

# F1Security, Inc. Corporate public relations BROCHURE

http://www.f1security.co.kr/English http://www.uwss.online



• Company Name F1Security, Inc.

#### Management Team

Dae Ho, Lee (CEO) Dong Keun, Lee (CTO) Ki Hwan, Kim (CSO) Sung Chul, Pyun (BizDev) \*security experts (Over 90%)

# • Year Founded

October 2012

#### Core Business

Information Security Consulting Web Security Solution

#### Business Description

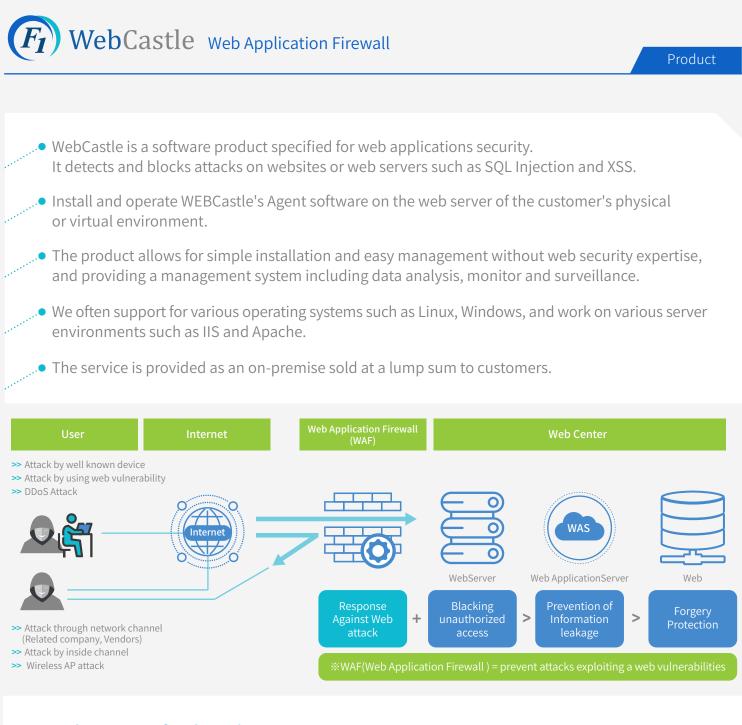
F1Security provides web security solutions developed by industry consulting experts in cyber security. We have a family of web-based solutions that contribute to building a more secure web environment from hacking through web application firewalls, web-shell detection solutions, and web-shell scanners. Our solution has many practical use cases in Government, Enterprises, SMEs, and MSSPs.

#### Core Technology / Products

F1Security provides web security solutions such as WebCastle(Web Application Firewall), WSFinder (Anti-WebShell), WMDS(Website Malware Detection System), and UWSS(Unified Web Security Service). F1 Security's web security solutions are based on a microservices architecture and operates as a patented malware detection algorithm in the United States. Our web security solution provides customers with a centralized and unified management system in the cloud, so customers can deploy and use it immediately without any additional hardware.

#### Differentiation

- F1Security is applying the web security technology learned through consulting services to the solution
  - Holds a total of 30 intellectual property patents relating to web security.
  - The patent also includes U.S. intellectual property rights relating to "Method and System for Detecting structured Malicious Code Using Process Behavior Prediction Technique."
  - In addition, holds patents on artificial intelligence methodologies for the detection of webshell.
- F1Security provides all-in-one web security solution with one platform
  - Supports cloud and existing infrastructure without changing the configuration of customer network.
  - Customer can use one platform for centralized management F1Security's solution for all products.
  - Reasonable price system with a monthly subscription type.
- F1Security has many practical use cases in Government, Enterprises, SMEs, and MSSPs.



## Advantages of WebCastle

Optimum products for cloud computing environment based on host web security solution	Permanently optimized Web security solution to Green IT, IoT environment
Easy management, providing simple installation and integrated security control service	Not only real-time data monitoring but also detailed analysis with log data is available
Support for various operation system and environment	Optimized for SSL (Secure Socket Layer) to provide safe web communication
Guarantees the rapid response time of service with SSL	

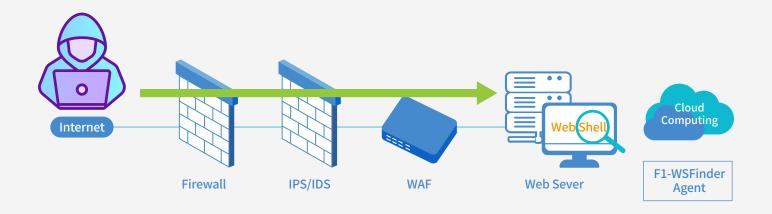


• WSFinder is a software product that detects and quarantines/removes a web shell-a script installed by a hacker to execute a command on the web server-installed on a web server.

• Install and operate WSFinder's Agent software on the web server of the customer's physical or virtual environment.

• Support for PHP, JSP, ASP, ASP.NET, and various web environments for each version.

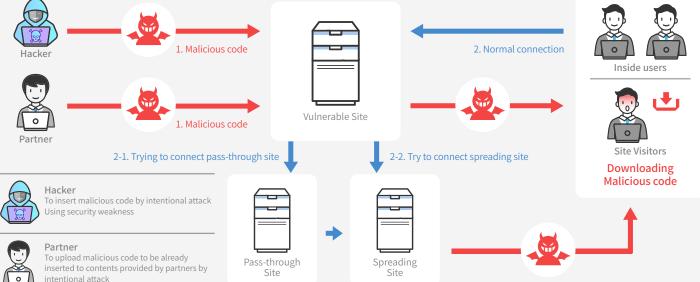
• The service is provided as an on-premise sold at a lump sum to customers.



# Advantages of WSFinder

Classification	Function	Characteristics
Detection function	<ul> <li>Adding inspection objects folder</li> <li>Application rule/schedule/back up management of exception</li> <li>Inspection start and reservation management</li> <li>Reference for detected contents</li> <li>Management of isolation cell</li> </ul>	<ul> <li>File hash basic mount</li> <li>Adaptation of fast regular algorithm</li> <li>Loading various kinds of pattern detection algorithm</li> <li>Similarity detection based upon SSDeep</li> <li>Obfuscation detection function</li> </ul>
Tested results	<ul> <li>Inspection lists reference</li> <li>Reference of detected results lists</li> <li>Searching function of detected results</li> </ul>	• Convenient user and intuitive UI
Pattern Management	<ul> <li>Pattern update</li> <li>User pattern update</li> <li>Pattern code management</li> <li>Pattern searching</li> </ul>	<ul> <li>Reference of agent lists</li> <li>Adding agents</li> <li>License management</li> </ul>





• In addition to WEBCastle, WSFinder, and WMDS, web page forgery detection is provided as a monthly subscription type.

• Provides a centralized management system constructed in the cloud at zero initial introduction cost for customers.

# (F<sub>1</sub>) UWSS

Providing all four web security services above in a reasonable monthly rental on a cloud platform. Present a comprehensive technical plan for protecting websites and web servers.



Detect and block hacking attacks against web applications in real time.



Detect and take measures against webshell infection.

 $(F_1)$  WFDetector

Detect and respond to forgery of web pages.



Detect and respond to the distribution of malicious code via the web.

# Advantages of UWSS

UWSS provides various values to customers as a differentiator.

Values	Differentiation factor	Similar products
Integration service	Provides a comprehensive web security solution that can be integrated and managed <b>※ Customized service according to customer choice</b>	Purchase of individual products, Convenience is reduced by managing each individual product
Server construction cost reduction	Provides an integrated central management platform in the cloud ※ Customer Server Construction / Operation Cost Zero	Management server purchase and construction, operation cost is required
Immediate installation operation	Available immediately after downloading / installing Agent software	SECaaS (Proxy method) requires time to change / apply DNS
Monthly spending	Reasonable monthly subscription	Provided just on-premise configuration, Only some individual products are provided as monthly subscriptions
Operation management efficiency	Integrated operation management through a single management website Contract / management of multiple products through a single window (work efficiency)	Provide individual product management system
User convenience	Increased security management convenience such as integrated dashboard and integrated report	Not provided, individual product dashboard / report
Disability Web access guarantee	No impact on customer web access due to platform or agent failure	SECaaS (Proxy method) also stops accessing customer websites in case of service infrastructure failure
Hacking Secure platform	Since the cloud platform does not bypass and store any web traffic, information leakage does not occur even if the platform is hacked.	SECaaS (Proxy method) analyzes / stores all web traffic bypass in the service infrastructure (possible), Traffic information can be leaked in case of infrastructure failure



# Reference customers and key performance



# Intellectual Property Rights

Holds a total of 30 intellectual property patents relating to web security.

Classification	Title	Summary	Application or Registration	Applicant or Manager
Trademark	F1SECURITY	Application 2017.10	No. 40-2017-0073030	F1security
Trademark	WMDS	Registration 2017.02	No. 40-1234673	F1security
Patent	Web attack detection and prevention system	Application 2018.06	No. 10-2018-0063747	F1security
Patent	Malicious code detection device and method	Application 2018.06	No. 10-2018-6072213	F1security
Patent	Webshell detection system	Registration 2018.05	No. 10-2018-0012441	F1security
Patent	Web site forgery detection method and system	Application 2017.08	No. 10-2017-0106962	F1security
Patent	Risk Analysis System of Malicious Code by Using Machine Learning	Overseas PCT Application 2017.12	PCT/KR2017/014233	F1security

# Reference customers and key performance

Has many practical use cases in Government, Enterprises, SMEs, and MSSPs.

Shinsegae-inc (iDC & MSSP)	CJ O SHOPPING (Enterprise)	Maru Internet (Web Hosting)
Shinsegae-inc is an affiliate of the Shinsegae Group and is an MSSP that provides security services while operating iDC. Shinsegae-inc provides external services by building F1 Security's UWSS as a dedicated platform.	CJ O Shopping is Korea's first large home shopping channel and uses F1Security's WMDS to monitor whether malware is distributed via its website.	Maru Internet is a web hosting company and operates a WebCastle (web application firewall) and WMDS to protect its customers' websites.

# Global Partnership





# F1Security is an information protection partner that grows together with customers to improve their cyber security level.

F1Security's core business departments are penetration test, vulnerability assessment, certification consulting such as ISMS, ISMS-P, ISO27001, and personal information protection/management system consulting.

F1Security is a specialized company in the field of information security that provides solutions and services related to web server and web site protection such as web application firewall/anti-webshell/web malware distribution detection.

Since its establishment, F1Security increased sales of information security consulting services every year.

F1Security has been designated as an information protection professional service company by the Ministry of Science and ICT.

The professionalism of strategic consulting methods, the expertise of the performing organization system and the stability of the company are officially recognized.

In addition, by reflecting field know-how accumulated through consulting, we have developed both our on-premise and SECaaS (monthly subscription) web security solutions.

We are diversifying our business portfolio into the one-stop Web Security Solution Provider that supplies and builds web security solutions to domestic and overseas partners and customers.

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