

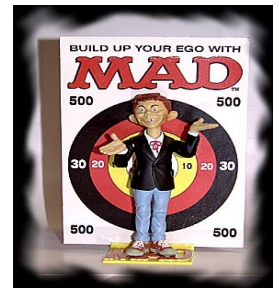
IQware Architecture

What We Do Differently
(The Right Technology at the Right Time)



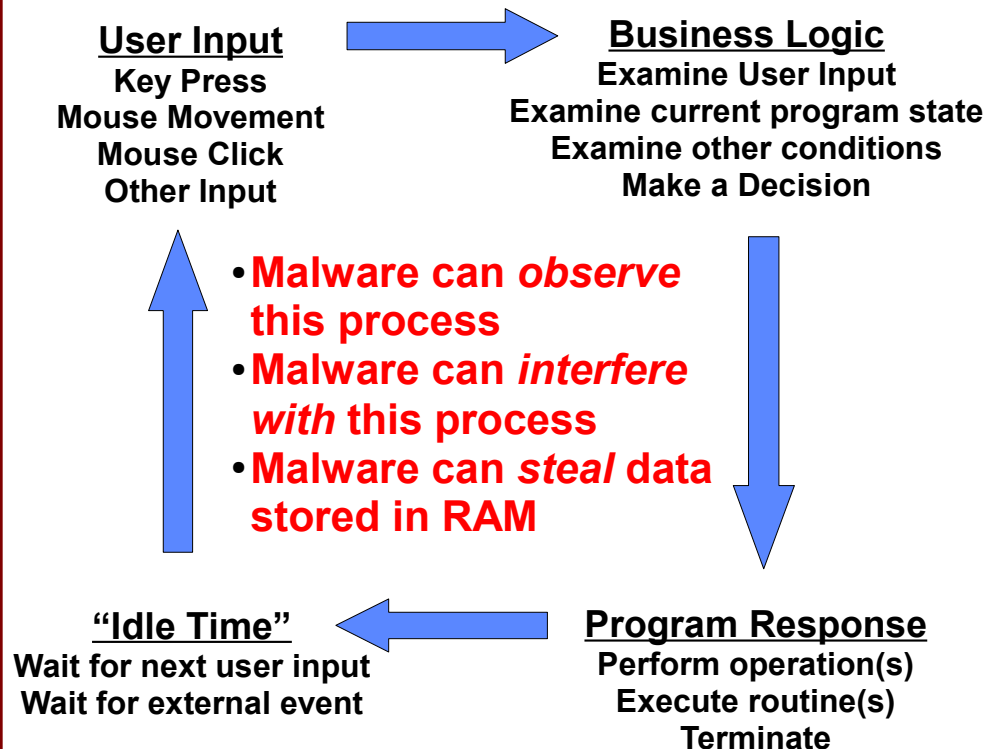
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(IQwareMTM.com, IqwareMarketing.com)
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Software Application Structure



What, Me Worry?

PC or PC Server



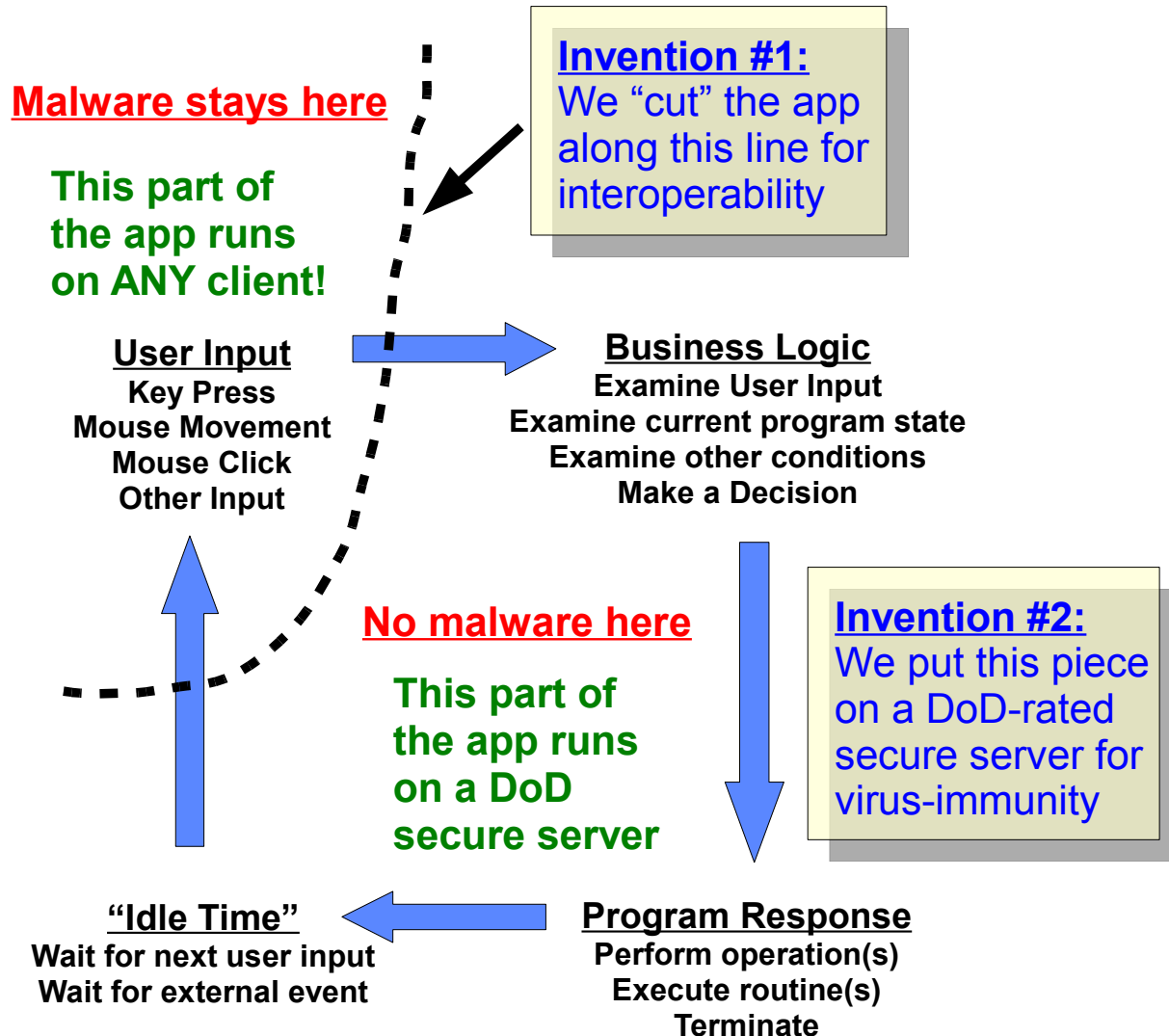
- Applications receive user inputs and make one or more decisions.
- Applications perform one or more operations in response to the decision.
- Applications then wait for the next user input and event.
- All this processing occurs on the desktop or laptop machine.
- Encrypted data is still decrypted on the PC and stored as 'plaintext' in RAM – where it's vulnerable to "spyware".
- "Spyware" and "malware" can observe and interfere with this process because it all occurs on the desktop or laptop.
- Malware can observe and 'steal' critical data.

IQware's New Approach

(Patented US #7,322,028)



No Worries, Mate!



- We separate the “user input piece” from the rest of the application so “malware” cannot “infect” the critical business logic and program operation.
- We use a TCB (Trusted Computing Base) that is DoD rated B2/C2 for the secure server.
- We can use any kind of laptop / desktop for the “user input piece” (Windows, Linux, Apple, PDAs, etc.).
- The client piece is very thin and is available as open source freeware (XLIB).
- The secure server handles all program logic, decision making and operation execution.
- All communication to/from client is encrypted.

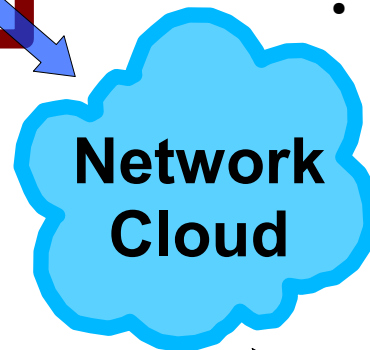
IQware's Secure Architecture

PC or PC Server

- **Malware remains here**
- **Only this machine is vulnerable.**

User Input
Key Press
Mouse Movement
Mouse Click
Other Input

- User events are encrypted and sent to the secure server.
- No sensitive data (e.g., UID or PWD strings) is in PC's RAM.
- Malware within PC cannot "infect" secure server.
- PC client is "thin" and uses XLIB which is available as open source freeware.
- Any PC may be used: Windows, Linux, Apple, UNIX-based, PDAs.



- Secure server controls all business logic and makes all application decisions.
- Secure server performs all application operations.
- Malware cannot affect secure server (non-Intel CPU ISA, DoD rated B2/C2).
- Optional CAPTCHA images can be used so text strings never are sent to the virus-prone PC client.

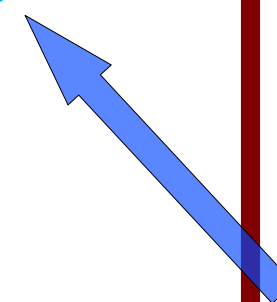
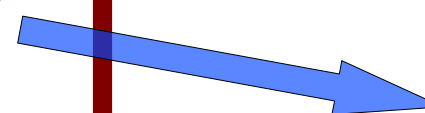
IQware Secure Server

- **No malware**
- **No interference**
- **No data theft**

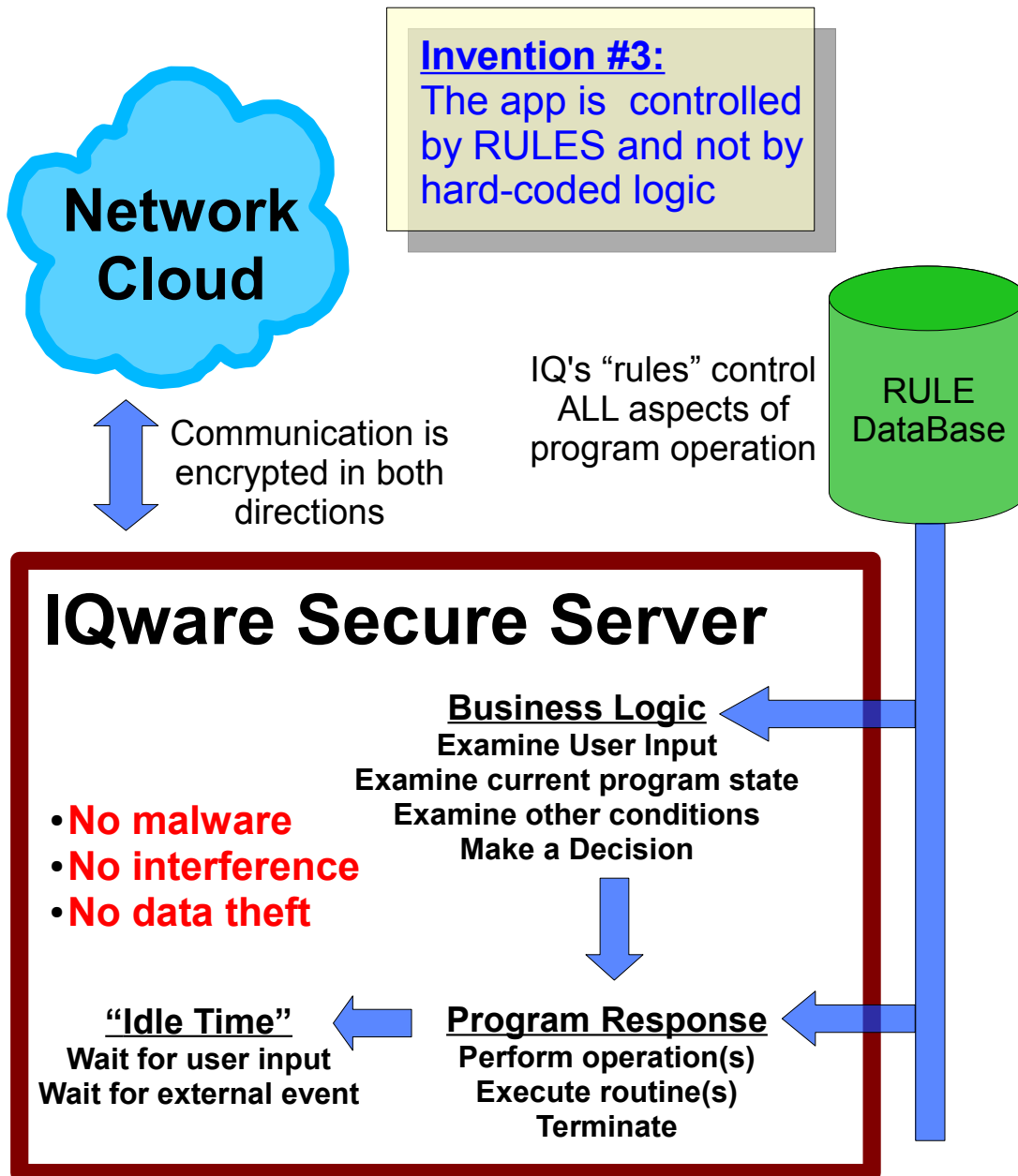
Business Logic
Examine User Input
Examine current program state
Examine other conditions
Make a Decision

Program Response
Perform operation(s)
Execute routine(s)
Terminate

"Idle Time"
Wait for user input
Wait for external event

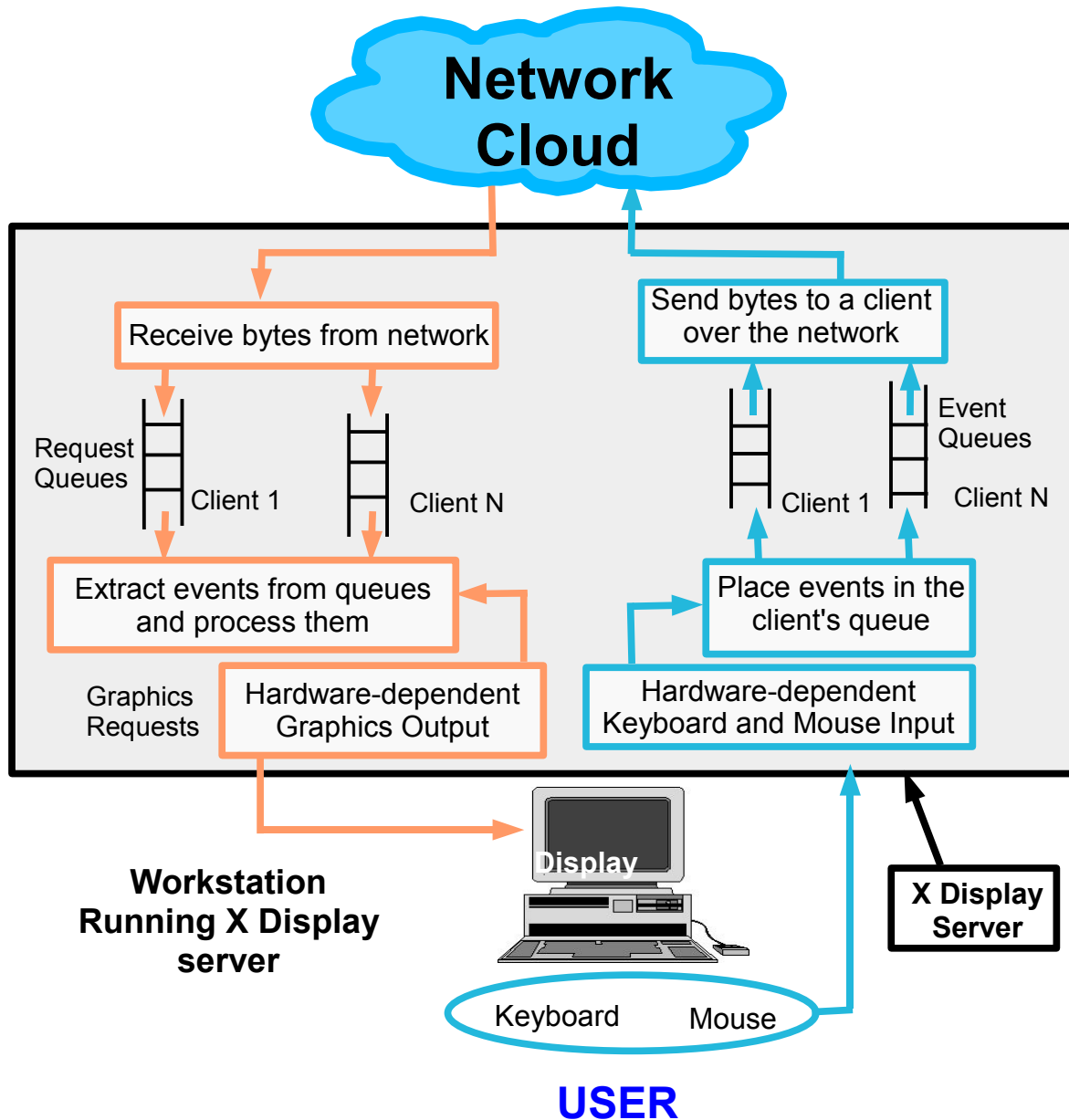


IQware's Rule-Based Invention



- IQware converted the application into a "Rule Processor" that executes rules.
- Rules control the business logic, program state, other conditions.
- Rules control screen appearance, menus, toolbars, other visual aspects of the application.
- Rules control all program decisions and operations.
- Rules control all database access, data formatting, data presentation and data display.
- Rules are configured graphically without any programming.
- Rules can be changed "on-the-fly" so new functionality can be added while the application is running!

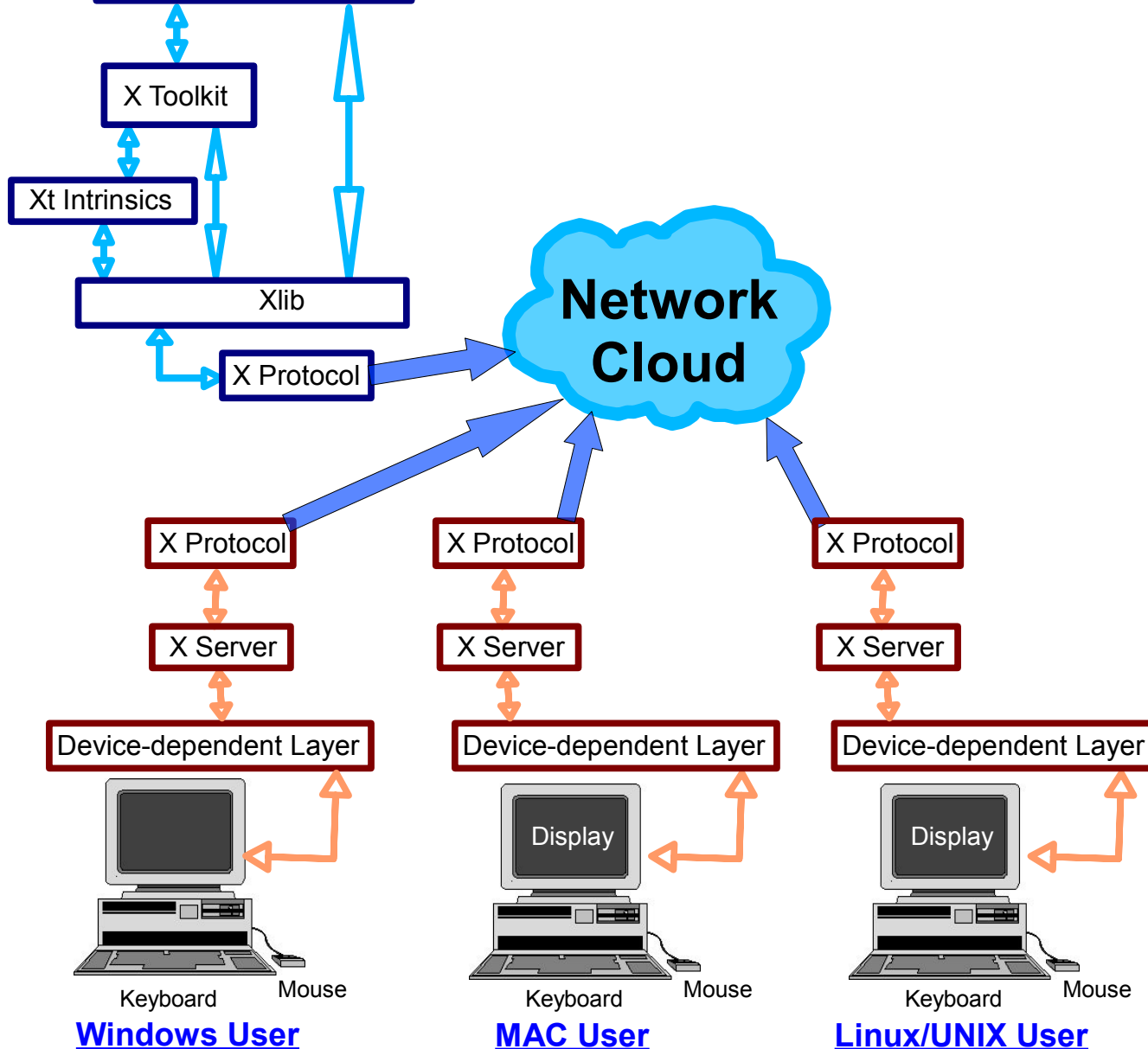
Client Side of IQware (X-Server)



- The X-Server actually runs on the client machine.
- The X-server is VERY thin – much smaller than a web browser and all of its "plug-ins".
- The X-server runs on all client machines, including Windows, Apple MACs, Linux (all varieties), Sun UNIX, PDAs, etc.
- X-servers are available as open-source freeware.



IQ Deployment Architecture



- IQware works with any client
- All network communication is encrypted
- Client side is open source freeware
- Client side is ultra-thin
- Rules can be changed at any time