



Technical Internet Security Policy

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Overview

- **Security products: ubiquitous, inexpensive**
- **Security Policy: ubiquitous, hard**
- **NIST policy draft: good start on policy components**

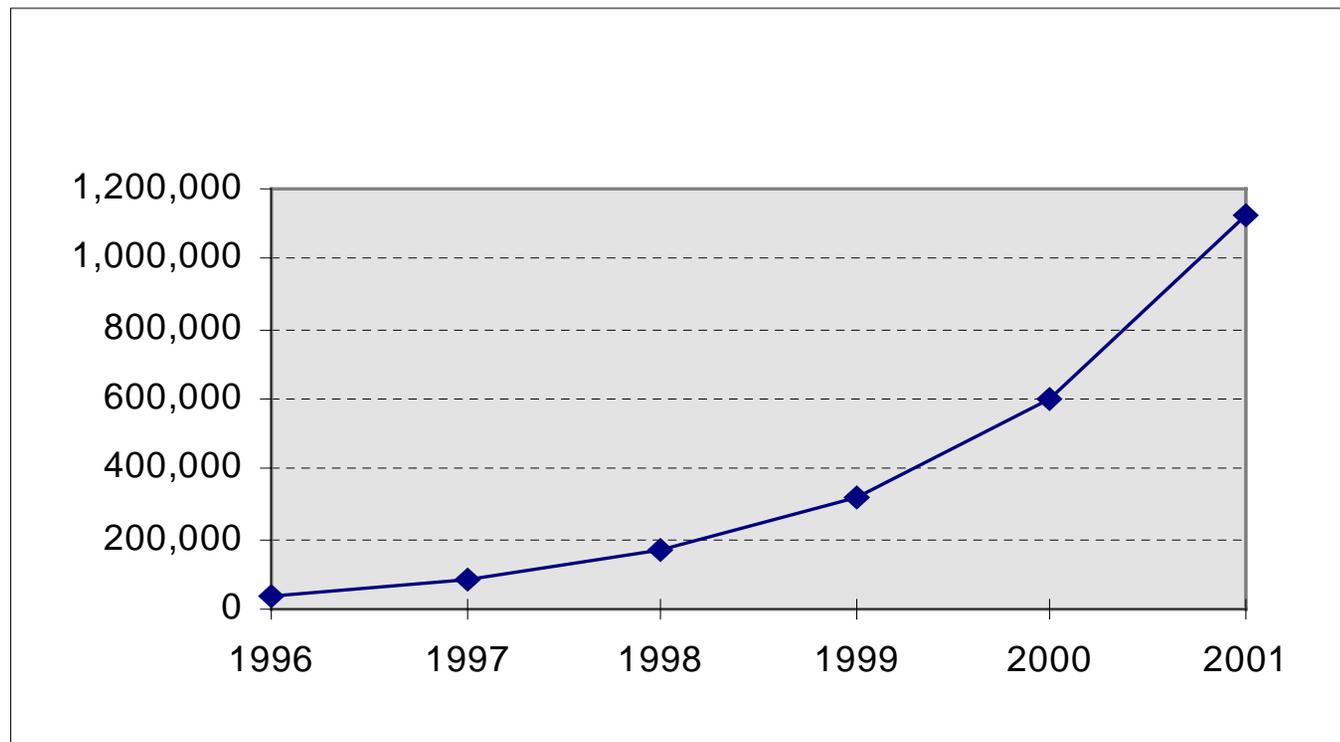


Security Products

- **Costs decreasing**
- **Options increasing**
- **Integration an issue**
- **Example: firewalls**



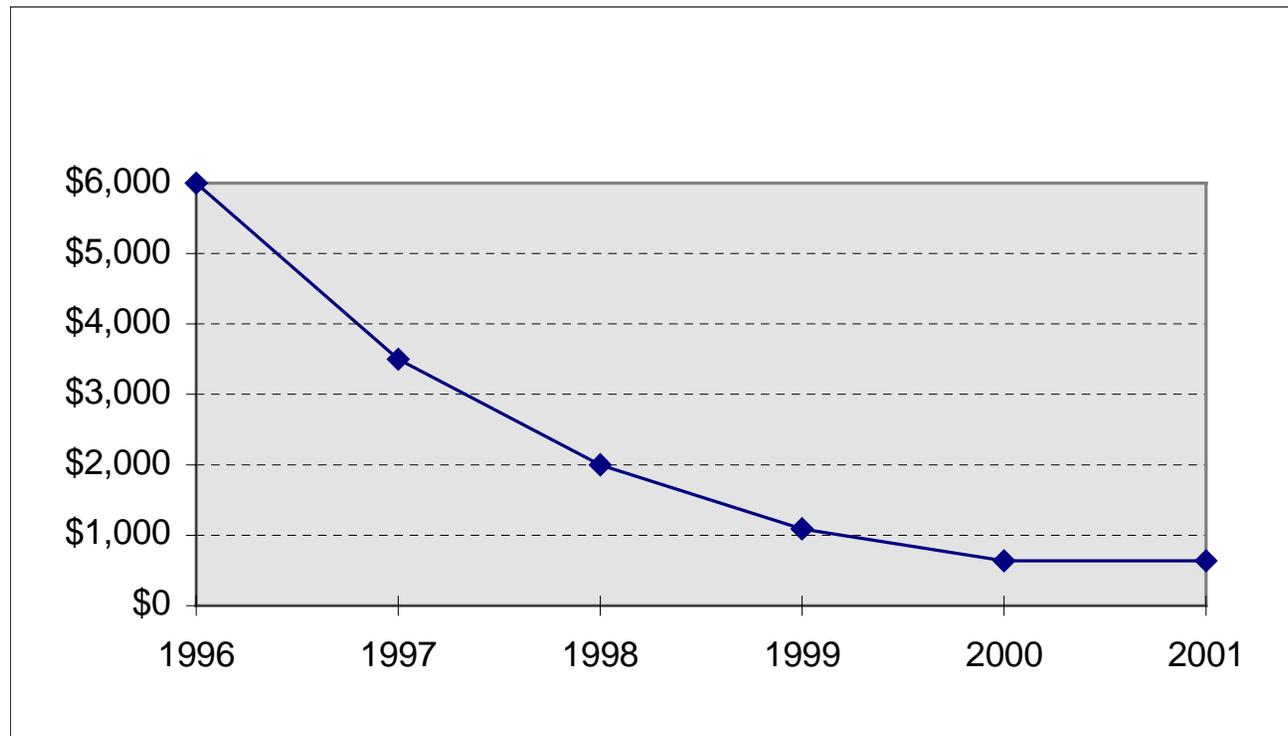
WW Firewall Shipments



Source: "The Worldwide Firewall Market: 1996-2001," IDC #13727, June 1997



FW Unit Price



Source: "The Worldwide Firewall Market: 1996-2001," IDC #13727, June 1997



More Options on the Way...

Network OS
Microsoft,
Novell

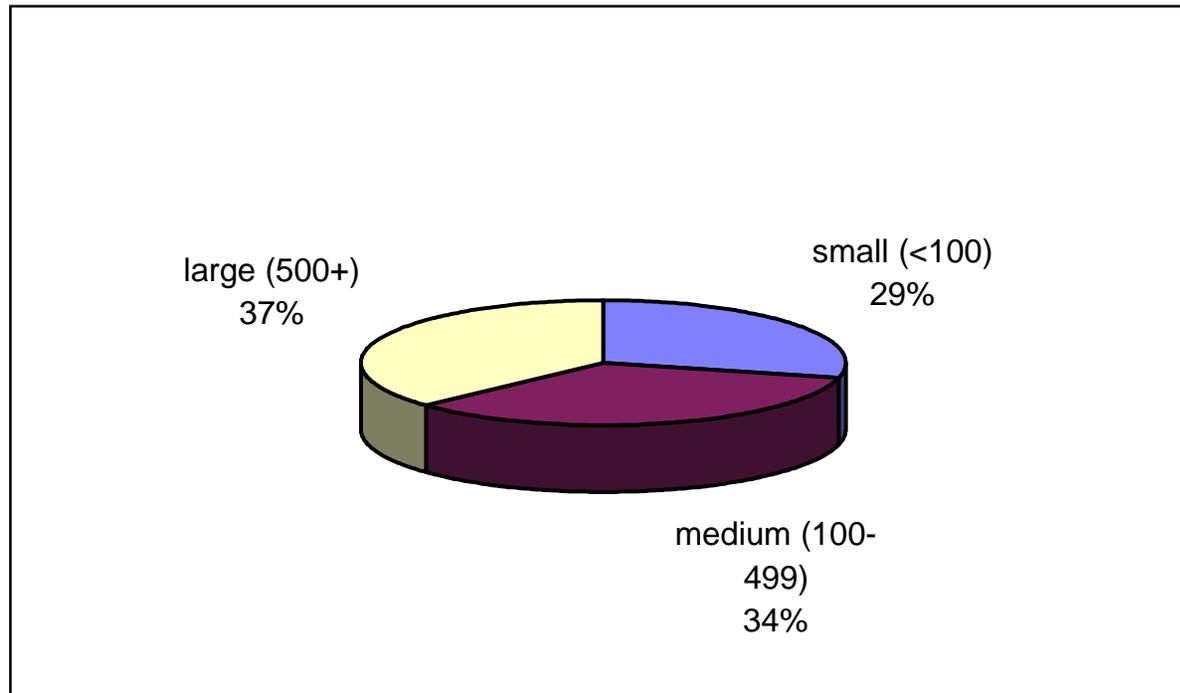
LAN Hardware
Cisco, 3Com,
Ascend

Utilities
McAfee, Symantec

Network Management
H-P, CA, IBM/Tivoli



Who's Buying (U.S. 1997)



Source: "The Worldwide Firewall Market: 1996-2001," IDC #13727, June 1997



Policy

- **Mandatory to have one**
- **Several low-cost templates around**
- **What's the problem?**
- **Example: WWW security policy**



IDC WWW Forum Survey

- **31 responses to questions about WWW security**
 - 14 respondents from Federal government
 - 12 from military
 - remainder from state/local, commercial
- **> 50% of respondents develop, implement WWW security policy**
 - Also, site administration, content development, other WWW policy



WWW Concerns

Ranking most important WWW issues

- ◆ **Developing security policy on WWW use**
- ◆ **Protecting WWW servers from external attacks**
- ◆ **Implementing security policy on WWW use**
- ◆ **Providing public services via WWW while protecting private data**
- ◆ **Authenticating users of your WWW apps**
- ◆ **Responding to security incidents involving servers/browsers**
- ◆ **Validate intended security of servers/browsers**
- ◆ **Keep up with rapid WWW SW upgrades**
- ◆ **Developing, testing safe active content applications**



Example: Active Content

- **How does your org's Internet/security policy address running Java, JavaScript or ActiveX on WWW browsers?**
 - **These are not allowed (7)**
 - **Allowed from internal WWW servers (4)**
 - **Allowed from trusted external servers (0)**
 - **Allowed from any server (0)**
 - ***Policy does not address (16)***
 - ***Don't know (4)***



Policy Components

- **Understandable to program staff**
 - Reflects day to day operations
 - Incorporates informal processes, information flows
- **Example-driven**
 - Sell up, down, across
- **Several sizes fit many**
 - Easier to edit than create



International Data Corporation

- **IDC founded in 1964**
- **Now in 41 countries, over 300 researchers worldwide (*200 U.S.*) with more than 3,700 clients**
- **Government Business Unit since 1979**
- **Local office in Falls Church, VA**
- **Research staff dedicated to Government sector**

