Phantom Works > Mathematics and Computing Technology



## **Potential Applications of the HIP at Boeing**

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## Background

- Mathematics & Computing Technologies
  - Part of the Boeing Phantom Works business unit
  - Supports all other Boeing business units with advanced technology R&D and consulting
- Computer Science Organization
  - Adaptive Systems
  - Advanced Design Systems
  - Advance Manufacturing Systems
  - Communications/Network Technologies
  - Distributed Systems Integration
  - Information Assurance

## **Motivation**

- Infrastructure Maintenance Costs
  - Multiple-sites, multiple-networks, many computers
  - Too much time spent maintaining ACL's, VLANS, VPN's, ...
- Security Perimeter Configuration
  - Would like to shrink our perimeter and move most computers outside
  - Use user identities and roles to enforce security policies
- Mobility
  - Deploying VOIP and wireless across the enterprise
  - Interest in wireless VOIP softphones
  - Interest in seamless roaming between wireless & cellular

## **CY'04 Planned activities**

- Activities:
  - Implement a HIP pilot test on a production subnet
    - Legacy network interoperability (DNS, DHCP, ...)
  - Develop enterprise-wide deployment strategy and plan
  - Develop a deployment cost/benefit analysis
- Areas of particular interest:
  - Integration of HIP namespace with DNS
    - Update speeds sufficient to support mobility
  - Integration with enterprise PKI
  - Integration with 802.1x enabled AP's
  - Identity-based policy enforcement at routers & switches
  - Vendor interoperability and support

