



VELOX

WHITE PAPER

SecureIT IT Infrastructure & Network
Monitoring System

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ABOUT US

We are one of India's premier IT Services and Solutions Company delivering "End to End" Integrated IT infrastructure, Network Infrastructure, Network Security & IT Monitoring Solutions to its customers.

Velox is an enterprise monitoring and cybersecurity company and has acquired global best processes & practices through an ISO 9001:2008 certification. The company has been recently selected by the world-class "CIO Review Magazine" as India's Top 20 Most Promising Business Intelligence Solution Provider 2017, an article on Velox has been published in "CIO Review Magazine," in their February 2017 issue.

PREFACE

SecureIT - IT Infrastructure and Network Monitoring System is enterprise-class network and resource monitoring system works on detection and prevention mechanism. SecureIT works on the following fundamentals of Information Technology Security.

- Proactive Monitoring of Entire IT Asset.
- Detection & Prevention - misuse of IT Asset.
- IT Asset Failure Management.
- Information Technology Security.
- Information Technology Knowledgebase.
- IT Asset Management.
- Change Management System.
- File Integrity System.

The entire IT infrastructure of an organization can be monitored & controlled centrally using SecureIT, which includes desktops, Printers, Switches, Scanners, Modems, Firewalls, Routers, Servers, External media, Internet use, and functions like copy, cut, paste & delete.

All the threats to IT Infrastructure can be controlled and monitor automatically through the SecureIT web console. The proposed failure of devices and applications can be predicated easily through SecureIT. The calls for all critical device failures can be automatically logged with a concerned vendor or IT Department.

This White Paper will explore the need for SecureIT product and its various modules that facilitate to monitor and prevent the increasing Cyber Crime & also Safeguard the Assets.

INTRODUCTION

Cybercrimes in the recent past include a major incidence such as:

The Citibank rip-off of US \$ 10 million was fraudulently transferred out of the bank and into a bank account in Switzerland. [Reference:<http://www.nytimes.com/1995/08/19/business/citibank-fraud-case-raises-computer-security-questions.html>]

List of data breaches and cyber-attacks in October 2017 – 55 million records leaked
[Reference:<https://www.itgovernance.co.uk/blog/list-of-data-breaches-and-cyber-attacks-in-october-2017-55-million-records-leaked>]

Several preventive measures had also been taken to curb the increasing number of cybercrimes. The introduction of the IT Act 2000 was enacted to boost the growth of computers and the Internet; to provide legal recognition to electronic records and e-transactions, and to prevent computer-based crimes. The problem in most cases remains unreported due to lack of awareness. Law enforcement agencies are not well equipped and oriented about cybercrime yet there is an immense need for such a unique solution to seize these cyber crimes and put an end to the era of CyberCrimes resulting in Safeguarding for the Assets.

SecureIT is a unique solution offered by Velox Solutions keeping in view the depth of the involvement of the computer facility in exploring new avenues of crime and its inference, SecureIT a powerful monitoring tool that aids to curb cybercrime and maintain a serene environment to defined domains. SecureIT showcases the power of technology and the true utilization of technology for restoring peace in society by keeping a check on the various cyber crimes like: -



1. **Financial crimes:** This would include cheating, credit card frauds, money laundering, etc.
2. **Cyber Pornography:** This would include pornographic websites; pornographic magazines produced using computers (to publish and print the material) and the Internet (to download and transmit pornographic pictures, photos, writings, etc).
3. **Sale of illegal articles:** This would include the sale of narcotics, weapons, and wildlife, etc., by posting information on websites, auction websites, and bulletin boards
4. **Online Gambling**
5. **Intellectual Property Crimes:** These include software piracy, copyright infringement, trademark violations, theft of computer source code, etc.
6. **Email Spoofing:** A spoofed email is one that appears to originate from one source but actually has been sent from another source. Email spoofing can also cause monetary damage.
7. **Forgery:** Counterfeit currency notes, postage and revenue stamps, mark sheets, etc can be forged using sophisticated computers, printers, and scanners.
8. **Cyber Defamation:** This occurs when defamation takes place with the help of computers and/or the Internet.
9. **Cyberstalking:** Cyberstalking involves following a person's movements across the Internet by posting messages (sometimes threatening) on the bulletin boards frequented by the victim, entering the chat-rooms frequented by the victim, constantly bombarding the victim with emails, etc.

These incidences show the utter need for such a system for monitoring cybercrime to obtain information necessary to detect, prevent and track down computer intrusions and individuals responsible for them. SecureIT would also in turn assist the Defense Department in the battle against the increasingly sophisticated attacks against its information systems and networks, including significant and widespread attempts to penetrate systems with targeted, socially engineered e-mail messages in a technique known as spear phishing. SecureIT is basically a proper monitoring and preventive system, which would dedicated bring down the cybercrime rate effectively.



SUMMARY FEATURES

Summary Features of SecureIT

SecureIT is ideal security and life-support tool, which aids in maintaining track of user activities in a computer with a facility of sending regular updates to authorized individuals. This information can assist in defining policies for information exchange, to defining and understanding the psychology of criminals operating. The unique feature of tapping individual keystrokes gives an added advantage of monitoring the conversation right from MSN messenger to a normal e-mail. This feature of SecureIT can revolutionize the way monitoring and security are being done.

SecureIT installed in the computer, allows the administrator to monitor the activity of the user. It also keeps track of individual files and the time of access and changes made to them. This monitoring could be done even through mobile phone, as the user needs to log on to the website which could be done both by mobile as well as computer. It shall provide also provide an analysis of the user's work style of using the computer and along with the amount of time devoted to accessing individual URLs, files. This monitoring technology could trace any illegal activities happening in computer systems i.e. e-communications, monitoring, filtering, and control solution enabling effective management of Internet usage in desktop and server-centric environments. SecureIT monitors web browsing, file transfers, news, chat, Internet Messaging, e-mail, and web-mail, including all encoded attachments. SecureIT can both monitor e-communications based on keywords and phrases, thereby protecting against the loss of confidential information, transmittal of unacceptable content, and access to inappropriate websites. Insensitive environments, SecureIT can also be used to restrict user or group access to only approved external and internal sites.

MODULES

MODULES UNDER SECUREIT

- A. NETWORK MONITORING SYSTEM:
- B. SERVER MONITORING SYSTEM:
- C. DESKTOP MONITORING SYSTEM:
- D. ADD ON MODULES – DATABASE –VM – IIS –DHCP :
- E. CYBER SECURITY OPERATION CENTRE – SOC
- F. IT HELPDESK:



- G. CORE KNOWLEDGEBASE:
- H. IT ASSET MANAGEMENT:
- I. FILE INTEGRITY:
- J. CUSTOMER RELATIONSHIP MANAGEMENT (CRM):
- K. CHANGE MANAGEMENT SYSTEM:
- L. SCANPLUS ANTIVIRUS:
- M. ATM TERMINAL SECURITY:

CONCLUSION

Protection of critical information infrastructure is of prime importance to national security, economy, public health, and safety and as such, it has become imperative to declare such infrastructure as 'protected' in order to restrict its access. SecureIT would help to superimpose several gray areas that exist within the law and would help in enforcing the prevalent IT Act in an entirely different form. Cybercrimes have increased in vast numbers SecureIT is an appropriate solution to it.

By means of this document, we would bring safety to the assets/resources allocated. This safety & safeguard activity is carried in conjunction with parameters defined. Real-time measures with the support of alert are being mapped to the action taking the team. Various MIS reports with defined analysis are being shared with stakeholders. The health of the assets/resources is being monitored at regular intervals of time. This solution is an aid to the investigation & vigilance team to drill down on specific activity. The product is flexible in incorporating new cyber laws with any additional measures. We enable to block the assets outside the resources allocated; free access to outside devices such as external hard drive, pen drive is prohibited.

In today's information age every enterprise needs solutions that can help them accelerate their work process in a secure way and at the same time following all the standards and regulations. We specialize in providing solutions in almost all verticals of IT. Starting from providing solutions to Network administration and management and also provides solutions for data security and storage.



Velox has continuously been working as a leading Products and Services company, catering innovative security products in Information Technology in INDIA.