MIF Considerations for LMAP

Margaret Wasserman

MIF WG Co-Chair

mrw@painless-security.com

MIF WG

- Multiple Interface Hosts (mif) WG
- Focus on hosts that are attached to more than one provisioning domain (provider of configuration information)
  - Mobile handset with Wi-Fi and 3GPP
  - Laptop on home network and VPN
  - PC with single physical interface, but provisioned by two ISPs (i.e. cable and DSL)

Multi-Interface Example

- One stack may have multiple Provisioning Domains, each with one or more Interfaces
  - Work laptop connected to 3GPP through phone, and two work-provisioned networks (remote office network and VPN)

TCP/IP Stack

Provisioning Domain

Interface

Provisioning Domain

Interface
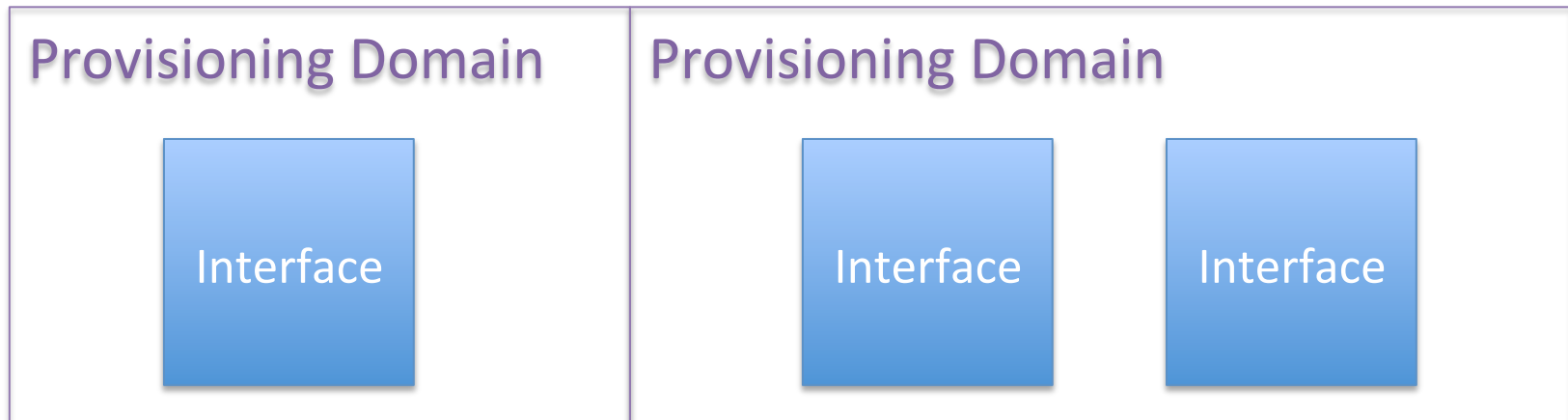
Interface

Single-Interface Example

- A host with one interface may be connected to more than one Provisioning Domain
  - Single interface PC with two home routers on the local network – Cable and DSL

TCP/IP Stack

Interface

PVD

PVD

LMAP Considerations

- Need to know that you are measuring what you think you are measuring
  - Choosing right Interface in multi-interface case
  - Choosing right Provisioning Domain in single-interface case