



**WESTERN
DATACOM**

Neah Bay Presentation

Introduction

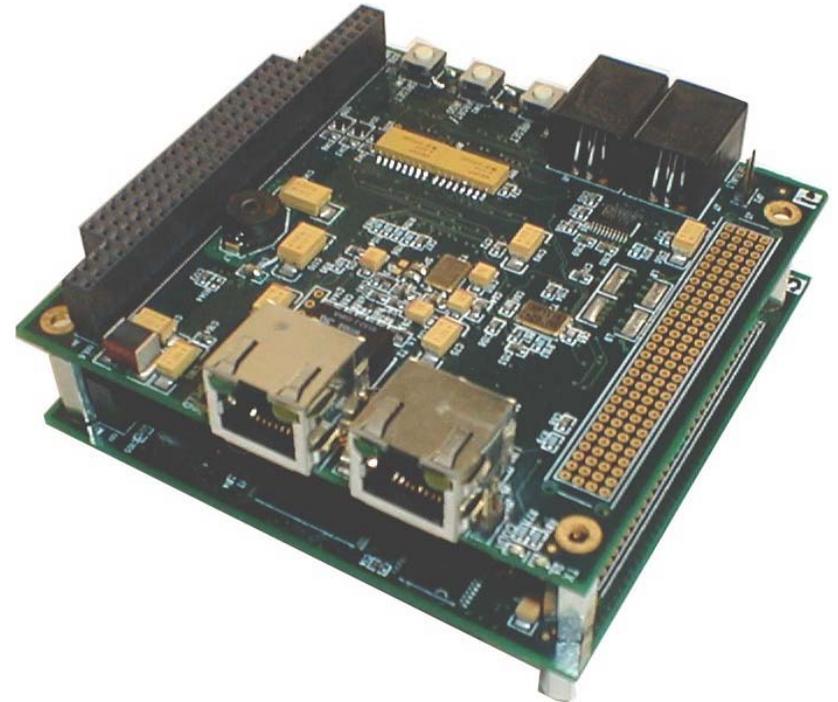
- Western DataCom has been in business for 20+ years providing data communications security solutions to the US Government, Commercial and Financial Institutions
 - IP Security
 - Wireless Security
 - Router Based Security
 - Remote Access Security

Security Issues

- 802.11b WEP Is Not Effective
 - Flawed Encryption Scheme
 - Weak Authentication
- Vulnerable to hacking
 - Eavesdropping, Anti-Replay attacks, DDOS and Man-in-the-middle attacks
 - Un-authorized network access
 - Identity theft, SSID and MAC

IPE-2M

- IPSEC/HAIPIIS encryptor
 - Tunnels
 - Encryption
 - Strong Authentication
- 168-bit 3DES, SHA1
- Miniature, Low Power PC/104 Design
- FIPS PUB 140-1 pending



HAIPE

- NSA Specification for IPSEC
 - Type 1 ESP Tunnel Mode
 - Data Integrity via SHA-1
 - Authentication with Firefly
 - Access Control
 - Dynamic Discovery
 - PPK and IKE

IPE-2M

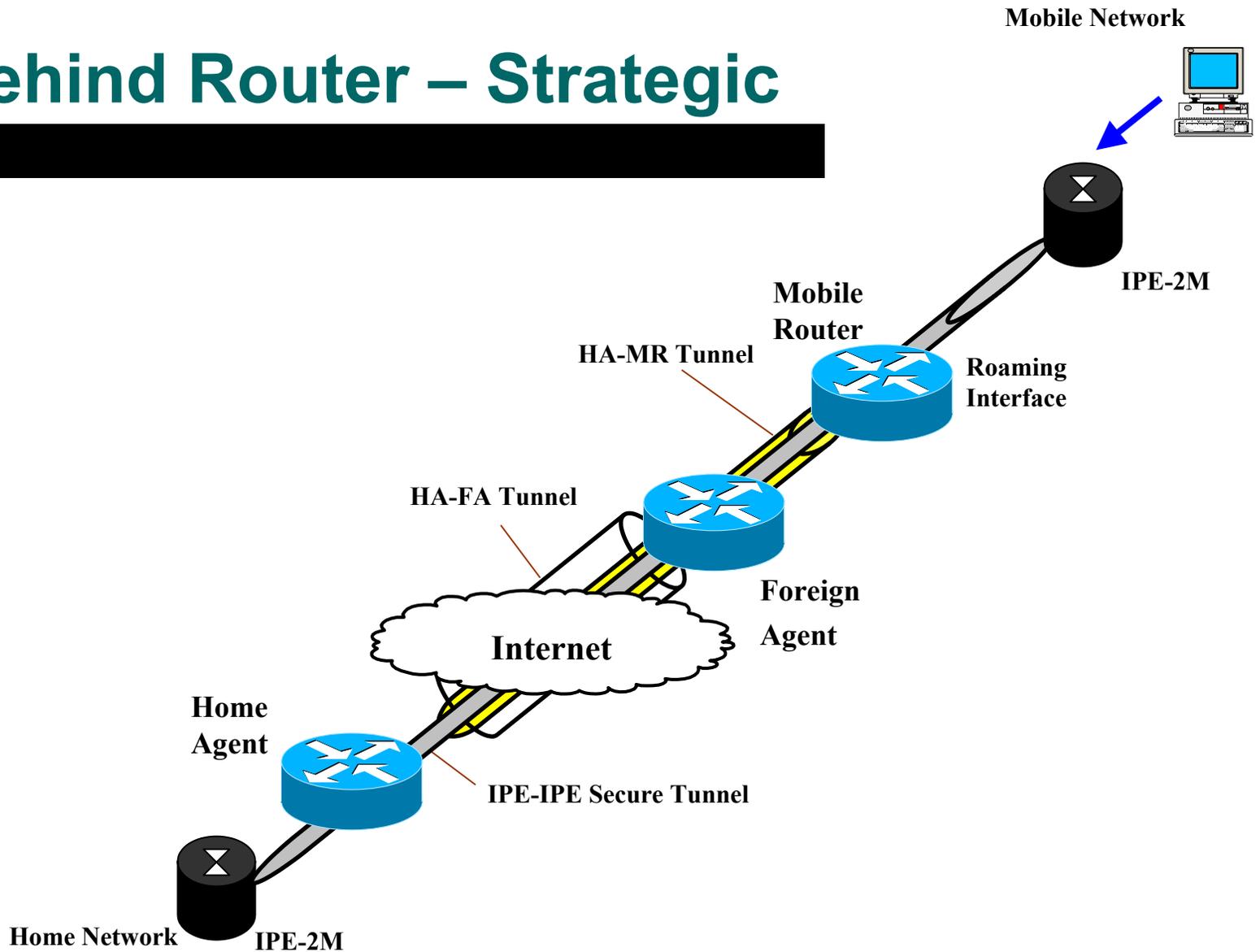
- Tactical and Strategic Operation
- Compact Size, Light Weight, Low Power
- HAIPIS
 - NSA Approved version of IPSEC
 - Type I Encryption
 - Type I Key Exchange
- Compatible with Cisco 3200 Series

IPE-2M Operation

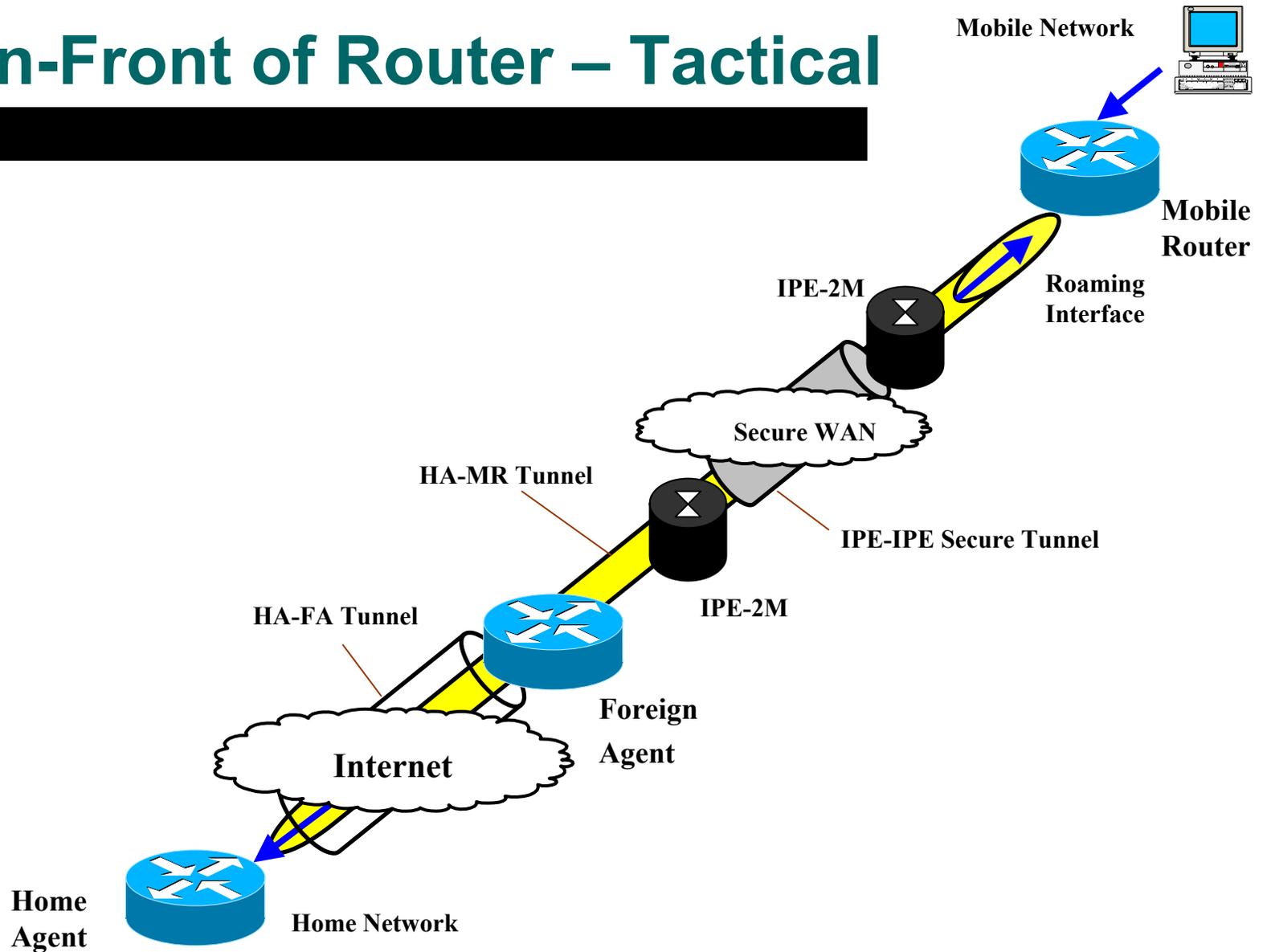
- Secures communications with IPSEC/HAIPIS, 3DES
- Application Independent – Data, Voice and Video
- Provides for many-to-many secure tunnels
- Will operate in mobile or stationary environments



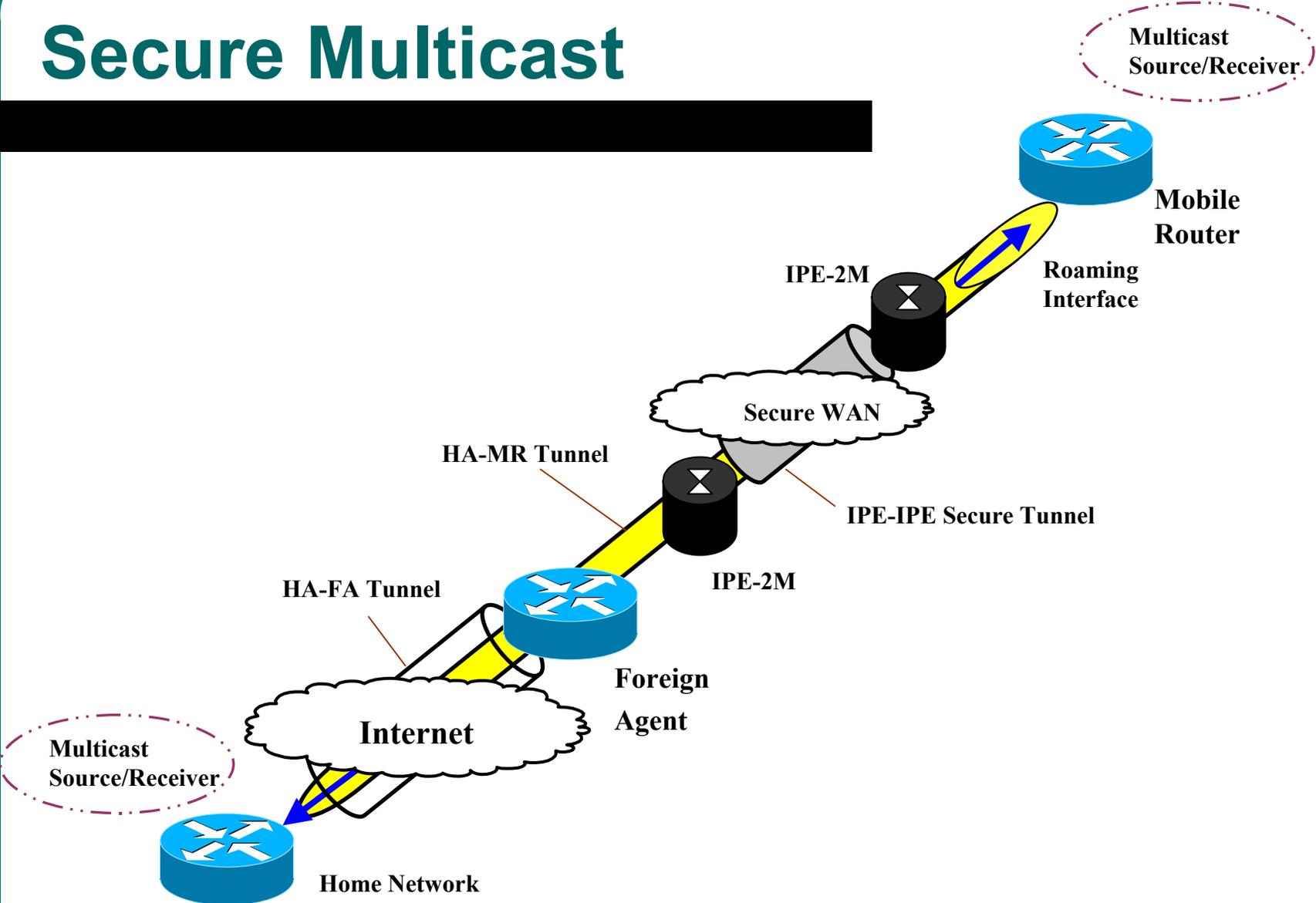
Behind Router – Strategic



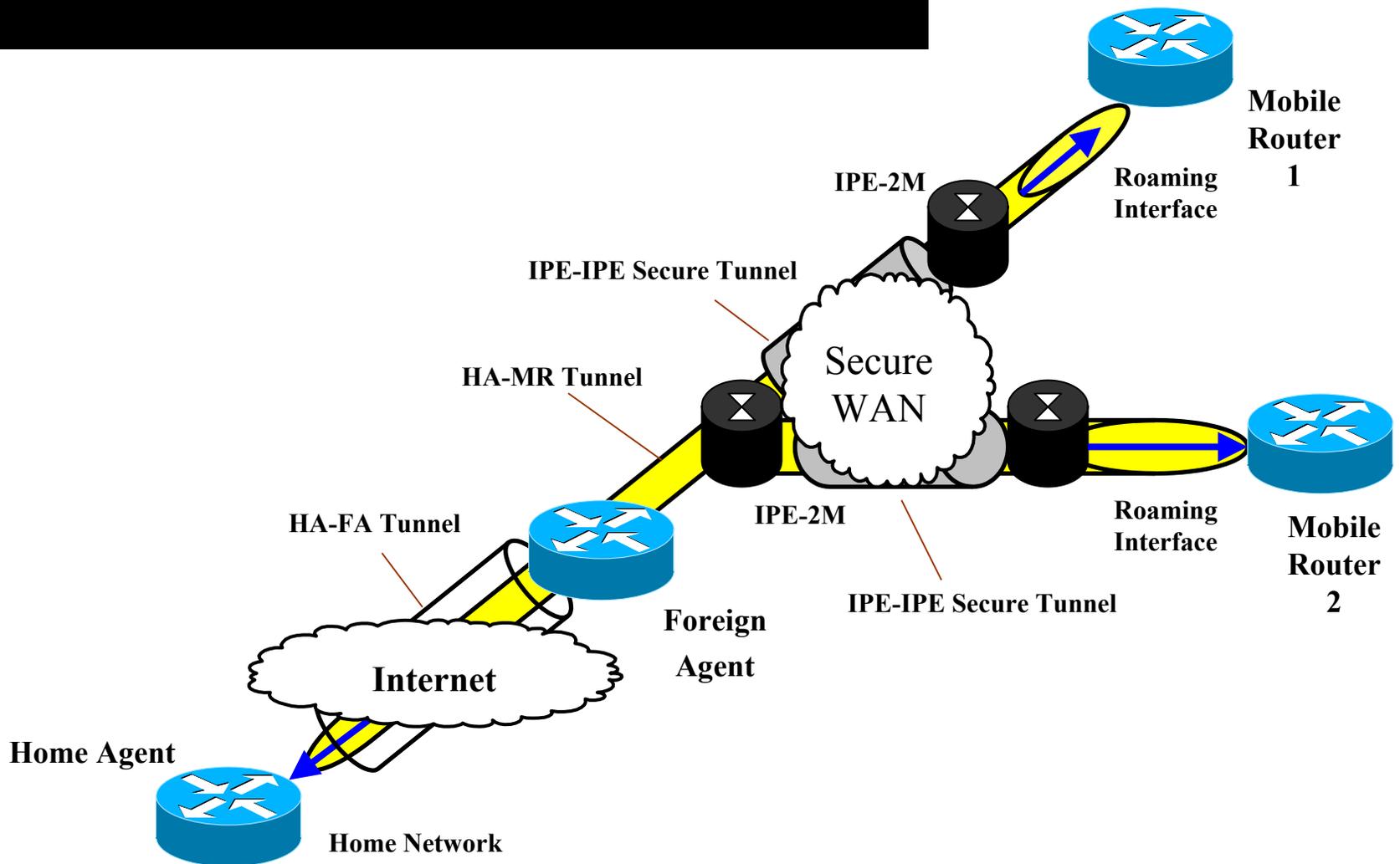
In-Front of Router – Tactical



Secure Multicast



Multiple Devices

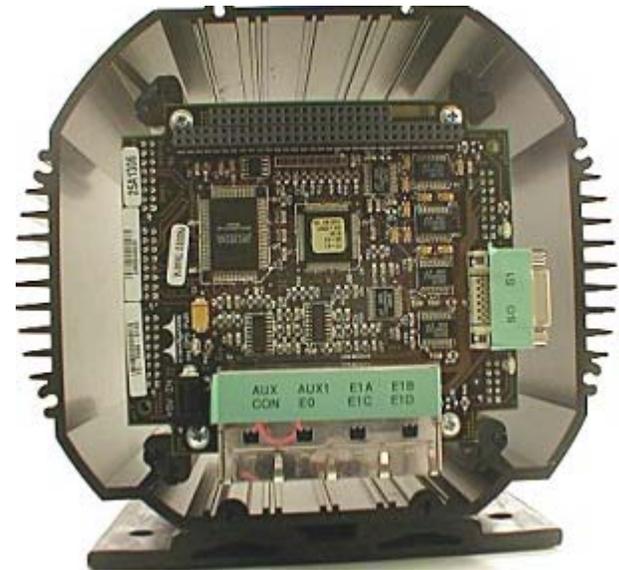


Environment Pro's & Con's

- Behind Pro's
 - Takes advantage of mobile IP's capabilities
 - Scalable
- Behind Con's
 - Routers visible on secure network
- In-Front Pro's
 - Routers are on protected network
- In-Front Con's
 - Scalability can be an issue in large scale deployment
 - Security Policies can become extensive

IPE System Solutions

- Wide range of turnkey system solutions to meet numerous requirements
- Complete end-systems
- Commercial or COMSEC



IPE Future

- 5 Mbps, Type II version
- 1 Gbps, Type I version
 - TBD Encryption Algorithm
 - Firefly



Data Communications Security