CISCO SYSTEMS

USB Flash and USB eToken Applications

USB Flash

- **First application for USB ports native to Integrated Services Routers**

- **Support Cisco USB Flash in 64, 128, 256MB**

- **Use USB Flash for images, configuration files, etc**

- **Can load initial config from USB Flash**

- **Cannot boot image from USB flash, only copy once router is loaded**

- **Requires IOS 12.3(14)T, any feature set**

USB eToken

- eToken is not a Cisco product, made and sold by Aladdin Knowledge Systems www.aladdin.com/cisco

- Cisco IOS® 12.3(14)T, requires a –k9 feature set

- eToken provides secure storage for data and files off of the router platform

  Must have a PIN to access files on the eToken

- Allows the deployment of Cisco routers without worry of comprising information stored in private NVRAM

- Storage area is <32KB

  Store VPN credentials

  Store Bootstrap configuration
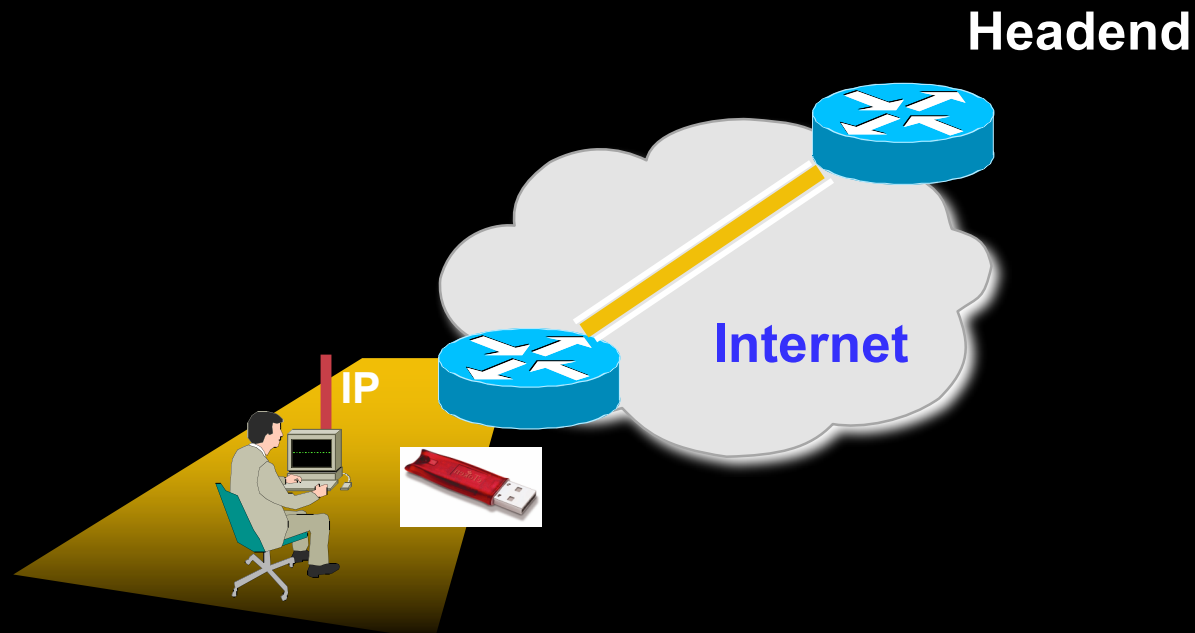
USB eToken Applications

- ## Portable Credentials

    Store VPN credentials on the eToken

    When inserted, the router pass the PIN to unlock the eToken and retrieve the credentials

    Router brings up IPSEC tunnel until eToken is removed, then tunnel comes down after configurable timeout
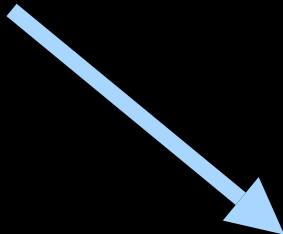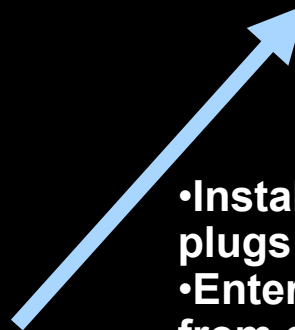
Headend

Internet

IP

Secure Provisioning

TMS

- **Order Router and eToken**
- **Provisioning Center receives eToken and loads configuration file**
- **Sets custom PIN on eToken**

- **Installation technician plugs in eToken**
- **Enters CLI to boot router from eToken config, including PIN**

- **Router is shipped directly to customer site**
- **eToken can be shipped to the customer location separately**

Provisioning the eTokens

- **Using CLI**

    Create configuration file

    Enroll with CA

    Reset PIN

    Unlock eToken

    Copy configuration to eToken

    Copy VPN credentials to eToken

- **Using Token Management System (TMS) from Aladdin**

    Create configuration file in text editor

    Reset User PIN and Admin PIN

    Manage tokens across the organization by SN

    Copy configuration and credentials files to eToken

USB Secure Token & Flash Storage

- Up to 2 USB 1.1 Ports integrated into all 3800, 2800, and 1800 models

- Initial support for Secure Token and FLASH Memory

   Provisioning – Secure configuration distribution

   Distribution and Storage of VPN credentials (pre-shared keys and/or certificates)

   Bulk flash for image distribution/storage as alternative to Compact Flash deployment
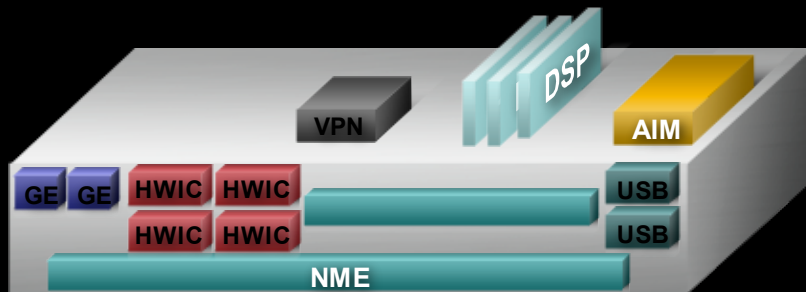
2 USB Ports on 3800, 2851, 2821, 2811, 1811, 1812, 871 Models
1 USB Port on 2801, 1841