



Why is it so hard to solve this problem?

- PC initially not designed for the Internet
- Internet initially designed to share information not to protect information
- Legacy problem of an installed computer and software base makes design change difficult
- One attempt is "Trusted Computing Group" + Microsoft "New Generation Secure Computing Base"

The Attacker

- Insider problem
- Hackers carry out "remote" crime, difficult to find and prosecute (the Internet is global)
- Tools allow even less skilled hackers to launch a serious attack
- Sophisticated attacks difficult to identify
- Security associated with costs
- Not always an attacker, but an incident and human failure

SD3+C: Security Framework Secure by Design Secure design, architecture Reduced vulnerabilities Reduce attack surface area Secure configuration by default Secure in Deployment Communications Security Framework Course design, architecture Reduce attack surface area Secure configuration by default Configuration automation Prescriptive guidance Patch management Security Bulletins Transparency

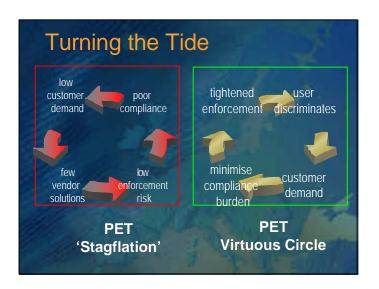
Tools?

- There is no silver bullet to security.
 Solutions involve technology,
 processes, and people.
- Different solutions to different people with different requirements
- The market is the best place to provide the appropriate tools
- Microsoft's security concept: Secure by Design, by Default, in Deployment

Privacy an increasing challenge

- The ability of individuals to control data about themselves
- ◆ The right of individuals to be left alone
- The need to protect private data against unauthorised access
- The potential conflict between public security and private data protection

Platform for Privacy Preferences (P3P) Is P3P a solution to online privacy? NO! P3P complements laws, PETs, seal programs, etc. P3P has weaknesses complexity, no enforcement mechanism default settings may not reflect local law/minimum protections ambiguous legal status (P3P policy vs. full privacy statement) P3P has strengths transparency – helps users discriminate privacy policies Deploying P3P on your website http://msdn.microsoft.com/workshop/security/privacy/overview/createprivacypolicy.asp



PETs in context Are PETs the solution to online privacy? NO! PETs supplement existing law and policy PETs are not sufficient for achieving privacy rights, but they may be necessary for optimal enforcement Millions of web sites Enforcement agencies not staffed to monitor all sites or conduct audits of even a small fraction Third party audits are very costly and may be overkill for small companies PETs can assist legal compliance in a variety of ways

