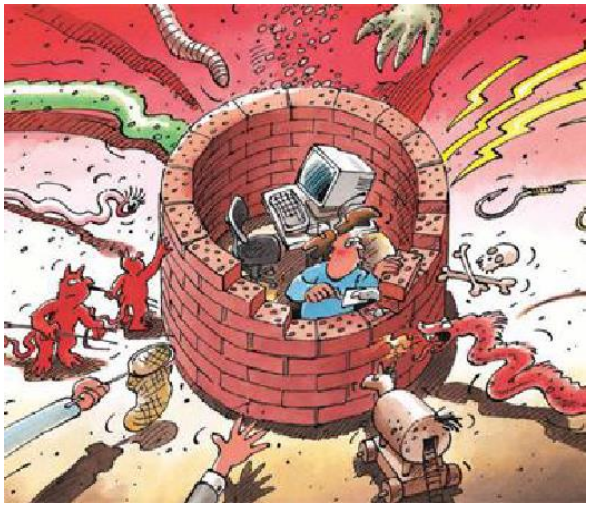
Advanced Malware Protection

Host Integrity Technology (HDF)

Abatis HDF is deployed on end point workstations and servers to enforce corporate security policy and provides detailed analysis and audit information. Abatis HDF stops malware infection and defends against hacker attacks.

- Defeats zero-day malware, rootkits, Trojans, APTs and viruses/worms
- Protects legacy and new operating systems from Windows NT4 to Windows 7
- Has a tiny software footprint (less than 100KB) that requires no ongoing updates
- Is extremely fast in operation
- Prevents exploitation of Alternate Data Streams (ADS)
- Protects all permanent storage on the device, thereby ensuring no threats can penetrate
- Is a non-signature-based protection for Windows and Linux
- Provides anti-malware and anti-hacker protection



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Abatis HDF provides rigorous cyber defence for organisations that are concerned about their privacy, Intellectual Property, financial data and reputational damage. Abatis HDF allows organisations to enforce an 'authorised software only' policy on their company's computers and protect against known and unknown threats.

The Challenge

Chief Information Security Officers today face a formidable challenge with increasing cyber threats. Best security practice requires ''defence in depth''. In practice, the options open are limited to security at the network level or at the end point. This decision is made difficult because the network boundary is difficult to define, due to modern cloud computing and bring your own device trends. Where there is a boundary, protecting the network can be very expensive in terms of both hardware and ongoing operational costs. Furthermore, the technology to defend the network is not robust enough to thwart all attacks and solutions need to cover all operating systems which require constant updates and patching. End point security software solutions can be problematic for the user and eventually will be very expensive to support. Abatis HDF takes a different approach to end point security that is highly effective, simple and reduces operational costs to a minimum.

The Abatis HDF Benefits

- Abatis HDF is a simple solution to a highly complex cyber defence challenge both in its deployment and ongoing operational costs
- Once Abatis HDF is deployed, the probability of a successful cyber-attack is low and incident management costs, clean-up costs, and reputational damage is significantly reduced or eliminated
- Prevents injection of malware through exploitation of Alternate Data Streams (ADS)
- Prevents RansomWare attacks, such as Cryptolocker
- Prolongs life of un-supported operating systems, such as XP, server 2003, etc. and removes need for risky and expensive upgrades
- As a ''fit and forget'' technology, Abatis has very little operational management cost normally associated with cyber defence systems

Some Abatis Clients:

Lockheed Martin

Network Rail

Euro Tunnel

Atos

Cox Powertrain

Sellafield Ltd

The Hong Kong Jockey Club

MTR

Atkins

GlaxoSmithKline

Eurogate Tanger

Blackthorn

Immediasite

Visicon

What is Abatis Host Integrity Technology (HDF)?

Abatis Host Integrity Technology (HDF) is an advanced technology that enforces system integrity and proactively protects against infection of computer systems by viruses, worms, key-loggers, root-kits, Trojan-horses and all manner of other malware.
This non signature-based technology defeats zero day and targeted attacks and uses a revolutionary new, patent protected method which does not use signature file updates, white-listing, heuristic analysis or sandboxing and therefore offers excellent zero day defence, very low maintenance overhead and no false positive or false negative results.
When deployed on supported Windows or Red Hat Linux platforms, Abatis HDF blocks malware infection in a simple but effective way. The same Abatis HDF technology has been proven to protect web servers against many hackers' attacks. Denying any unauthorised modifications to the system, hackers are prevented from achieving their goals, such as web defacement and malware insertion thus effectively neutralizing any hacking activity.

Defence Against Cryptolocker and Other RansomWare

RansomWare is one of the fastest growing methods for cyber criminals to extort money from their victims.
In the first six months of 2014 cyber criminals made over $100 Million in extortion, many of these victims had no option but to pay up or lose sensitive corporate information. Abatis HDF stops these attacks dead.

Protection for:

Windows Workstations

Windows Servers
(all from NT4 to Windows 7, including embedded and virtualised)

Linux

SCADA Systems

Process Control

CCTV Systems

How Abatis HDF Works

Abatis HDF is a host based software only solution that is implemented as a kernel driver on Windows platforms. It intercepts and mediates file write access to the computer's permanent storage e.g. local hard disk, network shares and removable storage devices such as USB stick and external disk. It is designed to help enforce system and file integrity without complex management overheads. It achieves this security objective by exercising robust access control over the writing of executable files and user-defined files (protected files) to a computer. It protects against unauthorised modification and denies unauthorised write operations. While HDF blocks unwanted executables by default, the HDF system administration can define files for integrity protection according to the computer's roles.
Ideally, Abatis HDF should be deployed on a newly installed 'clean' operating system. From this secure initial state (baseline), Abatis HDF will prevent malware infection then on. For most corporate environments, Abatis HDF is rolled out in stages and there may be extant undetected infections on systems – often referred to as Advanced Persistent Threats (APTs). Abatis HDF's unique operation and extensive audit log allows the malware to be identified. Abatis HDF can also reveal rootkit infections and facilitates the subsequent removal of such programs.

About Abatis UK Ltd.

Abatis is a UK based company established and part-owned by security professionals at Royal Holloway University of London. Abatis designs and develops security solutions to defend against the most sophisticated malware and advanced attacks by cyber criminals. For the past five years Abatis has supplied governments, financial and major corporations around the world with security solutions that have withstood the test of time against all forms of attack.

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