

## Management Challenges



## Why are there problems?

"A computer program does what you tell it to do, not what you want it to do." — *Greer's Third Law.*

### "3 Biggest Software Lies:

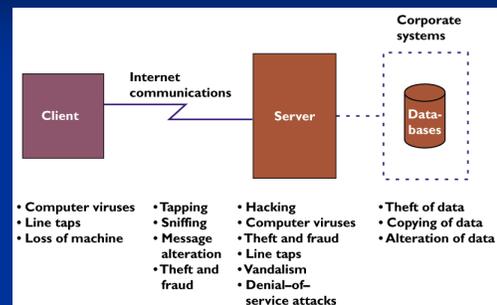
- The program's fully tested and bug-free.
- We're working on the documentation.
- Of course we can modify it."

## Ethical Issues

- Intellectual Property Rights (Pirating)
- Customer Privacy
- Employee Privacy
- Workplace Safety

In groups make company guidelines for these issues.

## Hacking



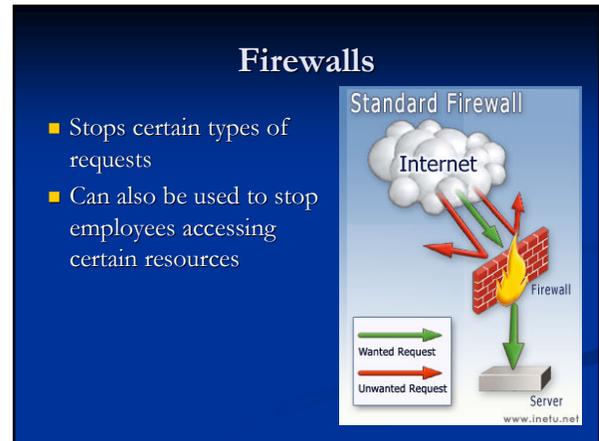
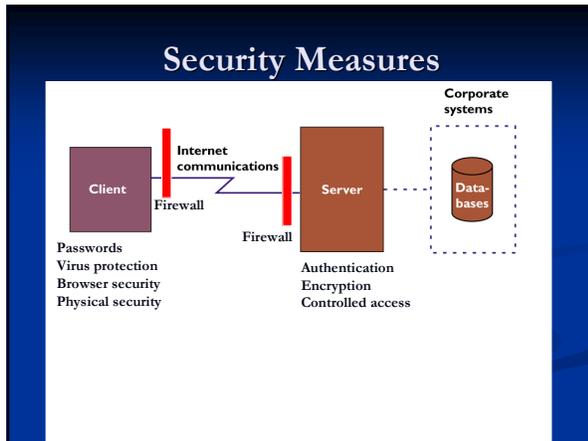
## Unauthorized Resource Use

- Playing solitaire
- General email abuses
- Plagiarism / Pirating
- Newsgroup postings
- Transmission of confidential data
- Hacking
- Non-work related downloads
- Leisure use of the Internet
- Moonlighting

## Stolen Data

- Even if the computer has been burned, flooded or thrown out of a plane. The data may still not be destroyed...
- You may not be able to get it, but a forensics lab can...





- ### Employee monitoring
- Use a Database for emails (Such as Outlook Exchange / Lotus Notes)
  - Allow Personal web mail (Hotmail / Yahoo)
  - Selective access to confidential data
  - Monitor Data access
  - Effective contracts & training

- ### Other Security Measures
- Backup Files
  - Biometric security / Smartcard access
  - Don't network sensitive PCs
  - Don't record sensitive data on PC.
  - Put a tracker on PCs

- ### Extreme Strategies...
- Destroy all files at 5pm every Friday.
  - Put a self destruct system into the PC.
  - Search people leaving the building
  - Allow everybody in the company to search any email...

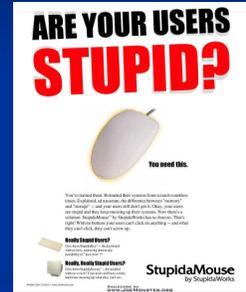
- ### What's a Mouse?
- Don't forget that people have to operate Computers
  - People may resist changes
  - People are suspicious of technology
- In groups decide what other problems there might be and how you can solve them...

## Strategies to Manage People

- Train them / Fire them
- Reassure them / Threaten them
- Add specialist IT personnel (or a secretary)
- Make the software easy to use.  
(Easier to use = harder to program)

## Strategies to deal with illiterate users

- Backup files for employees
- Limit access to PCs & printers (Windows XP management functions)
- Design software with additional error checking & workflow.



## Legal issues

- Libel
- SPAM – illegal in some countries
- Copyright/trademark infringement & IP violations
- Patenting process & defence

## Questions & Answers