circuit-switched telephone voice and data
    - Voice using standard MELP and G.729D vocoders
    - Data, including Fax, Reliable Transport, and Guaranteed Throughput
    - Mode Change
    - Auto answer, auto secure, speed dial, secure dial, mute, redial, favorite numbers list
    - Secure Access Control System (SACS) - access control list based on DAO, KMID, or Min/Max security levels
  - Interoperable with any NSA-certified SCIP device, e.g. STE, OMNI, Sectera Wireline Terminal, Guardian, Edge

Talon Interoperability (cont'd)

- HAIPE IS™ = High Assurance Internet Protocol Encryptor Interoperability Specification
  - Used for packet-switched IP data and includes:
    - Dynamic Addressing
    - Network Address Translation Traversal
    - Blackside/Redside Ping
    - Dial-up support HAIPE to ISP
    - Multiple INE protecting the same red network (failover)
  - Interoperable with any manufacturer's HAIPE certified device, e.g. KG-240A, KG-245A, KG-245X, Taclane, KG-250



Talon Flexibility

- Talon supports a range of Network Interfaces for virtually any operational situation
- Network interfaces via COTS USB adapters
  - Ethernet
    - Office access to SIPRNET instead of PDS
    - Home cable modem
    - Hotels
  - Wi-Fi (802.11b/g)
    - Infrastructure and Ad Hoc Modes
    - Supports WEP, WPA, 802.1x authentication
  - Dial-up Modem (V.90)
    - Supports standard Hayes AT command set
    - Can be used for both HAIPE and SCIP
  - Serial (RS-232)
    - Supports legacy SATCOM terminals and ISDN Terminals

Talon Portability

- Talon weighs 3 ounces, easily fits in a shirt pocket or laptop bag, and is indistinguishable from a commercial NIC
- Talon is powered by the host laptop – no AC adapter, no batteries, wireless
- CCI Handling – unclassified even when keys are loaded
  - Can be hand carried
  - Can be configured centrally and shipped by FedEx, DHL, or U.S. Postal Service
- One Talon can be assigned to up to 15 users accounts
  - Ranges from 1 User on 15 laptops to 15 users on 1 laptop
  - Also supports up to 3 Site Security Officer (SSO) Accounts
- Can be used with Laptop, Desktop, or Thin Client
  - Operates with Windows OS's, including XP-embedded and Server 2003
  - Linux OS support in development

Talon Ease of Use

- Talon uses a simple, intuitive graphical user interface
- For HAIPE users, login to the card and you're ready to go
- If a Modem or Serial adapter is attached the user is presented a dialer screen
- If the Wi-Fi adapter is attached, the user is presented a commercial-like scan and connect screen
- Card configuration is simplified by cloning – set up your network configuration once and clone to other Talons with a single command.
- Talon supports rekey via annual Central Facility rekey call – <u>no need to return the unit from the field for rekey!</u>

-- if you can use Windows – you can use Talon --

Talon Value

- **Talon is the lowest cost HAIPE device on the Market -- and supports SCIP too!**
  - Talon leverages the power of the laptop to perform the work of two crypto devices on a single card
  - The price of a Talon is comparable with the lowest cost SCIP devices and less than ¼ of the next closest HAIPE device (FREE HAIPE!)
- **L-3 has negotiated high-volume pricing with the NSA which is available to the user for quantity of one**
- **Talon achieves low cost by:**
  - Using COTS ancillaries to minimize cost and simplify logistics
  - State-of-the-art manufacturing processes to reduce cost and increase reliability (MTBF of 528K hours)

Typical Talon
Secure Network Applications

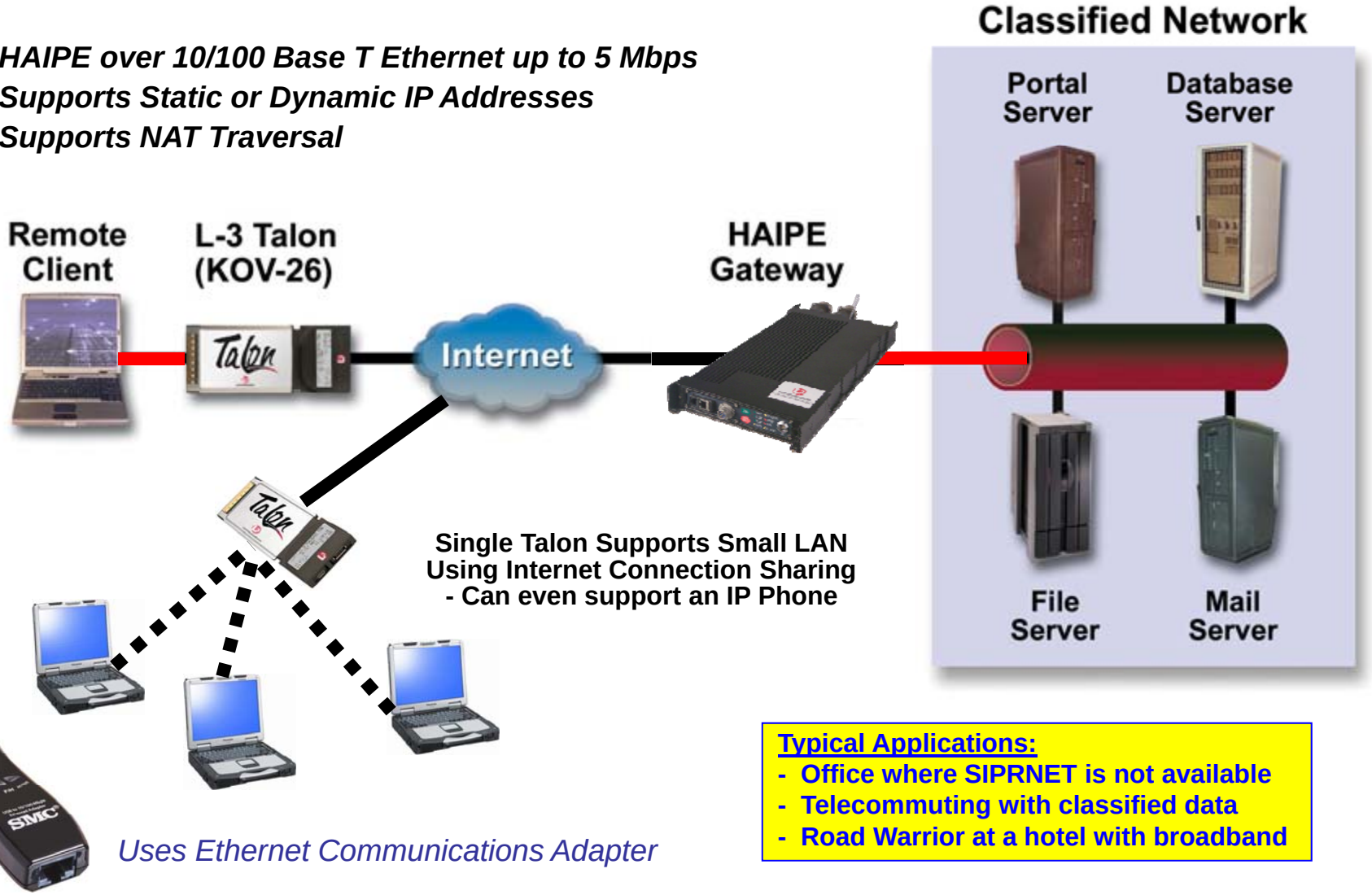
HAIPE Overview

- **What is a HAIPE?**
  - HAIPE = High Assurance Internet Protocol Encryptor
  - INE = In-line Network Encryptor
  - A HAIPE INE protects Red Data that needs to transverse a Black Network through use of secure tunnels

- **HAIPE Interoperability Specification (IS) is the NSA required format to secure classified data on IP Networks**
  - Working group defines specification
  - NSA performs security testing
  - SPAWAR Systems Center San Diego performs HAIPE™ IS Interoperability Testing (HIT)
  - Status:
    - Current Products are certified to HAIPE IS 1.3.5
    - NSA contract for Foreign Interoperability provided to two vendors: L-3 Communications, GD
    - NSA provided contract for HAIPE IS version 3 to three vendors: L-3 Communications, GD, Viasat

HAIPE over Ethernet

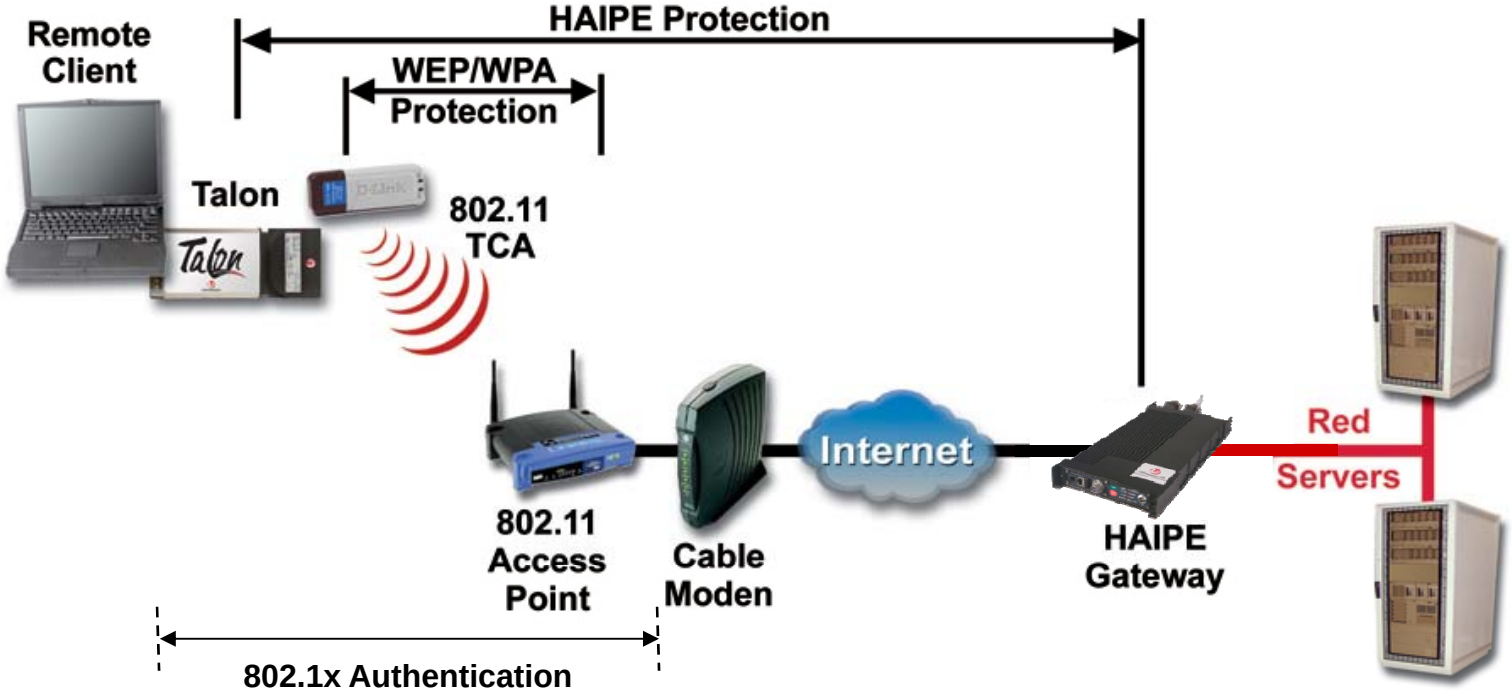
- ***HAIPE over 10/100 Base T Ethernet up to 5 Mbps***
- ***Supports Static or Dynamic IP Addresses***
- ***Supports NAT Traversal***



Typical Applications:
- **Office where SIPRNET is not available**
- **Telecommuting with classified data**
- **Road Warrior at a hotel with broadband**

HAIPE over Wi-Fi (Infrastructure Mode)

- *802.11b/g Infrasturcture Mode*
  - *Up to 5 Mbps*
  - *802.11 Security*
    - *WPA, WEP, 802.1x*
  - *Works with any COTS access point*

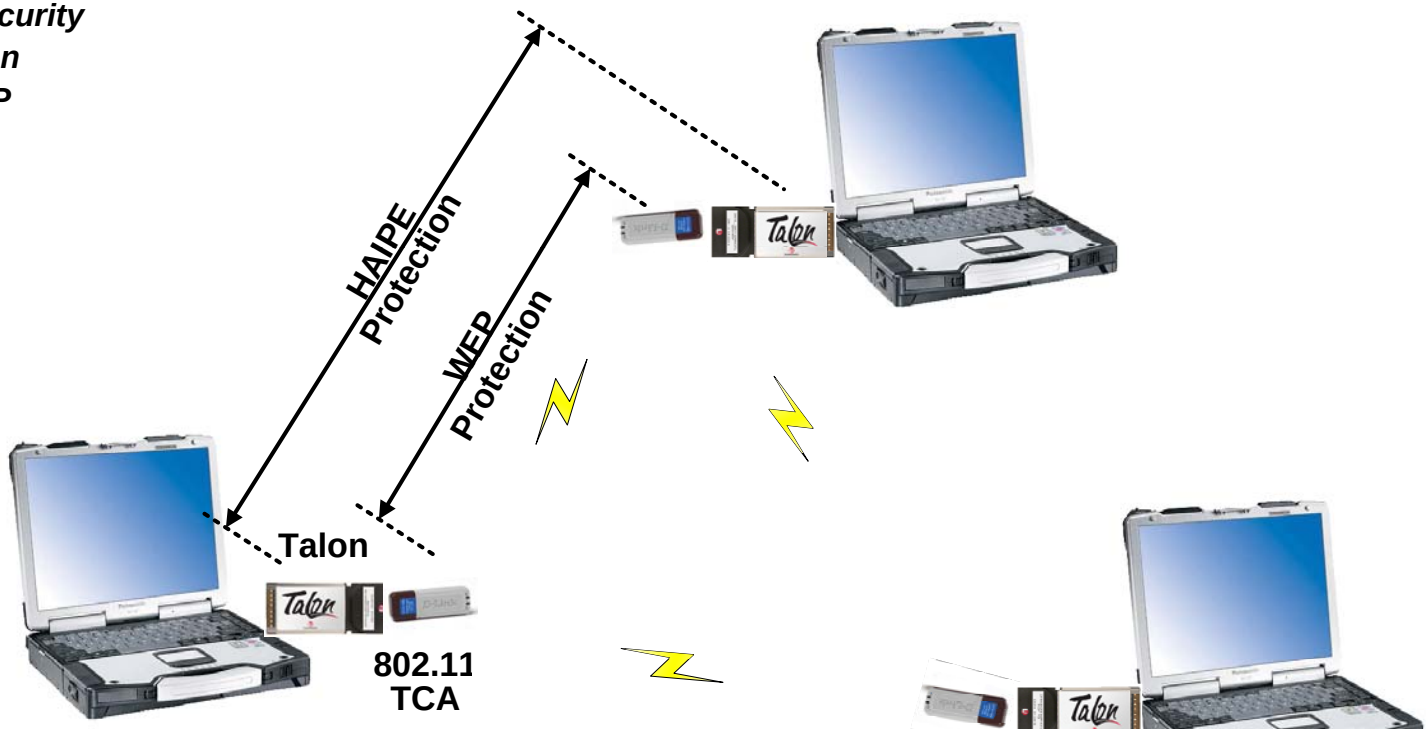


Uses Wi-Fi Communications Adapter

Typical Applications:
- **Office where Wi-Fi access point available**
- **Telecommuting with Wi-Fi in home office**
- **Road Warrior at a hotel with Wi-Fi**
- **Cable-less rapid deployment**

HAIPE over Wi-Fi (Ad Hoc Mode)

- ***Ad-hoc Mode (Talon to Talon)***
  - ***Rapid System Interconnect without running cable***
  - ***802.11 Security***
    - ***Open***
    - ***WEP***

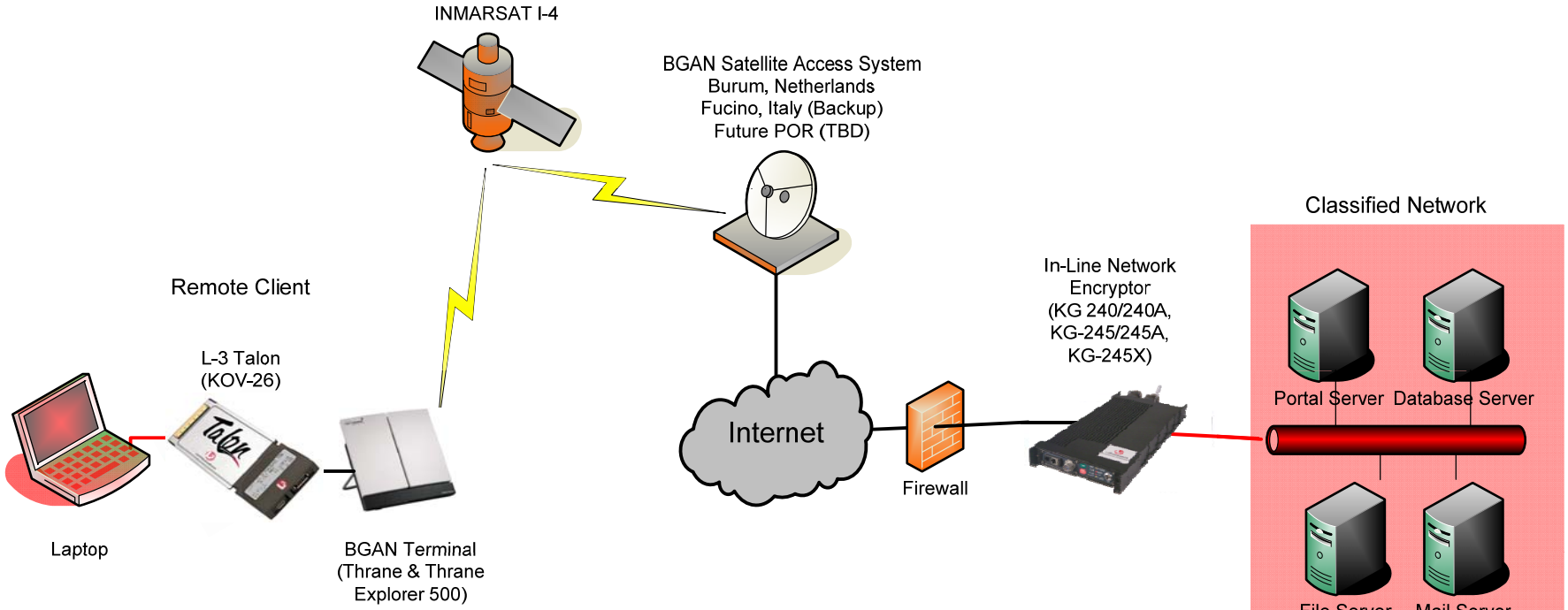


Uses Wi-Fi Communications Adapter

Typical Applications:
- **Cable-less rapid deployment**
- **SpecOps deployments**
- **Comms in transit**

HAIPE over Inmarsat BGAN

- ***Secure IP at Broadband Speeds***
- ***Also supports SCIP Secure Voice & Data (not shown)***

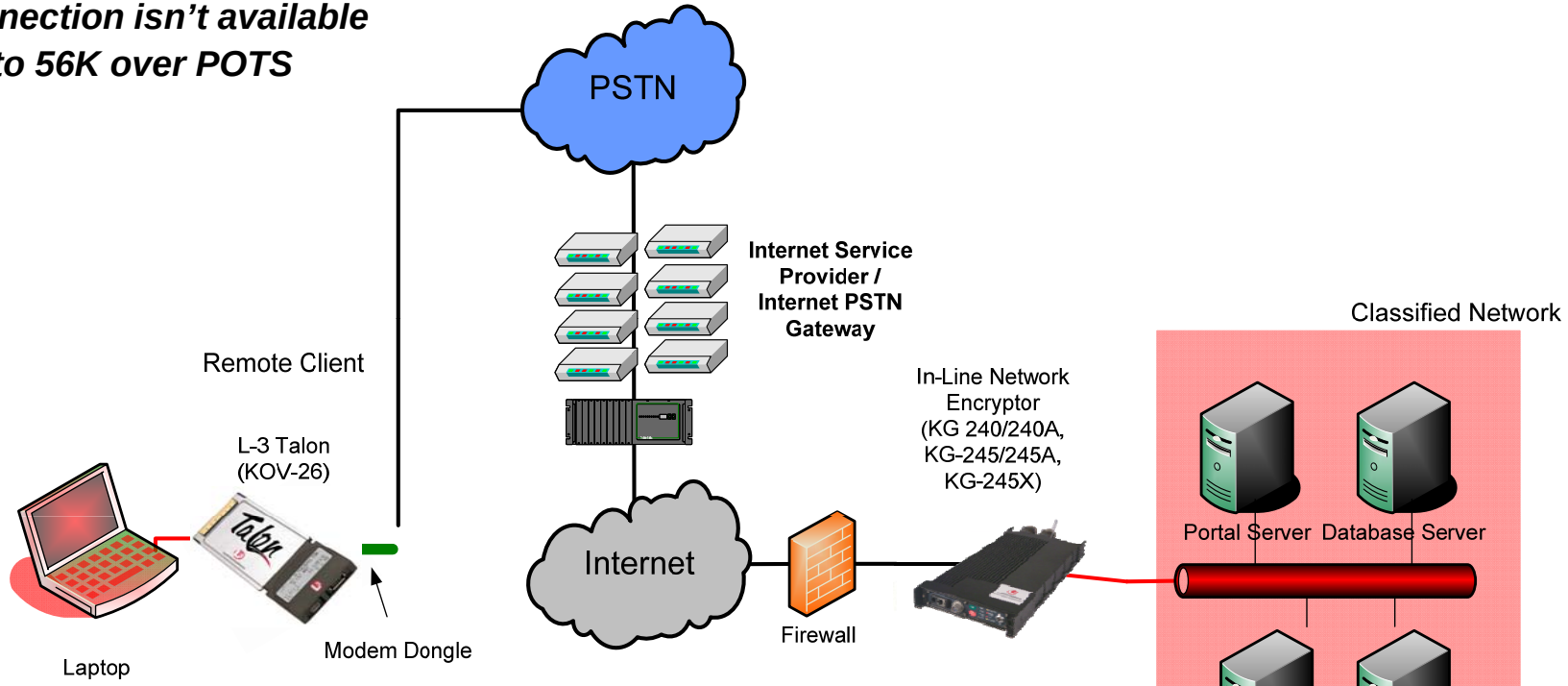


Uses Ethernet Communications Adapter

Typical Applications:
- **Remote access where no infrastructure is available**
- **Fly-away kit for special ops applications**

HAIPE over Dial-up

- ***HAIPE via an ISP, when Broadband connection isn't available***
- ***Up to 56K over POTS***

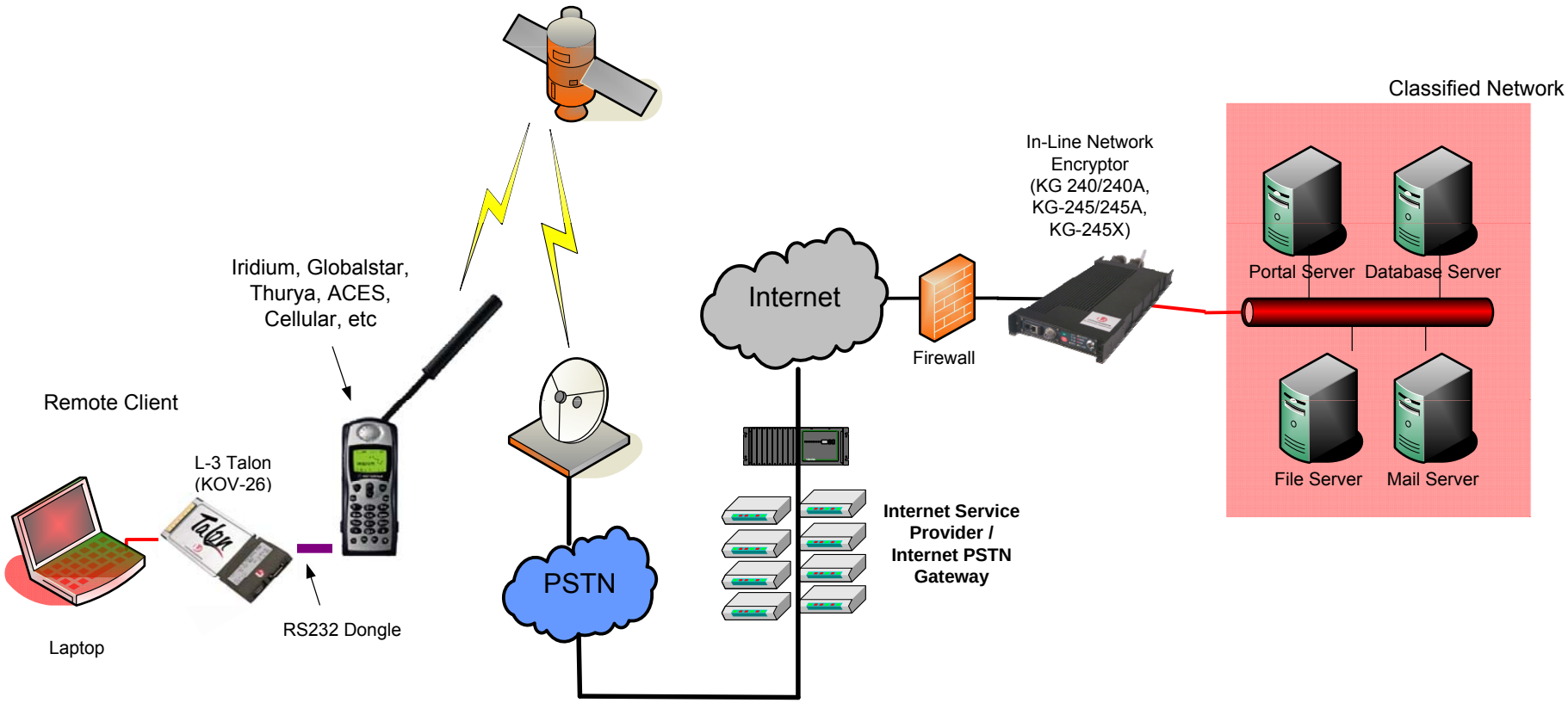


Typical Applications:
- **Remote access where no broadband is available (foreign access)**
- **Agency ISP access**

Uses V.90 Modem Communications Adapter

HAIPE over Serial SATCOM

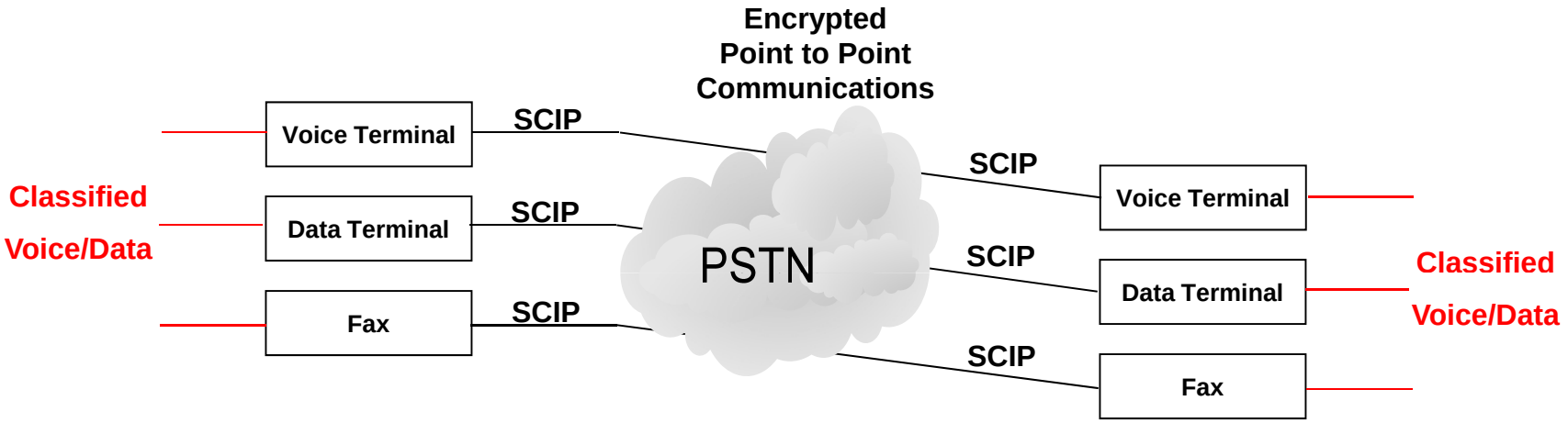
- ***Interconnect to Legacy SATCOM via RS-232***



Uses RS-232 Communications Adapter

SCIP Overview

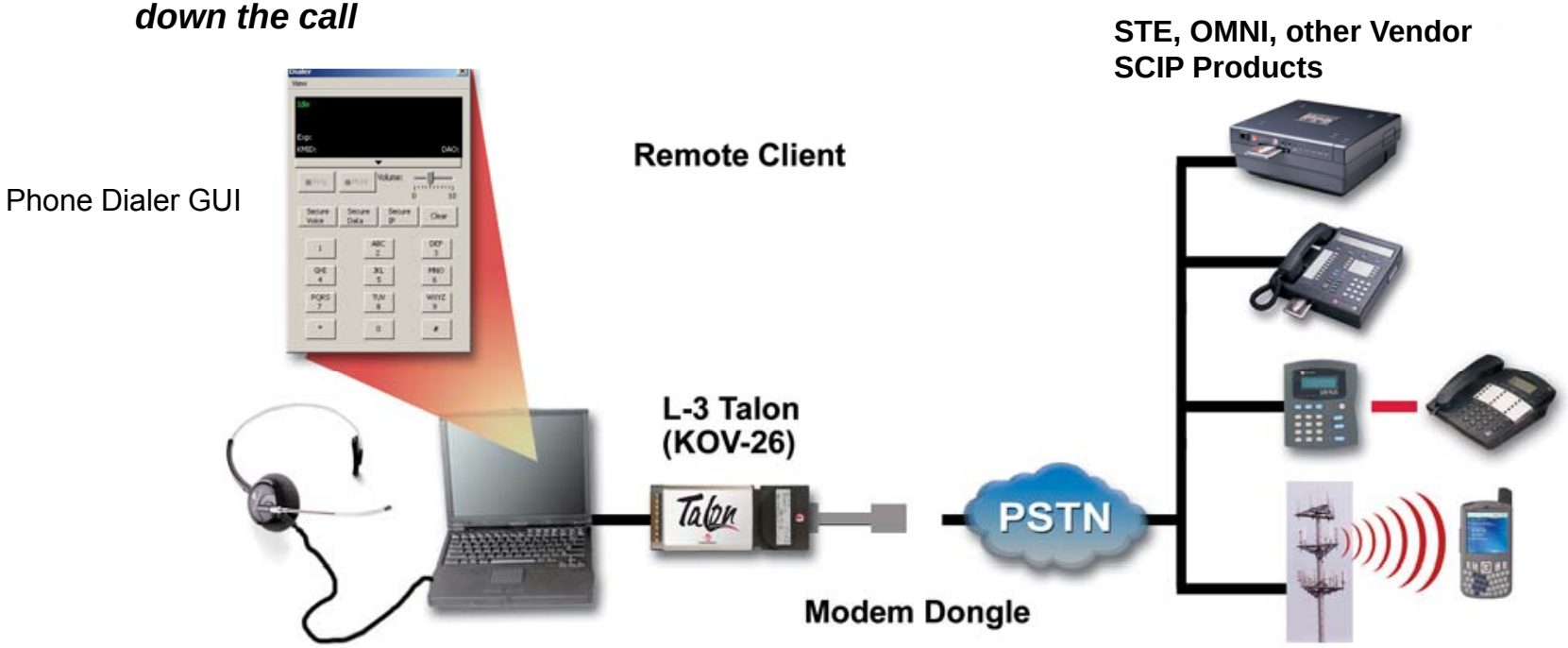
- **What is a SCIP?**
  - SCIP = Secure Communications Interoperability Protocol (formerly known as FNBDT - Future Narrowband Data Terminal)
  - Terminal = A circuit switched device that handles voice and/or data over a variety communications systems including commercial land line telephone, military radios, satellites, and the several different cell phone standards
  - Similar to a dial-up modem - once a connection is made, two SCIP phones negotiate security and operational parameters and then communicate in the best way possible



- **SCIP is the U.S. Governments standard for secure voice and data communication.**
  - Working group defines specification
  - High-Assurance Implementation supports communications up to TS/SCI
  - NSA performs security testing
  - GD Needham performs SCIP Interoperability Testing

SCIP Voice

- ***SCIP Voice over POTS***
- ***Uses Laptop Sound Card***
- ***Supports MELP and G.720 vocoders***
- ***Can switch to Data without breaking down the call***

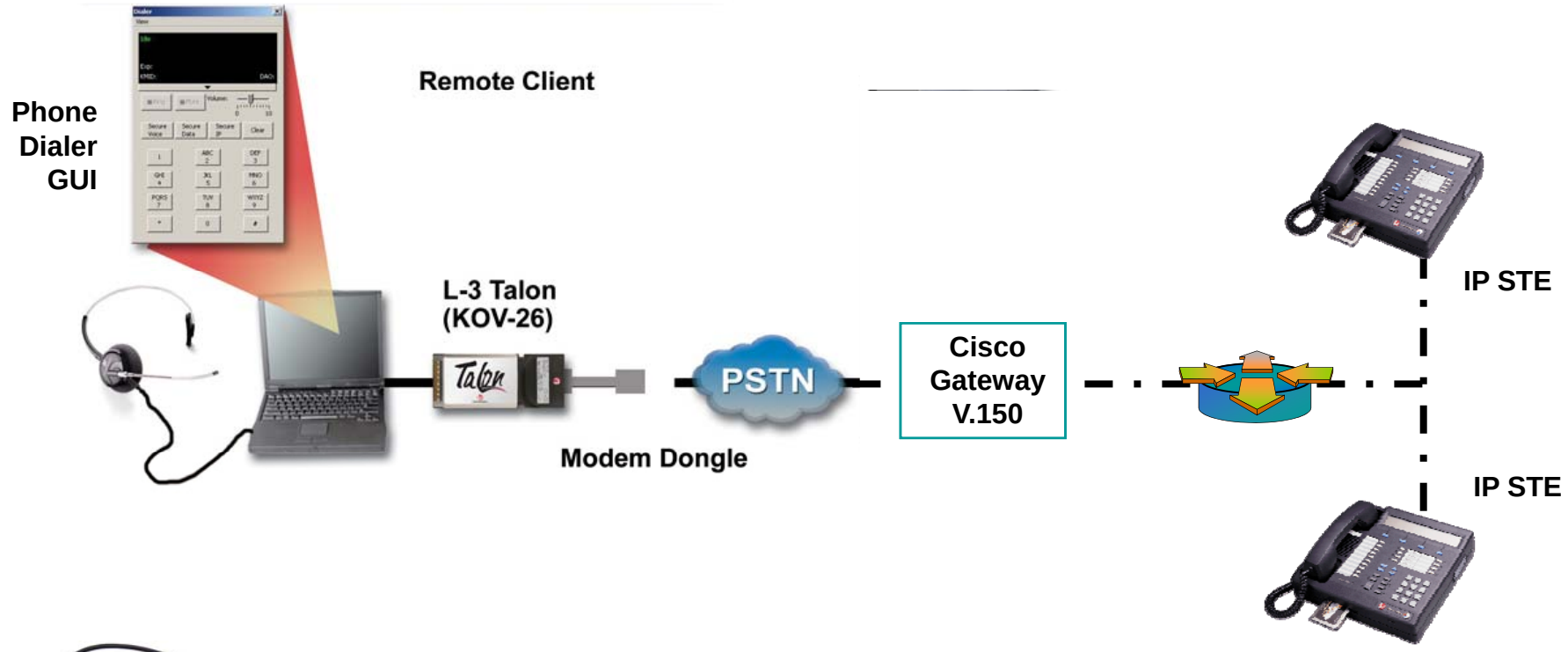


Typical Applications:
- Access to SCIP devices like a STE/OMNI

Uses V.90 Modem Communications Adapter

SCIP with VOIP-STE

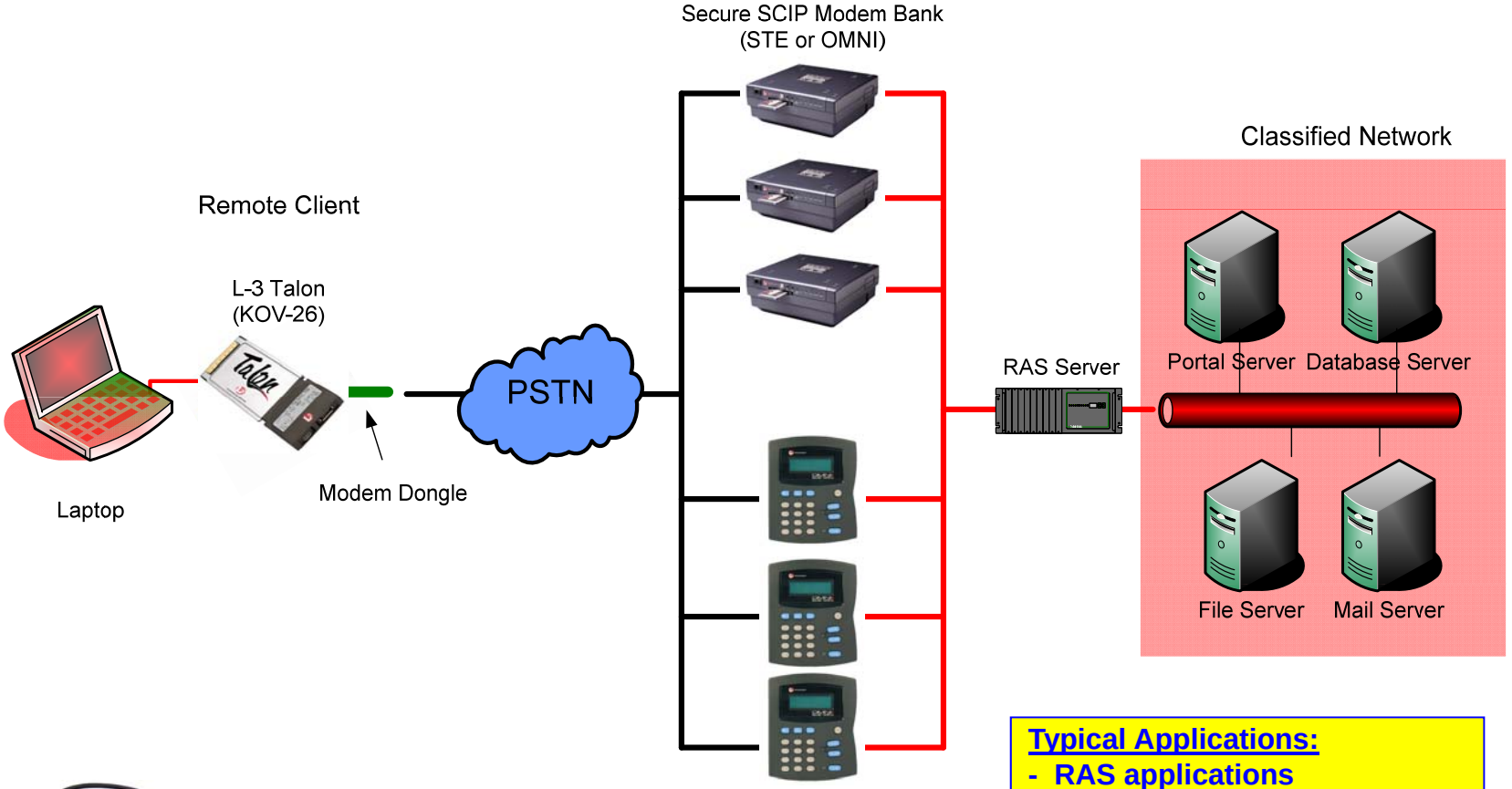
- ***SCIP Voice over POTS to a CISCO Gateway***
- ***Cisco Gateway handles transition from Circuit to Packet switch networking***



Uses V.90 Modem Communications Adapter

SCIP Data over PSTN

- ***SCIP Data over POTS***
- ***Also supports Fax capability***

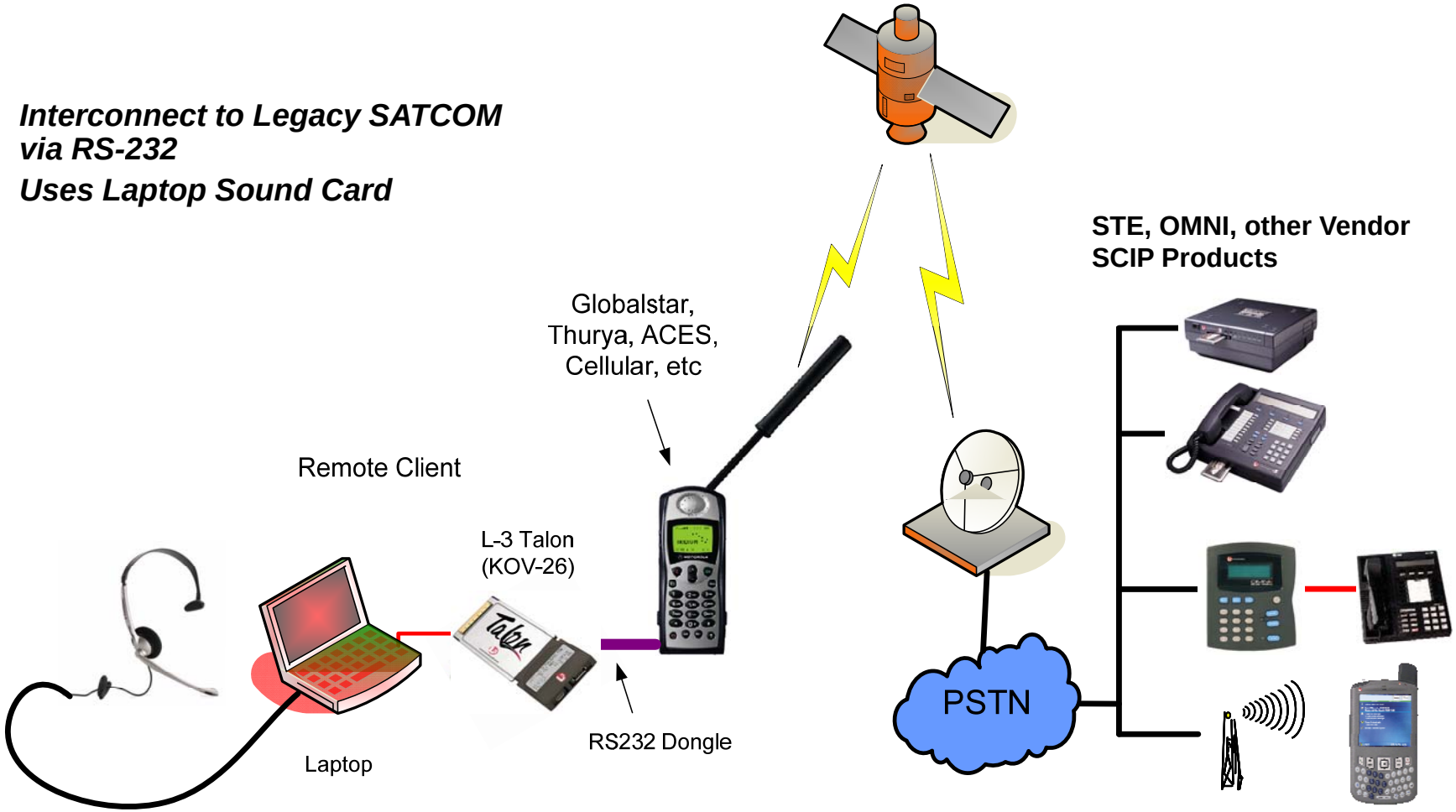


Typical Applications:
- **RAS applications**
- **Fax applications**

Uses V.90 Modem Communications Adapter

SCIP over Serial SATCOM

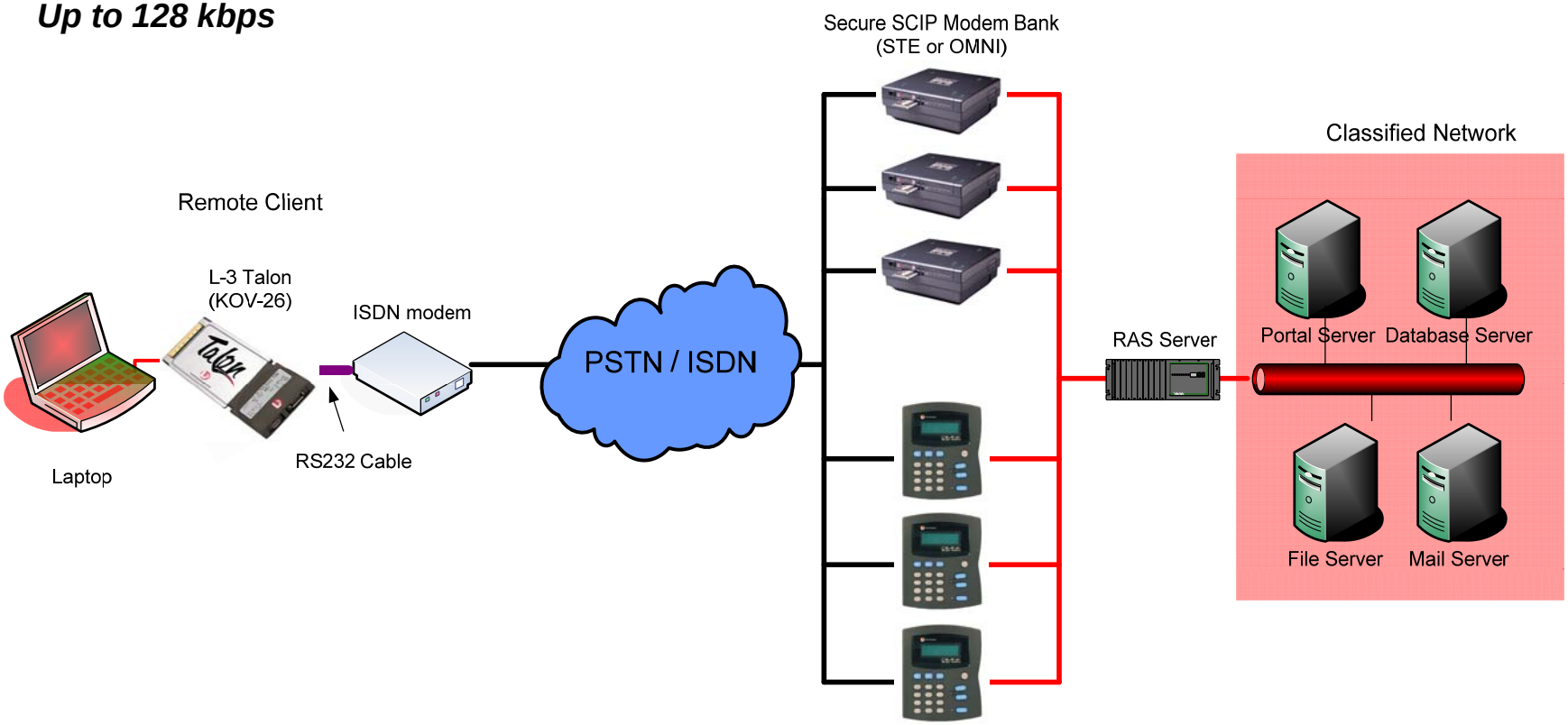
- ***Interconnect to Legacy SATCOM via RS-232***
- ***Uses Laptop Sound Card***



Uses RS-232 Communications Adapter

SCIP over ISDN TA

- ***Interconnect to ISDN Terminal Adapter via RS-232***
- ***Uses Laptop Sound Card***
- ***Up to 128 kbps***



Uses RS-232 Communications Adapter

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