FireEye and ST Engineering Electronics

FireEye SmartGrid Platform and ST Engineering Electronics File Cleansing Solution

HIGHLIGHTS

- Provides an ntegrated solution at a glance

- Flexible solution that provides multiple layers of file cleansing (i.e. True File Type Detection, Content Disarm, Dynamic Analysis

- Secure solution to transfer "cleansed" files from untrusted to trusted networks through unidirectional flow of traffic

- Patented MVX technology to detect the zero-day exploits, unknown malwares and attacks

In this current world of conducting business, there is a daily need of sharing and collaboration of information (office documents, data files like Autocad drawing, videos etc) with everyone. However, attacks are getting increasingly sophisticated and targeted. APT attacks, zero-day malwares (including ransomwares), malware-less malicious documents (macro-based attacks), spear-phishing links embedded in pdf files are easily bypassing traditional signature-based security solutions (i.e. antivirus, firewall). Therefore, how can businesses ensure that these files are safe and your business will not suffer any revenue loss?

What does the FireEye SmartGrid provide?

FireEye SmartGrid is powered by the patented MVX engine which detects zero-day, multi-flow and other evasive attacks with dynamic, signature-less analysis in a safe, virtual environment. It stops infection and compromise phases of the cyber-attack kill chain by identifying never-before-seen exploits and malware. FireEye SmartGrid is designed to work with FireEye Network, Email and Content Security platforms and other solutions through restful APIs

What does the ST Engineering Electronics File Cleansing Solution provide?

DigiSAFE File Cleansing Solution is designed to ensure that files are free from embedded malwares. It is a configurable platform that can orchestrate an array of malware detection and files treatment engines based on the principles of isolating good data and minimal system maintenance. Together with the DigiSAFE Data Diode, the integrated solution enables trusted networks to be protected from both malware intrusion and information leakage.

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How does the joint solution work?

Any files (software patches, executables/installers, office documents, pdf etc) that are downloaded or save from the Internet are initially consider untrusted and have to go through the File Cleansing Solution. Files can be uploaded using webUI, API or shared folders.

The "cleansing" operation begins with the True-File-Type Detection to check the legitimacy of the files. Next, dynamic analysis is performed to detonate these files to detect if there are any known/unknown exploits, unknown malwares through the integration with the FireEye SmartGrid.

For data files that can be transformed, e.g. MS Office, PDF, etc. File Conversion or Content Disarm & Reconstruction (CDR) operations can be applied to extract the good user data. For application-specific data files which cannot be transformed, eg. AutoCAD, customised parser and checker can be developed to ensure the content integrity and validity of the files. For added assurance, these files should be scanned using the OpCode Detection Engine to ensure that there is no residual machine code in the data files.

Once the files are thoroughly cleansed, the files will be securely transferred to the trusted networks through DigiSAFE data-diode.
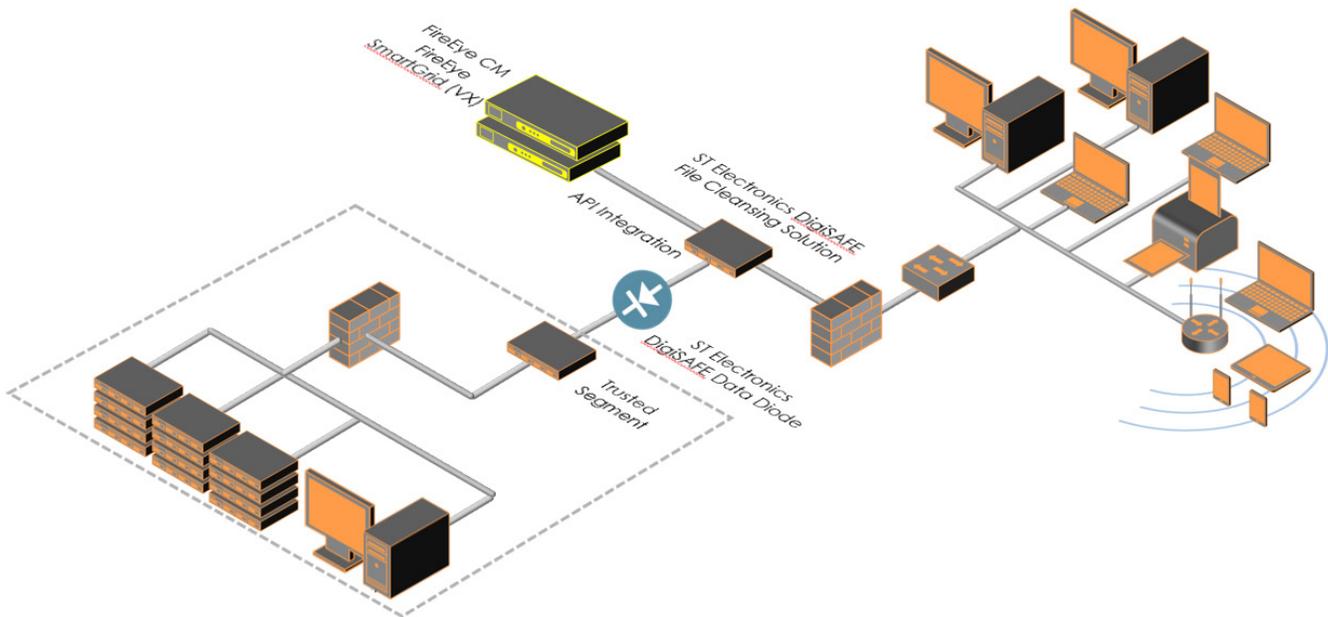

Figure 1. DigiSAFE File Cleansing Solution integrated with FireEye SmartGrid platform

To learn more about FireEye, visit: **www.FireEye.com**

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About FireEye, Inc.
FireEye is the intelligence-led security company. Working as a seamless, scalable extension of customer security operations, FireEye offers a single platform that blends innovative security technologies, nation-state grade threat intelligence, and world-renowned Mandiant® consulting. With this approach, FireEye eliminates the complexity and burden of cyber security for organizations struggling to prepare for, prevent, and respond to cyber attacks. FireEye has over 5,300 customers across 67 countries, including more than 845 of the Forbes Global 2000.

About ST Engineering
ST Engineering Electronics is leading provider of trusted and innovative cybersecurity solutions with two decades of deep experience and proven record in protecting and defending critical infrastructures. Our team of specialised cybersecurity professionals design, build, operate and maintain cybersecurity operation centres for our customers. With our deep engineering expertise, we developed comprehensive range of DigiSAFE cyber-secure products and services such as cryptography, cybersecurity engineering, audit as well as compliance.