Silverlake Intel Appliance (SIA) Universal Secure Access Management (USAM) X Series

Solution Overview

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SIA USAM X SERIES – AN OVERVIEW

Silverlake Intel Appliance (SIA) Universal Secure Access Management (USAM) X Series is a jointly-developed appliance set, based on Intel® Software Guard Extensions (Intel® SGX) and Intel® Active Management Technology (AMT). SIA USAM X Series serves as an end-to-end comprehensive solution that acts as a formidable shield for the very sensitive layer of IT security that protects data, infrastructure and assets across an enterprise.

Designed to deliver unprecedented level of security in the cyber security space, SIA USAM X Series delivers Silverlake's cyber security products, services, support and maintenance - All in One.

SIA USAM X Series (for illustration purpose only)

The solution provides hardened security for its Secure Access Management technology stack to help protect against cyber threats while providing more consistent service performance.

Powered by advanced Intel Xeon Scalable platform and Intel Software Guard Extensions (Intel SGX) technology that can fully automate provisioning and de-provisioning process, SIA USAM X Series gives IT full power over the access rights of employees, partners, contractors, vendors, and guests. This not only speeds up the enforcement process but helps eliminate human error. The scalable and modular architecture of SIA USAM X Series ensures businesses can mitigate cyber threats with more deterministic performance and efficient cost containment. It also reduces the trusted computing base (TCB) to the smallest possible footprint, prevents memory bus snooping, memory tampering, and "cold boot" attacks against memory images in RAM; thereby, providing hardware-based attestation capabilities to measure and verify valid code, data signatures, and the TCB.

With the introduction of 2nd-Gen Intel Xeon Scalable processors comes Intel SGX which was designed to help create more secure environments without having to trust the integrity of all the layers of the system. The technology isolates specific application code and data to run in private regions of memory, or enclaves. *It ensures security at every layer.*

It provides a safe place for code and data in the application. With this, undetected malicious software cannot access secrets. It utilizes a small amount of CPU memory to protect sensitive application information and ensures physical attack protection (via Application isolation).

Combining SGX with another technology called Intel® Active Management Technology, SIA USAM X Series delivers an unprecedented edge-to-cloud security for mission critical used cases in industrial banking, retail and other sectors.

"The appliance creates a hardware protected container for apps to protect secrets at run time and at rest. This means secrets remain protected even when attackers have full control of the platform. So even if an attack happens, our customers' data remains safe. It can be tailored to the customers' needs and features flexible simplified configuration and maintenance"

Below are some elaborated details on key features of the Intel technology that is an intrinsic part of the solution series.

Intel SGX

Intel® Software Guard Extensions (Intel® SGX) is a set of instructions that increases the security of application code and data, giving them more protection from disclosure or modification. Developers can partition sensitive information into enclaves, which are areas of execution in memory with more security protection.

To help address the reality of widespread security holes and compromised systems, Intel set out to design a hardware assisted trusted execution environment to help minimize the attack surface. Intel SGX delivers new Intel® Architecture instructions that can be used by applications to set aside regions that are more private and are for select code and data that can help prevent direct attacks on executing code or data stored in memory.

SGX protects selected code and data from disclosure or modification. Applications are partitioned into enclaves in memory that increase security. Enclaves have hardware-assisted confidentiality and integrity-added protections to help prevent access from processes at higher privilege levels. Through attestation services, a relying party can receive some verification on the identity of an application enclave before launch. With these capabilities, applications are prepared for more security.

"Intel® SGX offers such a granular level of control and protection"

Intel AMT

Intel® Active Management Technology, included as part of the Intel vPro® platform, which spans Intel® Core™ vPro® processors and Intel® Xeon® processors, helps reduce overall PC maintenance and administrative costs. With features to remotely discover, repair, and help protect networked computing assets, Intel® Active Management Technology allows IT Ops to support a mobile workforce. Hardware-based Intel® Active Management Technology provides persistent out-of-band connectivity that operates independently of the OS allowing remote support for appliance issues.

"With Intel AMT, one benefits from Remote Manageability at the Edge"

Combining best of both technologies, SIA USAM X Series bring unprecedented level of "edge-to-cloud" and datacentre security for its customers. The solution set comprises three different models that is meticulously designed to cater to specific needs of an enterprise, regardless of the nature, size or complexity of the enterprise.

The primary SKUs of X Series, comprises of the X3 Series, X5 Series and X7 Series, which aim to be the right solution fit for a small, mid-sized and large-sized enterprise, operating in multiple industry verticals.
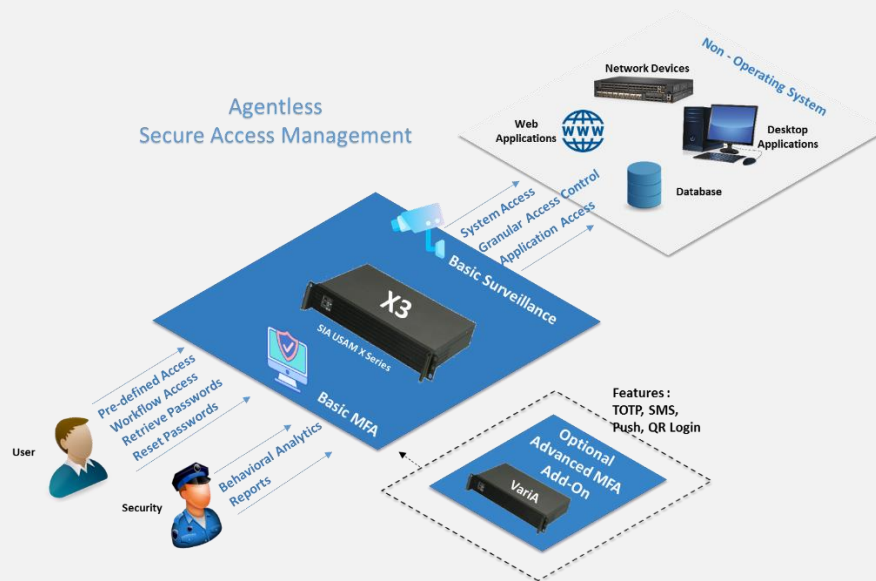
SIA USAM X3 SERIES

Traditionally, large companies and corporations have been popular targets of cyber-attacks. However, increasingly, even small businesses are not immune, and, for some hackers, are actually the more desired target. While, larger, well-established companies and corporations are setting aside budgets to protect their enterprise, smaller organisations typically do not have sufficient budget nor are aware of the need.

Maintaining high level of security for a small business is now made easy and cost-efficient with SIA USAM X3 Series.

This entry level standalone model is designed for small-sized deployments to offer basic USAM functionality and it can support up to 100 resources. Resources here refer to the platform in which the accounts are contained in. Examples of resources are Windows Operating System, Red Hat, Cisco network devices, Office 365 applications.

SIA USAM X3 series supports Agentless deployment method for secure access management, which allows for ease of setup with minimal maintenance. This type of deployment does not require any the installation of additional services or program in the associated resource in order to provide USAM services. As what a small enterprise may seek, this model provides basic surveillance and access control together with password management.

This basic model also provides the enterprise an option to add-on **VariA[1]** – an advanced Multi-factor authentication solution which comes with features, namely, TOTP, SMS, Push notifications and QR login. This may be auto-integrated or pre-integrated, to suit the convenience of the decision-maker.

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[1] VariA is an in-house Multi-Factor Authentication (MFA) solution offered by Silverlake Sheaf. It is a security verification process of identifying an end user by validating two or more claims presented by the user, each from a different category of factors (usually 2 or more from identified factors).

For a complete overview of features offered by SIA USAM X3, X5, and X7 Series, please refer to the SIA USAM X Series Features List.

For general enquiries on this solution set, please write to sheaf_sales@silverglobe.com or info@mastersam.com

About Silverlake

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