

# GATE SCANNER

## Appliance Security

Ensuring Cyber Security for Critical Assets



### The Challenge

Operational computing appliances are exposed to cyber attacks due to limitations in deploying traditional security technologies on appliance-based platforms such as SCADA/ICS, aviation computers, medical-imaging equipment, and point of sale (POS) devices. While solutions exist to monitor traffic in operational (OT) networks and to detect and prevent file-based attacks prior to saving files on appliances, it is challenging to verify that the appliance itself hasn't been compromised. A full system scan will ensure security, while maintaining the integrity of the appliance.

### Gate Scanner® Appliance Security

Gate Scanner® Appliance Security scans MS-Windows based appliances and computing assets using WinPE technology. The solution is loaded into the appliance memory during pre-execution boot, scanning the entire hard disk drive (HDD) with multiple commercial anti-virus engines. Since the solution is activated in memory prior to boot time, it achieves access to all HDD areas including protected sectors. Since no software is installed and no configuration changes are made, the appliance integrity is maintained. The resulting combination of multi-AV scans and entire HDD coverage dramatically improves security against threats.

**Award Winning Solution**  
Sasa Software is the 2017 Frost & Sullivan Asia Pacific Critical Infrastructure Security Vendor of the Year



**Proven Technology**  
Founded in 2013, Sasa Software successfully protects governmental agencies, defense contractors, financial institutions, public utilities and healthcare enterprises

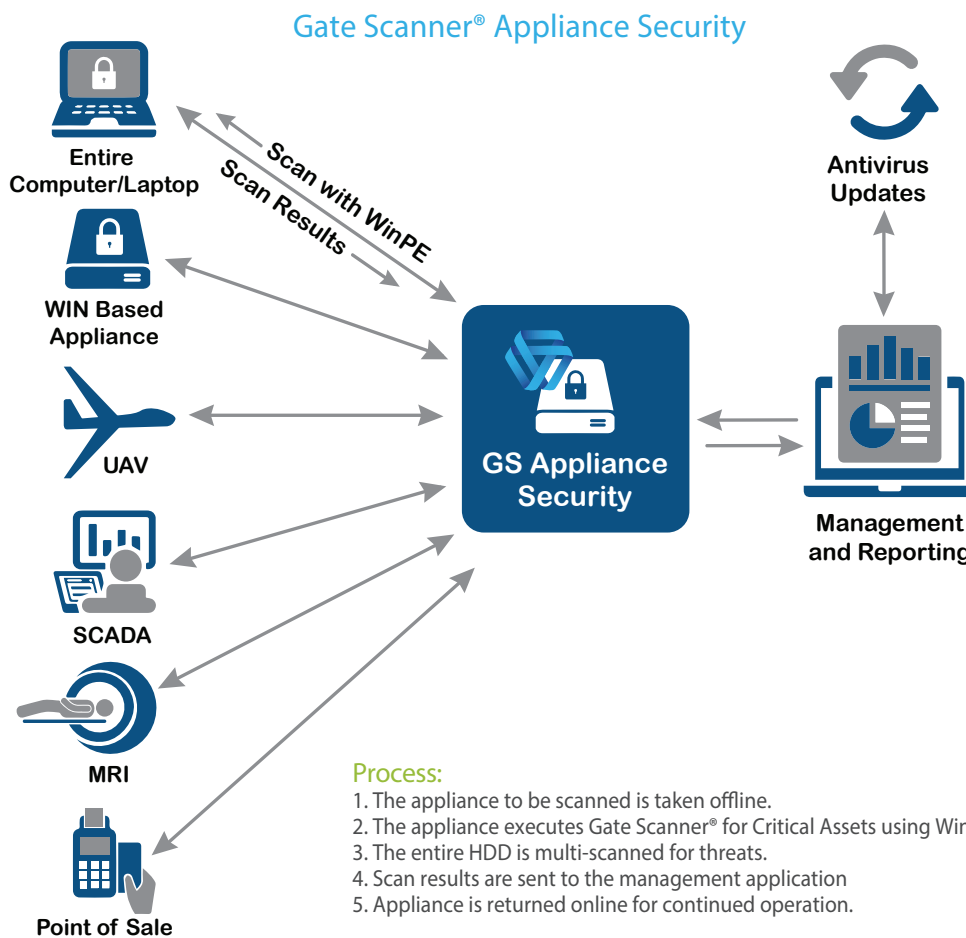
Approved by the Israeli and Singaporean Cyber Commands

Independent tests demonstrate Gate Scanner® prevents up to 99.9% of undetectable threats\*

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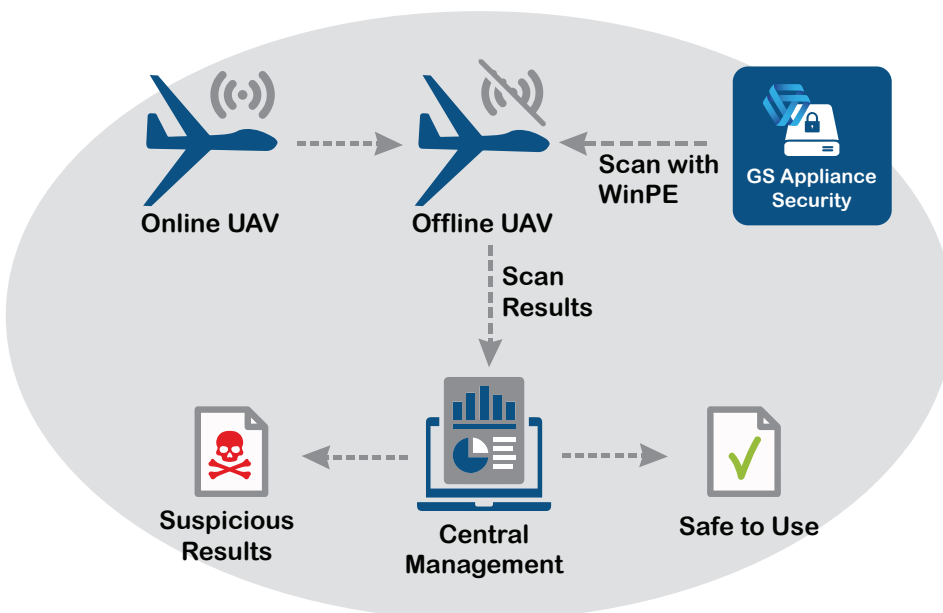


## Features

- ✓ Uses a WinPE client, running entirely in memory, pre-execution (pre OS) environment: no software and no configuration changes are performed
- ✓ Scans the entire appliance HDD using five commercial anti-virus engines, plus one Next Generation Machine Learning / AI technology (powered by Cylance®)
- ✓ Updates AV definitions prior to every scan
- ✓ Parallel scanning for maximum performance optimization
- ✓ Optionally uploads detected files to an encrypted archive for malware analysis by the organization's SOC
- ✓ Management application controls connected appliances, defines scan policies, configures exceptions, monitors concurrent clients connection and progress, tracks scan history, and reports incidents via email, SNMP, syslog
- ✓ Web-based reporting system of scan results
- ✓ **Activation options:**  
CD/DVD, USB Drive, PXE Server

## Sample use cases

- ✓ Scan an entire computer/laptop before entering an OT/critical network
- ✓ Aviation and naval computers
- ✓ C4ISR systems (e.g. UAV ground controllers)
- ✓ SCADA/ICS Controllers
- ✓ Medical equipment
- ✓ POS Machines: ATMs/retail/vending
- ✓ Scanning of other MS-Windows based appliances



### Sample Use Case – UAV operator

A defense contractor operating UAVs (Unmanned Aerial Vehicle) had to comply with security policies requiring pre/post mission integrity checks on the assets prior to downloading mission data. After every sortie, the UAV's aviation computer is scanned by Gate Scanner® Appliance Security. Once the UAV is determined to be secure, mission data is downloaded, and the UAV is prepared for the next flight.

## System Components and Specifications

- ✓ **Management Server:**  
Installed on a Windows 2012 R2 Server  
Requirements: 4-6 vCores, 12-16 GB RAM, 250-500 GB HDD  
Database: MS-SQL 2014 STD  
Full text search, reporting services, reserved IP and DNS names, required ports
- ✓ **Client Requirements:**  
Valid MS-Windows license, Windows formatted HDD (non-encrypted)  
Requirements: Core i3 & Up, 4 GB RAM, LAN connection.