



Securing Computers with Absolute Certainty

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Valt.X Cyber Security – Ensuring Device Integrity

In the face of unprecedented levels of successful cyber attacks, Military, Government, Critical Infrastructure, Enterprise, SMB and Consumer internet users are seeking to ensure their PC's - desktops, notebooks, tablets and servers - are secure and uncompromised - mitigating cyber warfare, cyber crime, cyber espionage and cyber terrorism threats.

Valt.X Technologies, a high technology company, has developed semiconductor and software based technologies to secure desktops, notebooks, tablets and servers - with absolute certainty - ensuring device integrity - 40 Issued Patents.

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Valt.X is proposing that all computers in the Country be secured as a matter of National Defense and Public Safety to mitigate Cyber Warfare, Cyber Crime, Cyber Espionage and Cyber Terrorism threats

- ✓ **Mitigate Cyber Warfare threats** - preventing computers within the country from being compromised and being used against us as "enemy soldiers behind the lines" to attack from within
- ✓ **Combat Cyber Crime**
- ✓ **Protect the Critical Infrastructure** against cyber war and cyber terrorism threats
- ✓ **Secure businesses against Intellectual Property theft by cyber criminals and rogue foreign governments** - keeping jobs at home and growing our economies
- ✓ **Protect our citizens against Identity Theft** - Cyber Criminals are targeting citizens and especially the elderly for identity theft
- ✓ **Protect our Military, Governments, Businesses and Citizens against Cyber Espionage**
- **Valt.X has developed patented software & hardware technologies to secure computers and tablets with absolute certainty** - eradicates or neutralizes 100% of all malware – known or new - **40 Issued Patents**
- **Market leading Anti-virus/Endpoint Security Technologies have not been effective for several years.** Test after test, breach after breach, underscores that current widely deployed market leading security products are ineffective in protecting against today's advanced malware
- **Mandiant**, arguably the #1 Cyber Threat Research Company in the world, has completed testing of Valt.X products. **"Valt.X successfully eliminated 10 different persistence mechanisms used by 12 different malware samples effectively eradicating and/or neutralizing all tested malware"**

"A panel of experts told U.S. senators at a hearing of the Senate Committee on Commerce, Science, and Transportation that the United States would be defeated in an all-out cyber war." CNET

What Valt.X Does

Valt.X is a vital new entrant to the endpoint computing device security market, competing with a broad array of Anti-Virus/Anti-Spyware/Endpoint security software suite providers such as **Invincea, Symantec, McAfee, Trend Micro, Kaspersky Lab, ESET, SOPHOS, AVAST, AVG, Malwarebytes and Threattracker Vipre amongst others**. These anti-virus/anti-malware/containerization software suites do not work - are unable to stop hundreds of thousands of new malware attacks each day and also have a high rate of failure in stopping known malware from infecting computing devices. **These market leading products exhibit "failure rates often exceeding 50%" Gartner – Endpoint Protection, June 2011.**

Valt.X has developed a new security architecture - Secure Locked Devices (SLD) - Our software, 'Valt.X Cyber Security for Windows', and semiconductor, 'The S Chip', security products, lockdown and secure computing devices with absolute certainty, eliminating 100% of all malware attacking the computers boot drive, securing sensitive data in a hidden, encrypted secure data drive, facilitating patch management and substantially reducing computer maintenance and management costs. **We make computers absolutely secure and resilient.**

Valt.X will compete in the computing market places supplying Cyber Secure Notebooks, Tablets, Desktops and Servers, with the Valt.X S Chip silicon solution or Valt.X Security software integrated and supplying our semiconductor and software to OEM's.

Valt.X will compete in the Cloud market place- developing Cloud infrastructure - Servers, Storage and Diskless Workstations - and Data Protection technologies.

Anti-Virus/Anti-Malware Software Does Not Work:

Malware has changed - rendering leading Anti Virus and Anti Spyware software suites absolutely ineffective in preventing computing device infections:

- **The New York Times:** in late January 2013 the [New York Times revealed it had been the victim of China-based cyber attack campaign](#), which had gone on undetected for at least four months. The Times reported that attackers had installed at least 45 pieces of custom malware on its network, **only one of which was detected** by the Symantec Corporation antimalware products installed on its systems
- **Mandiant - China Army Attack report:** In mid-February 2013, The Mandiant Intelligence Centre, released an unprecedented report exposing a multi-year, enterprise-scale computer espionage campaign by APT1, believed to be the 2nd Bureau of the People's Liberation Army (PLA) General Staff Department's (GSD) 3rd Department, which is most commonly known by its Military Unit Cover Designator (MUCD) as Unit 61398. Report Highlights: APT1 has systematically stolen hundreds of terabytes of data from at least 141 organizations. APT1 focuses on compromising organizations across a broad range of industries in English-speaking countries. APT1 maintains an extensive infrastructure of computer systems around the world. **Mandiant has agreed to test Valt.X products.**
- In the **GHOSTNET Spyware case**, high profile computers in 103 countries were infected. **Leading anti-malware software products were only able to detect 11 of the 100 attack vectors used 400 days after the attacks occurred– AN ASTONISHING 89% FAILURE RATE**
- [Consumer Reports' Annual State of the Net Report](#) states that a projected 58.2 million American adults had at least one malware infection that affected their home PC's features or performance in the past year. The cost of repairing the damage from those infections was nearly \$4 billion, the report says
- **In a Malware Test conducted by AV-Comparatives in March-June 2013 every Anti-Virus/Internet Security Suite tested was compromised multiple times. The sample tests used consisted of only 1972 pieces of malware. According to McAfee in their 2013 First Quarter Threat Report:** There are over 128 million malware samples in the McAfee Database; Over 14 million new malware samples in Q1 2013 alone; Over 150,000 new Rootkit samples in Q1 2013; There were over 1.7 million new Autorun malware threats (Automatically runs from USB sticks)

"Eighty Six % of adult internet users have taken steps from time to time to avoid surveillance by other people or organizations when they were using the internet. Despite their precautions, 21% of online adults have had an email or social media account hijacked and 11% have had vital information like Social Security numbers, bank account data, or credit cards stolen" Pew Research Center - Sept 2013

Valt.X Cyber Security Works with 100% Absolute Certainty:

Secure Technologies International., a leading cyber security supplier to the Canadian Department of National Defence, tested Valt.X products over several months and writes: *"Valt.X certainly has an effective solution to assist with the integrity of any system it is installed upon. In all cases their products simply provided incredibly robust system security and resiliency, with rapid, total system recovery... We are very impressed ... and view the technology as a foundational security advantage for protecting systems".*

Valt.X has developed a new security methodology and enhancement to computer architecture making endpoint computers immune to malware infection. Valt.X Cyber Security ensures computers remain "Infection and Contamination Free", providing "Multi-level Data Protection" including "Invisible Data Drives" and "Encryption" and facilitates "Rapid Patch Management" with an "Instant Rollback/Restore" feature. The technology is deployed via Valt.X Cyber Security for Windows, an OS Deep Kernel level software and via The S Chip, a semiconductor based product.

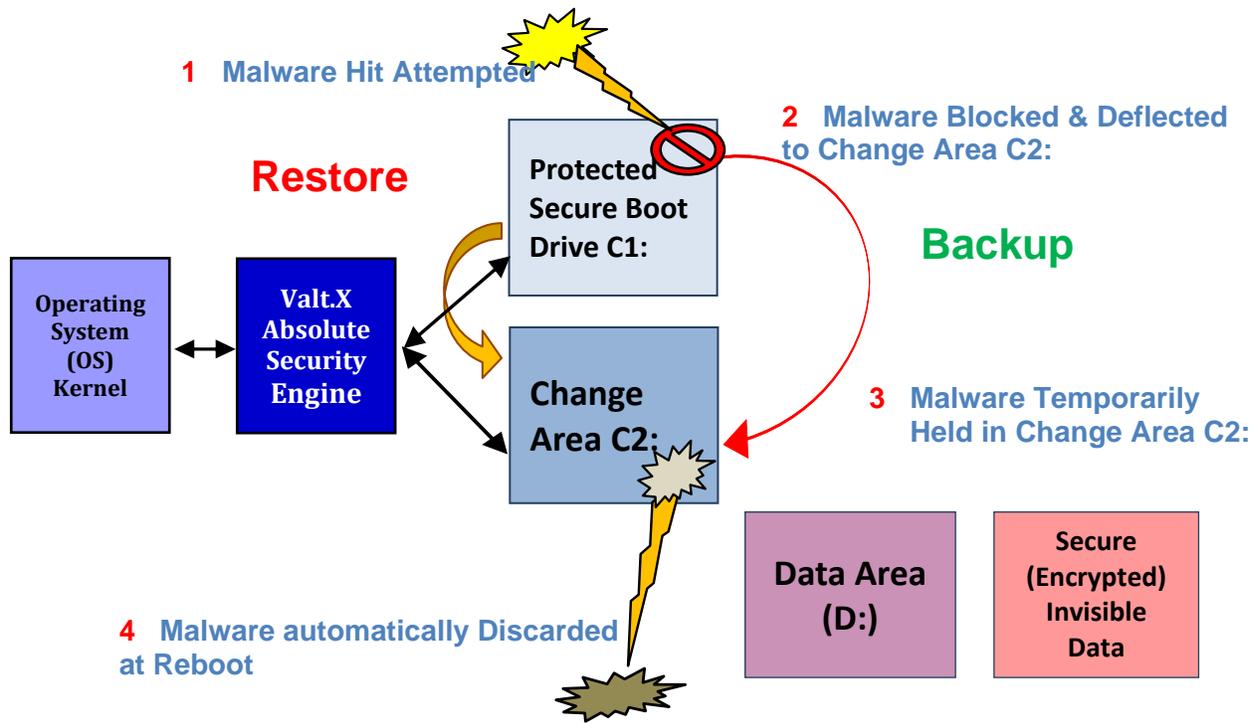
New malware threats emerge each day by the hundreds of thousands making traditional anti-malware security *approaches ineffective*. *Valt.X Cyber Security takes a totally different approach to computer security via a proactive **absolute defense** rather than the failed traditional approaches of checking for incoming malware signatures, attempting to determine all bad behavior or white listing of "good" applications.*

Implemented in endpoint computers either via the Windows Kernel based 'Valt.X Cyber Security for Windows' or the 'Valt.X S Chip' the revolutionary Valt.X Cyber Security computer security architecture creates an impenetrable write-protected system image on the computers main boot drive keeping the computer contamination and infection free. VAS captures, deflects and automatically discards all malware, unauthorized implants and unauthorized software modifications. Not depending upon malware signatures, file behavior monitoring, or white listing, the revolutionary VAS security architecture ensures 100% protection against all attacks.

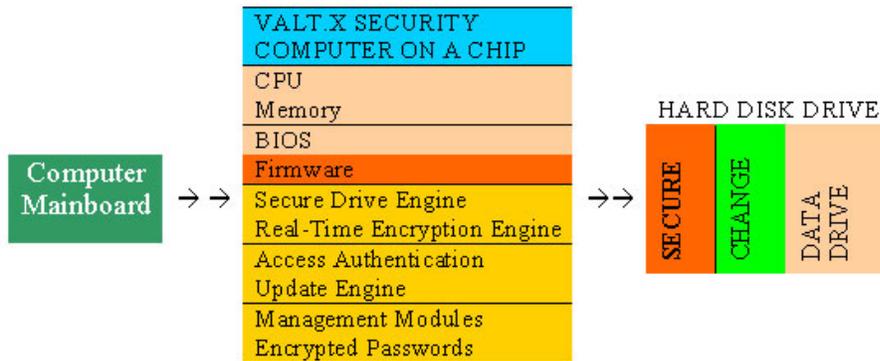
KEY FEATURES/BENEFITS:

- **A New Security Architecture** – Valt.X Cyber Security does not depend upon detecting malware – a task that no company can ensure in today's Threatscape with hundreds of thousands of new malware strains being released on a daily basis. The Valt.X Architecture provides Secure Locked Devices (SLD) - physically eliminating and negating attacking malware
- **Boot System Drive Protection** - the Valt.X secured system drive is 100% protected from all malware infections (known or unknown) – users may surf the internet without fear of being infected with malware – all writes to the Valt.X protected system drive, including any attempted malware or unauthorized writes, are automatically deflected to a temporary change area and eliminated when the computer is restarted keeping the computer clean and secure
- **Data Protection** – Invisible (Hidden) drives and keyless full drive encryption protect against data theft – a USB Security Key or Password allows authorized access - The Secure Data Drive is present when the Security Key is inserted/Provided and "Disappear" when the key is removed
- **Worry Free Patch and System Updates** - an instant clean bit-level rollback feature allows Application and OS patches and upgrades to be tested and implemented worry free
- **Reduced Patch/Maintenance Needs** - Given that the Valt.X Cyber Security technology is protecting the system against all malware compromises, administrators may choose to implement patch updates on a more convenient schedule
- **Solid State Drive (SSD) Protection** - SSD's are susceptible to write burn with some SSD chips burning out after just 500-1000 writes. With the Valt.X Dual Drive implementation most writes take place on the analog drive protecting the SSD from write burn. In addition, since writes are generally placed on the analog drive, SSD maintenance is not needed

Valt.X Products Illustration of Blocking Malware



Valt.X Product Concept



Valt.X Products



Valt.X Cyber Security for Windows Software:

(Endpoint computer security software - USB Authentication Key and Software Only versions): Valt.X Cyber Security for Windows' is a deep Bus level software based implementation of the Valt.X technology; Ensuring that computers can instantly recover from malicious attacks with absolute certainty. Viruses, spyware, hacker attacks and other computer malware are automatically eliminated. Additional security protections include full disk Encryption and invisible data drives to prevent data theft. Patches and System updates can be tested and instantly rolled back; Supports both 32bit and 64bit XP, Vista, Windows 7, Windows 8, 10 and Server OS; Three versions are available - Standard, Special & Premium (Password, USB Key & Dual Drive).



The Valt.X S Chip (Security Semiconductor):

(OS independent endpoint computer SATA ultra security chip) - ensures that computers can instantly recover from malicious attacks with absolute certainty. Viruses, spyware, hacker attacks and other computer malware are automatically eliminated. Optional full disk encryption to prevent data theft; pre-boot access authentication prevents unauthorized system access while an Instant Rollback feature facilitates Patch and Upgrade testing with an instant clean rollback; Available to OEM and PC Manufacturers.



Valt.X Desktop/Server Secure Cards:

PCI-e security card based on the Valt.X 'S Chip' - Adds the Valt.X 'S Chip' technology to industry standard desktop and server computers facilitating Cyber Secure Desktops and Servers - OS Independent -Up to 8 Multi-Boot Images.



Valt.X Cyber Secure Notebooks:

Valt.X 'Delta Dawn' Cyber Secure Notebook with the S Chip onboard and Valt.X 'Apollo 11' (SSD and Analog Dual Drives) Cyber Secure Notebooks - production ready



Valt.X Cyber Secure Tablets & All-In-One PC's:

under development - Q1 2014.



Valt.X Cyber Secure Desktops and Servers:

Industry standard Desktop and Server Computers from leading manufacturers such as Dell, Hewlett Packard, Lenovo and Acer, implementing either the Valt.X Secure Card or Valt.X Cyber Security for Windows software products.



Valt.X Cyber Secure Cloud Computing:

Valt.X is developing Cloud infrastructure - Servers, Storage and Diskless Workstations - and Cloud Data Protection technologies based on our patents. **Valt.X Cloud System Security** - Patented Valt.X Protected/Change Drive Architecture implemented on Cloud Storage.

Valt.X Cyber Security for Windows (Client Editions):

Product Features	<u>Standard</u>	<u>Professional</u>	<u>Special</u>	<u>Premium</u>
	\$59.99	\$89.99	\$99.99	\$119.99
Lockdown and Secure your computers Boot (C: Drive) with Absolute Certainty - Eliminates 100% of Attacking Malware - Known or New - Surf any Website - Open any Email without fear of APT compromise	Yes	Yes	Yes	Yes
No Signature Updates needed - Zero Maintenance - set it and forget it	Yes	Yes	Yes	Yes
Password Protected Hidden/Invisible Secure Data Drive with Keyless Full Disk Encryption - Know that your Data is Secure			Yes	Yes
Worry Free Patch & Update with Instant Bit Level Rollback		Yes		Yes
Dual Drive Support - SSD and Analog (Premium Dual Drive Edition)				Yes
USB Authentication Key instead of Password available (Premium USB Edition)				Yes

“Recent hacks on some of the world’s most sophisticated technology companies have showcased another kind of cybercriminal, one that includes foreign governments and organized crime cartels, unconstrained by social norms and backed by nearly unlimited resources.” Fox News Network

MANAGEMENT

NAME	POSITION
Dennis L. Meharchand	President, Chief Executive Officer and Director
Kwok Yan (Tony) Leung	CTO, EVP Research and Development and Director
Lee R. Allen	SVP, Worldwide Consumer Sales



Dennis L. Meharchand – President and CEO: Mr. Meharchand has served as President and CEO of our company and on our Board of Directors since its inception. Prior to founding Valt.X, Mr. Meharchand served as CEO, Choice 2000 Computers, a regional manufacturer of computer systems primarily serving the K-12 Education sector. In 1986 Mr. Meharchand founded Information Systems Architects to develop PC based Voice Mail Systems.



Kwok Yan (Tony) Leung – CTO and VP Production and R&D: Mr. Leung has served as CTO and VP Production & R&D of our company and on the Board of Directors since its inception in February 2001. He has extensive experience in engineering and development of embedded computer systems and production control. He has successfully filed and completed over 40 patents and leads the companies R&D teams. Prior to co-founding Valt.X Technologies, Mr. Leung founded AIC Systems, a Canada based wholesaler of computers, AIC

Communications a developer of telecommunications access servers and KYL Software House a developer of enterprise software.



Lee Allen, Senior Vice-President Worldwide Sales: A Results-driven Senior Sales, Marketing and Operations Executive, with over twenty five years of successful leadership experience in Fortune 500, turnaround and start-up technology environments. **As Vice President, Consumer Sales – Americas, Symantec** Mr. Allen was responsible for retail sales and distribution operations in North America, and all lines of consumer business in Latin America. During his Symantec tenure, he drove overarching initiatives reversing inherited 3 year declines in North America retail revenue of 41% and 38% market share to 12% revenue increase and 10% market share gains despite the “Great Recession”. Mr. Allen was a contributing member of the global sales, marketing and product leadership team steering the \$2B Consumer

Business Unit at Symantec. Lee brings broad sales, strategic and operational experience in software, hardware and services business models to Valt.X Technologies, having led award-winning teams at Apple, Inc., Compaq, Fujitsu, Magellan GPS, and Vonage Holdings. Mr. Allen’s stewardship includes leading teams comprised of over 100 members with direct annual revenue responsibility beyond \$3B.