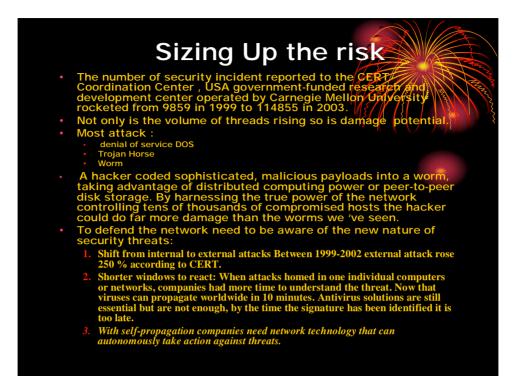
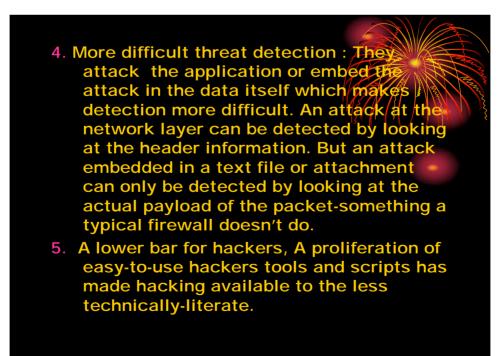


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 A broad range of effective security technology is readily available a significant number of companies don't take advantage of it.

- No matter how bad attack become.
- The invest in an IDS conduct vulnerability assessments hire and train people to monitor the network and take other action. What restrains them is the complexity
- If the network becomes self-defending that is it blocks attacks effectively and doesn't require highly trained security professionals
- The equation changes and they 'll make the investment.



- Network Admission Control (NAC). Tac and identity management which is use
- password. The cisco Trust agent which is integrated into the Cisco Security agent collect security state information from PCs and hosts such as the version of antivirus software and operating system patches. When the node attern
- patches. When the node attempts to connect to the VPN the cisco Trust Agent transmits the security state information to Cisco network access devices such as routers, switches, wireless access points and security application which enforce admission control, These device relay the security credentials to the Cisco secure access control server (ACS) which makes the decision to permit, deny, quarantine, or restrict based on customer-defined policy. Used IDS and behavior anomaly software with NAC
- Used IDS and behavior anomaly software with NAC becomes even more powerful.

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<ul> <li>The campus, the data center, full service branches and teleworkers have distinct security challenges.</li> <li>With strong defense in place many events can be detected and mitigated automatically.</li> <li>Security policies</li> <li>Security management : must incorporate tools that can digest the massive amount of data generated by multiple security devices on the network and provide uniform configurations and changes to</li> </ul>	End-To-End Defense in Depth
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### Campus Network

- The Campus network is not hom
- It is divided into several security model
   Some facing outward to public networks and customers
  - The rest serving internal corporate users
- Most organizations are alert for extern threats such as worm, viruses and DDOS attack, but internal hackers can do far more damage.
- They are harder to detect.
- This occurs when the network is crunchy on the outside and soft in the middle.
- An emerging campus security threat is grabbing, listening to, and spoofing voice over IP (VoIP) traffic.



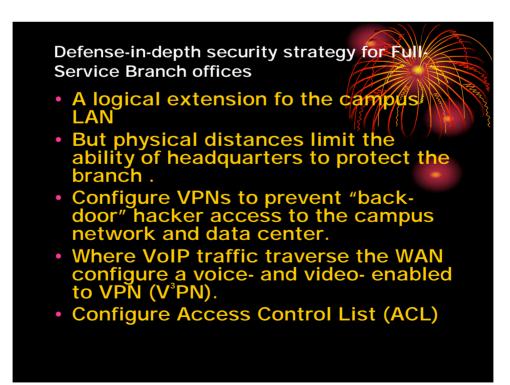
## Defense-in-depth security strategy for The Data Center(DC)

- The Heart of the IT infrastructure is the da
   Which houses the applications that keep org business. ical reso
- DC has the highest density of business-critic including Applications Servers Storage Network

- Network
  The need to be protected
  Compartmentalize the data center into security "zones" and define polices for each one

  Access rules
  Rules for how zones interact

  Use of Network-based and host-based IPS that watches every servers, switch and router, for suspicious activity then configure IPS to automatically reconfigure firewalls to block packets from identified malicious soruces.
  Use IP SEC (VPN)



### Defense-in-depth security strategy for Teleworkers

- Peleworkers
  Remote access service for home-based and module employees or teleworkers to increase productivity
  An issue with the traditional teleworking schemes is that teleworkers add significant uncertainly to an enterprise's security profile.
  They might connect directly to other networks such as the Internet pick up a Virus or worm and unknowingly transmit it to the enterprise network the next time they login.
  VPN solution.
  Enforce strict password rules.
  At headquarters deploy remote access gear behind the WAN edge router and firewall