

MONITORIAPP COMPANY INTRODUCTION

Application Security Leader

Contents

01

Company Introduction

- General Information
- History & Performance
- Organization & Personnel
- Core Technologies
- Main Business Area
- Certification
- Global Business

02



- AIWAF

- AISWG
- AISVA





- AIONCLOUD
- WAF
- WMS
- SWG



General Introduction



Vision Mission Be a leading application security Pursue the progress of information and solution provider in the world communication technology and strive for a world in which people and knowledge by bringing people together Strategy **Core Value** Customer Service Main Focus on Application Layer · Communication with Warmth and Continuity Maximized Optimization via Profiling & Team Spirit Correlation Enthusiastic Participation Threat Intelligence & Business Intelligence via Strong Responsibility **Big Data Analysis** • Frontier Spirit · Delivery through On-Premise & In the Cloud Creative Mind • Endless Self-Development **Business Area** - Web Application Firewall (AIWAF)

- SSL Visibility Appliance (AISVA)
- Secure Web Gateway (AISWG)
- Secure E-mail Gateway (AISEG)
- Cloud Security Service
 - : Virtual Appliances
 - : AIONCLOUD(SECaaS)
- Application Vulnerability Analysis
- Application Security Monitoring
- Consulting Service

02 History & Performance



	Name	e MONITORAPP Co., Ltd.		Establish Date		ate 2005. 02. 22
	Personal / Turnover		81(2021)/\$11.2billion(2020)		iness A	s/W Advisory, Information Security Solution
	Locati	ion	27 Digital-ro 27ga-gil, Guro-gu		vice URI	www.monitorapp.com
2005 2006	Feb Feb Apr Jun	MONITORAPP established. WAF, WISG released. Selected as 2006 export promising company by the SMBA WAF, WISG acquired GS and NEP certification.		2016 Sep Distribution Oct AIONCLO		Japanese branch opened Distribution Agreement with Netnam (ISP) in Vietnam AIONCLOUD, SECaaS platform released. Distribution agreement with Indonesian NI company RML
2007	Mar Nov	Acquired patent for 'Profiling-based web service security system' and 'Remote web service security system' AIDFW, DB released		2017	Feb July Dec	AISVA ODM contract with Artiza Networks (NI) in Japan Acquired patent for 'Web-DB user tracking method using data mining'. Signed White Label partnership about AIONCLOUD with AhnLab and Atto Research
2008	May Jun	Acquired patent for 'Profiling based database security system' AIDFW, DB firewall acquired GS certification. AIVFW, VoIP firewall released. AIWAF and AIDFW acquired CC certification. Acquired patent for 'Transparent proxy system and its packet processing method'. Acquired patent for 'Integrated security by tracing correlation of log data between Web-DB'. AIVFW, VoIP firewall acquired CC certification.			Mar Apr WMS s May AIONC Aug Acquire Nov Signed Dec Signed Signed	'Acquired patent for 'Automatic recognition system of protected service'. WMS service was released on AIONCLOUD
2009	Feb Apr May			2018		AIONCLOUD was certified by NIPA for cloud quality and performance Acquired CC certificate for Web Application Firewall Signed partnership about AIONCLOUD with MEGAZONE CLOUD Signed partnership about AIWAF with UAE vendor
2010	Jan May					Signed White Label partnership about AIONCLOUD with Japan vendor
2011	Aug	Distribution agreem	ent with BlueZebra in Thailand.	2019		Signed a joint SECaaS business agreement with a Japanese security firm
2012	Jan Apr	AIWAF-VE, WAF optimized for the Cloud environment was released.			July	Acquired a patent for Method and system for accessing SSL via security devices Technology patent acquired for "URL processing device and method"
2013	Feb Sep	Distribution Agreem AISWG, secure web	ent with TechLab Security in Malaysia o gateway released.	2020	Feb Mar Jun	Technology patent acquired for "session management method and security relay device" Technology patent acquired for "multi-string pattern search method and device"
2014	Feb	Joined OWASP (The Open Web Application Security Project) as a corporate member.			Jun	Technology patent acquired for "web-based illegal login blocking device and method using machineearning.
2015	Mar Nov Dec	AISVA, SSL visibility	lished in AWS (Amazon Web Service) Market Place. / appliance released. C and GS certification.	2021	Jan Jun Aug	Qualified as a countryviewer in Google Virus Total and Malicious URL information. Excellent Corporation R&D Center Selection by Ministry of Science and ICT Zero Trust Network Access released.







Division	Number
CEO	1
General & Administration	5
Sales	24
Marketing	8
Product Management	1
Engineering	42
Total	81





MONITORAPP's 6 core technologies bring "Insight" into "Application (7th layer of OSI 7 layers)," which is why our products have "AI" in front of them. Based on AIOS, proxy technology, SASE platform technology and on its core security technologies such as Profiling, Threat Intelligence, and ZTNA technology, it provides security solutions in various areas, including Web Application, SSL Inspection and Internet Access Control.







AIOS Platform

AIOS (APPLICATION INSIGHT OPERATING SYSTEM) is a common platform for all products of MONITORAPP.

- Packet Driver
 - ✓ Identifies protection target traffic and send protection traffic to AI_SOCK while bypassing relevant traffic
 - ✓ Transfer packet flow from eht1(Client) to eth2(server) or eth1(Client/Server) based on composed mode
- AI_SOCK : Transfer protection target traffic to proxy engine for flow control and status check with optimized TCP/IP stack.
- Application Proxy: Default mode & condition setting and traffic detection/block per each product
 - ✓ Process module per composed mode: Sniffing, Mirroring, SYN_TP, Transparent Proxy, Reverse Proxy, etc.







High Performance Proxy Technology

Transparent Proxy which is one of the core patents of MONITORAPP is stable and high-level inspection for application security

- Application proxy providing a profound level of security under complete analysis on WEB, DB and individual application protocol
- Providing equal function without changing of existing network
- Bypass function enabling stability and reliability







Adaptive Profiling Technology

Through our profiling technology, we provide an intelligent security system that can block unknown threats and automate the creation of complex security policies.

- Request profiling that triggers normal responses during a normal web user behavior
- Type analysis for individual parameters
- DB query/sentence profiling







Threat Intelligence

Threat Intelligence : immediate response against threat worldwide by gathering, analyzing and sharing information based on vulnerabilities and behavior analysis.

- Signature based detection
- Reputation based detection
- Traffic transfer analysis
- Behavior based detection

- Real-time information gathering
- Data mining
- Big data analysis
- Device interlocking







ZTNA(Zero Trust Network Access) Technology

MONITORAPP provides remote access technology that can provide an improved level of security compared to existing VPN technologies based on ZTNA technology. This new technology provides a safe remote access environment through Zero Trust-based authentication in non-face-toface/remote access/cloud environments.

ZTNA technology implemented through SDP (Software Defined Perimeter) can supplement the weak authentication structure of VPN and is designed to implement user-centered security instead of network-centered security. Without exposing the network data, it is possible to configure the network based on the identity authenticated through the device and account, thereby improving the weak remote access structure of the VPN. In addition, MONITORAPP is able to provide a Secure Internet Access (SIA) service by using the on-site traffic forwarding technology to provide SASE-based cloud security service.







AIONCLOUD SECaaS Platform

MONITORAPP has a cloud security platform optimized for the SECaaS business. The SECaaS platform composes a multi-tenancy based service infrastructure through the interconnection of the service gateway, security manager, security edge, and log collector, and provides security services in the form of SECaaS through various security service modules. MONITORAPP's SECaaS brand, AIONCLOUD, provides CloudWAF, CloudWMS and CloudSWG services with our service infrastructure spread over 16 global regions and 40 datacenters.







B2B Cyber Security in the Cloud & On Premise









It is a service that provides security that customers want in the cloud. We deliver SECaaS AIONCLOUD worldwide through our self-developed AISASE platform



Public Cloud

We have hundreds of references across various IaaS platforms and it is a proven solution registered on AWS, GCP and MS Azure. Broad range of subscription options with Pay-As-You-Go pricing so that the customers can pick a product that best suits their business needs



Achieve instant web security with a variety of configuration options and automation elements optimized for cloud environments to focus your security governments on your business.



MONITORAPP solutions are built on their own platform AIOS. Applies various security technologies (proxy,profiling,correlation,TI). AIOS consists of network driver, packet driver, AI_SOCK, SSL module, and AILIB





MONITOR PP

With multiple knowledge asset patents and certificates including new technology from ministry of IT in Korea, MONITORAPP has more than 3,000 clients around the nation. MONITORAPP plans to extent its business area based on these reputations.



[07/03/08] Dynamic web application security technology through profiling technique



[07/06/29] Remote web application service security and delivery system through the internet



[08/05/21] Profiling-based security system and process



[09/05/12] Transparent proxy system and other packing processing system



[10/01/07] Integrated security system and process by webdatabase attack detection log data tracking



[17/07/03] Web-database user tracking system via mining



[18/03/14] System for automatic recognition of protected services

특허경			1000	2
2000			100	1
-	¥ 10-2001584 5			
-	N 18-3317-314680		. manter.	
252	200746 112 032			
243	2029M 07B 12U			
This is to on		with the Report	등록되었음을 중엽? Act, a pattern for the in	
0		278 170 8 58		1225
1				

[19/07/12] System for supporting access to sites where SSL connection is not possible using security devices



[20/03/11] Session management process and security relay device using the same process



[20/05/12] URL processing device and system

특허경	5	
CIRCUKAR C	e EAMME	
4 5	¥ 10-2128581 #	-
****	1 10 2018-0107845 R	Then the
215	201815 1218 2116	
	Ros Res Secto	
위의 발명은 This is to ce	२ (क्रांध्य) जा पर १ कार्यात्वर २०११ २ (क्रांध्य) जा पारा कार्यात्वर २०११	I후에 등록되었음을 중영합니다. Stant Act, a patent for the invention
	202010 008 24%	

[20/06/24] Multi-string pattern search process and device



[20/06/30] Web-based illegal login blocking device and machine-learning processing



^[21/02/01] proxy-based security systems handle traffic in asynchronous redundancy environments





Global Reference

Since 2009, MONITORAPP has entered the global market with excellent security solutions based on high-performance application proxy technology, showing rapid growth, and drawing visible results. With a stable sales network with global partners in Southeast Asia and Middle East such as Thailand, Malaysia, Vietnam, and Indonesia, and UAE, and a corporation in Japan (established in 2016), we are actively exporting our products and services. In 2019, we established a corporation in the U.S. and have been marketing AIONCLOUD, a cloud-based web security service platform, and we are expected to expand to the European market as well.





WAF | **MPPLICATION INSIGHT WAF** | Web Application Firewall

AIWAF(APPLICATION INSIGHT WEB APPLICATION FIREWALL) supports signature-based with periodic updates and profile-based positive polices in accordance with complete analysis of HTTP protocol and protects web services with various optional features against external hackings.

- Core Technology

- Proactive response to various web threats (Black Client IP, C&C IP, etc.) through real-time connection with Threat Intelligence Platform
- · Automatic bypass according to system status
- Non HTTP traffic control
- · Logging response data and request to all detection logs

- · Separate dashboard per domain
- Web service status monitoring (availability rate, response speed, status)
- Bot Detection / CAPTCHA
- · Normalization on the traffic that is trying to bypass the security
- Provides self-testing function to verify detection



SWG | **CALICATION INSIGHT SWG** | URL Filtering Solution

AISWG(APPLICATION INSIGHT SECURE WEB GATEWAY) is a powerful security web gateway to provide the flexibility in business requirements and protect internal web users of the corporation to assure secure web usage environment from the threat of various web attacks.

- Core Technology

- Real-time update with connection to Threat Intelligence(AICC)
- SSL/TLS encrypted traffic support
- NAT/DHCP environment support (user verification)
- Request/response data analysis (granular web service control)

- URL filtering (65 category filters)
 - > Non-work related site control (59) + malicious site control (6)
- Full parsing on the HTTP protocol
 - Malicious code detection within the data
 - Confidential data leak detection
 - Webmail service control by feature



SVA | **MPPLICATION INSIGHT SVA** | SSL/TLS Visibility Solution

AISVA(APPLICATION INSIGHT SSL VISIBILITY APPLIANCE) is a specialized appliance that provides visibility of SSL traffic so that strong security policies can be applied to encrypted traffic of the existing security equipment by providing encryption and decryption of SSL traffic.

- Core Technology

- Inbound decryption: server IP: PORT, certificate and private key registration
- Outbound decryption
- Certificate and private key creation and management
- Automatically sort encrypted traffic (No need for an additional decryption target setting)

- Decryption of all SSL/TLS regardless of application type
- · Simultaneous bidirectional (inbound/outbound) decryption
- · NAT, asynchronous network environment support
- Automatic management of undecryptable websites (local learning/DB update)
- · Health check on the section linked to the security system







- AIONCLOUD (SECaaS brand) offers a variety of web security services.
- It is a SASE platform that enables the application of the same security policy anywhere in the world.
- We provide a Web Application Firewall (WAF), website malware scanner (WMS) service, and secure web gateway (SWG) service.
- You can experience web server protection and improved website performance by blocking various cyber threats.



NIONCLOUD

WAF(Web Application Firewall)

- The service does not require HW / SW installation, maintenance, license and provides powerful web security and optimized web performance
- Block various web attack / abnormal access / personal information leakage
- Simple subscription / install / setting / management via SECaaS platform

- Main Feature

• WAF service protects website from various attacks.

- OWASP Top 10 Vulnerabilities
- Brute Force Attack
- Malicious File
- System File Access
- CSRF

- Malicious Bot / Scanner
- Application Vulnerabilities
- SQL / Command Injection
- HTTP DDoS Attack
- Webshell Attack

- WAF service optimizes website operation.
- Multi Domain Management
- Web Acceleration with Web Caching
- SSL Certificate Issue



WMS(Website Malware Scanner)

- Diagnosis Service to Extract Malware from Websites
- Visite the website regularly and diagnose malware infection for quick and early response and minimizing damage
- Execute multi-level analysis with static/dynamic analysis engine (MUD; Malicious URL Detection)

- Main Feature

 Website Diagnosis Provide infection diagnosis results & detailed view Provide manual diagnosis feature Provide information on Detection Time / Server IP / Server Port / Detected URL / Response data / Response data Size User can view the reputation. 	 Statistical Information Provide each user with user-friendly interface Show URLs diagnosis results / number of malicious & diagnosed URLs / progress status Statistical information on malware analysis by period 				
 Website Management User can manage registered website Protocol / domain / path / diagnosis period / automatic alert setting feature 	 Threat Information Provide Threat Information gathered from AICC (Application Insight Cloud Center) Correlation analysis with malware information collected and processed for many years 				
WMS's Analysis Process Image: Discover regularly Image: Discover regularly Discover via Static analysis	4) Extract malicious URLs and code Analyze if website is exploited as malware origin / stop Analyze if website is exploited as malware origin / stop				

SWG(Secure Web Gateway)

- Complete a secure web gateway solution as a service
- Configured in mere minutes and easy to use
- No matter where you are, the same high level of security is provided. It is always-on

- Main Feature

URL Filtering

The SWG service controls the client's internet access by checking for suspicious links or URL's containing suspicious files.

- Category-based filtering: malicious software/botnet/spam/abused site/phishing/fraud/anonymous service/ network error/unused domain control

DLP

Network-based DLP to prevent leakage of personal information or internal documents from PC users.

- Block file upload through a bulletin board or web hard drive
- Prevent data leak through keyword file size control, etc.
- Prevent information leak through compressed files and file attachments

Malicious URL Detection

Controls URL's with malicious codes, based on the malicious code penetration pattern profiling and blocks access to harmful sites based on URL category classification.

- MUD technology application (linked with TI platform AICC): direct website visit/analysis, malicious code detection/advanced malicious site filtering

SSL Traffic Inspection

SWG service provides all security functions, such as self-encryption and SSL traffic control (HTTPS), without an additional installation.

- Provides full SSL visibility by controlling outbound traffic from client to the server
- Automatic bypass of sites that cannot communicate with SSL
- Automatic distribution of SSL certificates



Application Delivery Leader

THANK YOU

MONITORAPP | ADDRESS : 8F/9F, 27 Digital-ro 27ga-gil, Guro-gu, Seoul, Korea 08375 | PHONE : +82-2-749-0799 | Web : www.monitorapp.com | E-mail : sales@monitorapp.com | Copyright 2023 MONITORAPP Co., Ltd. All rights reserved.