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<http://www.lsware.com>





We are here to provide a system  
to the customers to use it in a freer environment.



Foundation	March 21, 2005
CEO	Minsoo Kim
Homepage	www.lsware.com
Tel	+82-2-6919-0321
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Businesses	Security Software Solution (Server Protection and management products) / Intellectual Property Protection (Free and Open Source Software)
Address	18Fl., A-Tower, D-Polis, 606 Seobusatgil, Geumcheon-gu, Seoul, KOREA

## Certifications and Awards



Excellent Corporation  
R&D Center



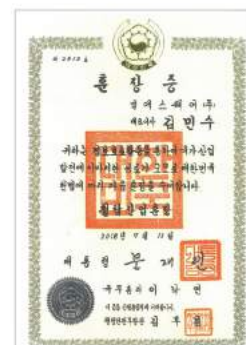
Intellectual Property  
Management Certification



Best Family Friendly  
Management



Certificate of  
Software Process Quality



Order of Industrial Service  
Merit (Iron Tower)

### Corporate Certifications

- Venture company certification, INNO-BIZ, Main-BIZ, SME, Family-friendly company
- Excellent corporate research institute, Intellectual property management SME, IP star company, IBK creative company, Corporate research institute, ISO9001, Excellent venture company, National security technology research institute family company
- Seoul-style small but strong company creating excellent jobs, Most preferred company to work for.

### Awards

Order of Industrial Service Merit (Iron Tower), K-ICT New Software Award from Minister of Science and ICT, Minister of Education's Citation, Korea Software Enterprise Competitiveness Award, Information Security Software Excellence Award, Excellence Award in IT Solution in the Korea Software Enterprise Competitiveness, Excellent IP Award from Korea Invention Promotion Association, Bronze Award at Seoul & Gangwon Competition for SME Learning Organization Support Project, Global TOP Business Grand Prize in 2019, Award from the Chairman of Korea Copyright Commission, Digital Times Brand Power Cyber security.

### Product Certifications

CC (Common Criteria) Certification: SecuMS, Omniguard UAC  
GS (Good Software) Certification: SecuMS, Omniguard UPV, Omniguard UAC, Omniguard UCC, FOSSGuard  
SP (Software Process) Certification

## History

- 2005** ○  
Established LSware INC.  
(IT security software development and supply)
- 2006~2009** ○  
Established Corporate Security Research Institute,  
Acquired Venture Company Certification (R&D),  
Management Innovation SME Certification,  
Technology Innovation SME
- 2011** ○  
Was designated as a company whose employees  
would be exempted from military service
- 2012** ○  
Acquired CC Certification  
(SecuMS - Security Vulnerability Diagnosis System),  
Was select as the most preferred company  
to work for (INNO-BIZ Association)
- 2013** ○  
Was selected as an Excellent Family-friendly Company  
(Ministry of Gender Equality and Family),  
Was certified as an Excellent Company  
creating new jobs (Seoul City)



- 2014** ○  
Acquired GS certification for all products,  
Awarded at the SME Technology Innovation  
Competition hosted by Ministry of SMEs and Startups  
Copyright Technology Award
- 2015** ○  
Was selected as Hi Seoul Brand Company,  
Was selected as IBK Creative Company,  
Awarded Excellence Award at the Korea SW  
Company Competitiveness Competition

- 2021** ○  
Acquired Intellectual Property Management Certification  
(Korean Intellectual Property Office),  
Was selected as Top 1000 National Innovative Companies  
(Financial Services Commission)
- 2020** ○  
Acquired Excellent Corporate Research Institute Certification  
(Ministry of Science and ICT),  
Was selected as Excellent Venture Company (Venture Association)
- 2019** ○  
Was selected as Seoul-type Small but Strong Company  
(Korea Federation of SMEs),  
Awarded the World Class SME Grand Prize (Korea Federation of SMEs),  
Contracted server security solution export to Indonesia,  
Acquired Software Process Quality (SP) Certification (NIPA)
- 2018** ○  
Iron Tower Order of Merit in recognition of contribution to the  
information protection industry (Ministry of the Interior and Safety),  
Registered Omniguard UPV and UCC product at Public  
Procurement Service
- 2017** ○  
Was Selected as Small but Strong Company by the Ministry of  
Employment and Labor, Was selected as Excellent IP  
Management SME (Korean Intellectual Property Office),  
Excellence Award at the Korea SW Company Competitiveness Contest
- 2016** ○  
Was selected as IP Star Company (Seoul Intellectual Property Center),  
Commendation from the Minister of Education  
(in recognition of contribution to early childhood education),  
Awarded New SW Product Grand Prize (Minister of Science and ICT),  
Was selected as a Small but Strong Company in Seoul

## Customers

### Manufacturing / Service Providers

Samsung Display, Samsung SDS, Samsung Electronics, Samsung Electronics Service, S-1, Renault Samsung Motors, LG Electronics, LG Nsys, Doosan Heavy Industries & Construction, Magna Chip, Samhwa Paint, SK Communications

### Finance / Insurance Companies

Korea Financial Telecommunications and Clearings Institute, KOSCOM, Samsung Securities, Suhyup Federation, KDB Industrial Bank, Shinhan Financial Group, Shinhan Credit Information, Shinhan Card, Shinhan Savings Bank, Shinhan BNP Paribas Asset Management, Jeju Bank, Shinhan DS, Shinhan Aitas, Mirae Asset Daewoo, MG Credit Information, Meritz Securities, Hyundai Card

### Public Institution/Military/School

Korea Copyright Commission, KERIS, Korea Public Financial Information Service, Uiwang City, Ministry of Trade, Industry and Energy, Ministry of Environment, Defense Acquisition Program Administration, National Tax Service, Seoul Transportation Corporation, Seoul Metropolitan Rapid Transit Corporation, KORAIL, Korea Industrial Complex Corporation, Korea Mine Reclamation Management Industrial Complex, Gwangmyeong Cultural Foundation, Republic of Korea Ministry of National Defense, Joint Chiefs of Staff, Air Force Cyber Command, Army Headquarters, Ground Operations Command, 2nd Operations Command, Armed Forces Command and Communication Command, National Defense Integrated Data Center, Armed Forces Intelligence Command, KEPCO KDN, Korea Southern Power, Seoul Asan Hospital, KREN, Gyeongbuk Library, Korea National Defense University, Korea University, Korea Nazarene University, Dankook University



# LSware's Main Businesses

## Server Protection and Management Products



**Omniguard**  
Next Generation Server Security Solution

**UPV** Account Management Solution

**UAC** Access Control Solution

**UCC** Audit Trail & User Privilege-  
Management Solution



**Omni-IM**  
Account Lifecycle Approval and  
Access Management System



**Omni-VM**  
Vulnerability Management  
Portal System



**SecuMS**  
Vulnerability Assessment  
Management Solution

## Opensource software business



**EYESVAULT**  
Open-source SW Compliance Solution



**EYESPROTOCOL**  
EYESPROTOCOL



**TAMTAM**  
NFT+ Marketplace to trade all rights of digital art



**Open-source SW  
Governance Total Consulting**

## Research & Development



**Copyright and content  
distribution  
technology research**



**Blockchain  
technology research**



**Machine learning  
technology research**



**Smart grid security  
technology research**



**Open-source SW  
technology research**



**Network security  
technology research**





## Server Security



### Next Generation Server Security Solution

OmniGuard, a next-generation server security solution, provides functions such as account management, access control, session logging, privilege management, and command control by each model to allow customers to selectively build; minimizes OS impact; and guarantee system stability since there is no need of kernel modification.



### Account Lifecycle Approval and Access Management System

Omni-IM, a payment-based integrated account management and access control system, manages user accounts of heterogeneous OSs and DBMSs through the OmniGuard solution and manages the life cycle and access privileges from account creation to extinction.



### Account Management Solution

A server-based account solution that can centrally manage account policies of heterogeneous Unix / Linux / Windows servers

#### Integrated Account Management

- Simultaneous account creation, change, and deletion between heterogeneous servers
- Batch security policy for each group with single account creation

#### Account Management

- Account change history management
- Password policy management
- Account security policy setting
- Account Lock/Unlock setting

#### Report

- Account creation/deletion history management report
- Report on account status
- Providing various reports



### Access Control Solution

A server-based access control solution that centrally manages consistent access control policies between heterogeneous servers and blocks unauthorized access to servers in advance.

#### Access Control

- Access control to the server
- Access control by group/service/IP
- Port access control (Windows)
- Remote terminal/shared folder access control (Windows)

#### Access Management

- Access IP group setting
- White List and Black List setting

#### Report

- Providing various reports
- Access/block event report
- System/service report
- Detailed policy report



### Audit Trail & User Privilege Management Solution

An audit trail & user privilege management solution, supports functions such as session logging, command control, and authority delegation to ensure accountability of the information system.

#### Use history inquiry

- Trailing the use of dangerous commands
- Replay for session
- Looking up connection session
- Looking up command use history
- Searching under various conditions

#### Session logging (Unix/Linux)

- Log recording by session
- A function to record session stdin/stdout stderr
- A function to limit log size

#### Session logging (Windows)

- Screen logging by session
- Logging program execution information
- Keystroke logging (Hangeul input)
- Password masking
- FTP/TELNET connection logging
- Logging web visit URLs



#### Account Management Process

- Account Life Cycle Management (Work Flow is provided)
- Interworking with internal systems such as HR/SSO/e-mail
- Automatic reflection and synchronization of target systems according to the account application/approval process



#### Account Management

- Automatic account inspection (Ghost account detection)
- Looking up and changing user-owned/managed account information
- Various accounts such as HR change/non-registration/unauthorized change for countermeasures and alarms
- Domain, server manager and retired employee management



#### Access Control

- Providing payment process such as access application/approval
- Setting system access privilege by account
- OS/DBMS access control
- Privilege change for HR transfer in conjunction with HR information



#### Report

- Stats on account status and Work Flow status
- Providing a screen suitable for the scope of user privilege and management
- Providing various functions to create and download reports
- Detecting account status and automatically sending e-mails to the account owner, the person in charge, and the head of the department



## Vulnerability Diagnosis and Management Products



### Vulnerability Management Portal System

Omni-VM, an integrated vulnerability management portal system, establishes a vulnerability management work process through a single interface by interworking with various vulnerability diagnosis solutions, and provides high visibility security status by calculating the security indexes.



#### Integrated vulnerability management

- Interworking with various vulnerability diagnosis solutions
- Linking with asset management system
- Registration and management of administrative/physical vulnerabilities and consulting details
- Providing vulnerability inspection results in a single interface



#### Establishing a vulnerability management process

- Providing a process from vulnerability inspection to actions
- Establishing a management system for various compliance
- Defining roles for each vulnerability management process
- Supporting project unit vulnerability management (security review)



#### Vulnerability diagnosis

- Conducting automatic diagnosis of various diagnostic solutions through web portal
- Setting a specific reason and period as an exception
- Issuing alarms for delayed/missing tasks
- Management of vulnerability inspection results and implemented action details



#### Providing security vulnerability status

- Providing company-wide security indexes for diagnosis results
- Providing vulnerability reports of individual diagnostic tools
- Providing the vulnerability inspection results in charts and various formats
- Providing the stats on each major situation



### Vulnerability Assessment and Management Solution

SecuMS, a security vulnerability diagnosis solution, automatically inspects infrastructure system security vulnerabilities and provides solutions to those problems. In addition, it improves the security level and supports constant monitoring by collectively identifying the status of vulnerabilities.



#### Vulnerability inspection

- Satisfying domestic/international compliance standards
- Scheduled automatic vulnerability inspection
- Manual/portable (offline) inspection
- User-defined script support



#### Vulnerability management

- Providing vulnerability management process
- Inspecting implemented actions and results
- Management of the history of executed actions
- Providing the history of inspection
- Vulnerability rating change and setting support



#### Exception management

- Setting exceptions in diagnosis items
- Providing the status of exceptions and history
- Applying individual/batch exceptions
- Re-detection when the exception period expires



#### Report

- Providing detailed reports
- Providing daily report on vulnerability status
- Providing vulnerability change trend and stats
- Providing reports using reporting tool
- In case of portable (offline) inspection, the target system provides a function to create a report

## Open-source SW



### Open Source Software Compliance Solution

EYES VAULT, an Open-source copyright management tool, analyzes the Open-source licenses used for software development to determine compliance. It supports software developers to meet a more efficient and free development environment by improving the level of copyright management by identifying legal issues related to the use of the open-source in advance.



#### OSS License Compliance

- Providing a function to analyze the details of the Open-source used in the product
- Providing license compatibility conflict information
- Providing a function to compare codes and identifying license



#### Providing analysis result report

- Providing license analysis result report
- Providing comprehensive reports on security vulnerabilities

#### Maximize the use of Open source

Improving the developed software quality by utilizing the latest technology

Reducing the development cost and time by using open source

#### Minimize the risk of open source

Using the open-source safely by reviewing Open-source license violation issues in advance

Securing product reliability by complying with license compliance

### Open Source Software Governance Consulting



#### Educational support

Open-source studies, large-scale seminars, and lectures

We design tailored curricula that suits customer training purposes and organize instructor group consisting of hands-on experts to provide in-depth training by field, industry, and management competency through foundation training that is useful in the field. Educational services such as Open-source studies, large-scale seminars, and lectures



#### Professional consulting

Open-source SW verification service by in-house experts

Based on the customer's software development life cycle (SDLC), we comprehensively inspect the entire process from diagnosing the open-source software to establishing governance, and provide detailed consulting.



#### Verification support

Open-source SW verification service by in-house experts

In-house experts (engineering majors, law majors) with at least 5 years of relevant experience follow up on the verification process agreed in accordance with the customer's open-source SW policy and license usage regulations.



#### Legal advice

Legal advisory service linked to lawyers specializing in open source SW

We provide legal advisory service in close cooperation with numerous lawyers and experts (security experts, overseas open-source experts) in the fields of TMT (Technology, Media, Telecommunications), IP (Intellectual Property), Personal Information Protection and Cybersecurity.



### EYES PROTOCOL

Creating a transparent copyright ecosystem by protecting the ownership and copyright of digital works.



### TAMTAM

TAMTAM is a NFT marketplace where you can trade copyright licenses as well as ownership of digital art according to the purpose of use



Creative space for young creators



Education of raising awareness for license



First license trade of NFT



Supporting sustainable profit



## R&D (Research & Development)

LSware sprints to research and develop advanced technologies through the R&D group consisting of experts with master's and doctoral degree in conjunction with the software research institute. The R&D group is creating a future vision for LSware by conducting various research projects, and commercializing technology and products.



## Major Technology Research



### Copyright and contents distribution technology

- Analysis technology of the characteristics/relationship of modern painting works
- Webtoon settlement monitoring
- Copyright fee settlement and distribution platform
- Jeju tourism AR contents service technology using drones
- Hologram copyright protection and distribution platform



### Blockchain technology

- Multi-channel-based parallel processing blockchain that guarantees minimum TPS
- New copyright service model using a blockchain
- Blockchain-based power energy trading and auction platform
- Bank account-based money transfer support technology that does not depend on coins/tokens



### Machine learning technology

- Anomaly detection for power energy production and consumption patterns
- Receipt image recognition
- Malicious binary code detection
- Behavior-based intrusion detection
- Illegal crop cultivation detection using drone and artificial intelligence



### Smartgrid security technology

- Simple password authentication technology that can be linked with PKI in a smartgrid environment
- OpenAPI-based personal information de-identification and protection technology
- Elliptic curve-based authentication protocol



### Open-source SW technology

- Open-source license conflict and verification automation technology
- OSS and license search and recommendation technology
- SPDX (Software Package Data Exchange) based license trailing technology
- Contact-free (online) open-source SW license consulting system



### Network security technology

- Ransomware detection and recovery based on intelligent honeypot
- Packet analysis for trailing Tor/Dark Web
- SPDX-CVE based security vulnerability trailing and inspection

## Proprietary Technologies

Development of integrated compliance for intelligent software protection through the convergence of copyright and security

('20~'23)

### Application of deep learning model

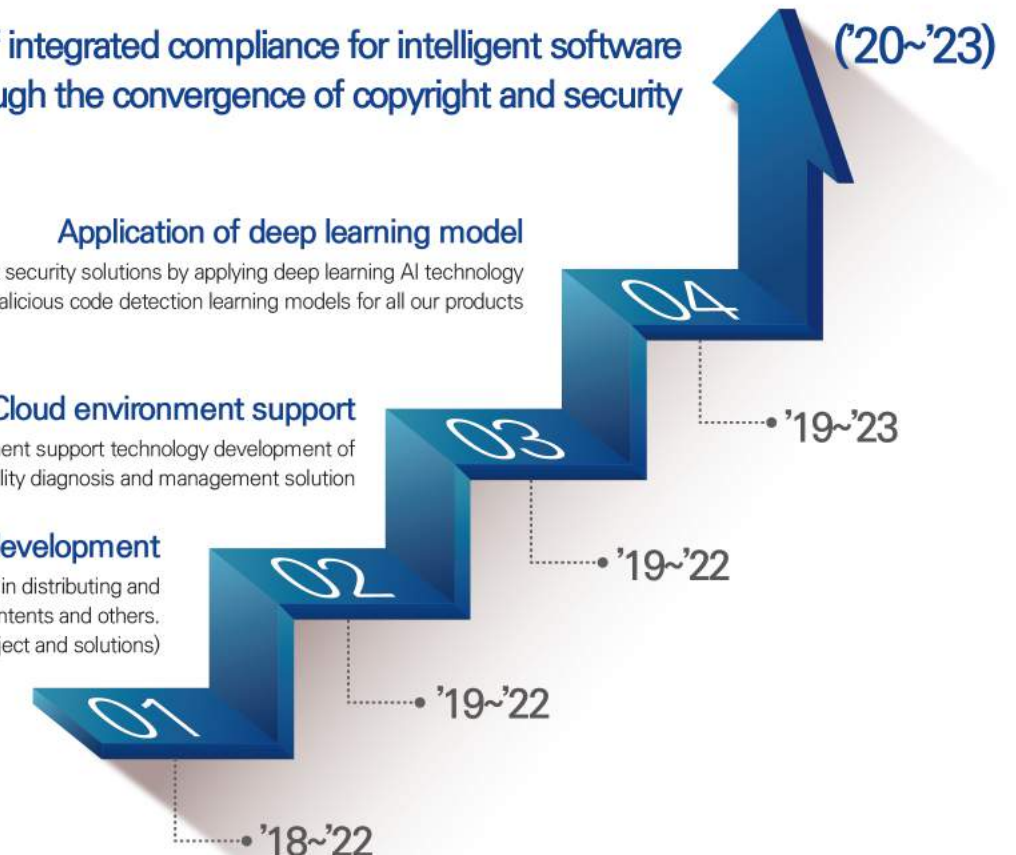
Development of intelligent security solutions by applying deep learning AI technology to malicious code detection learning models for all our products

### Cloud environment support

Applying the cloud environment support technology development of our own security vulnerability diagnosis and management solution

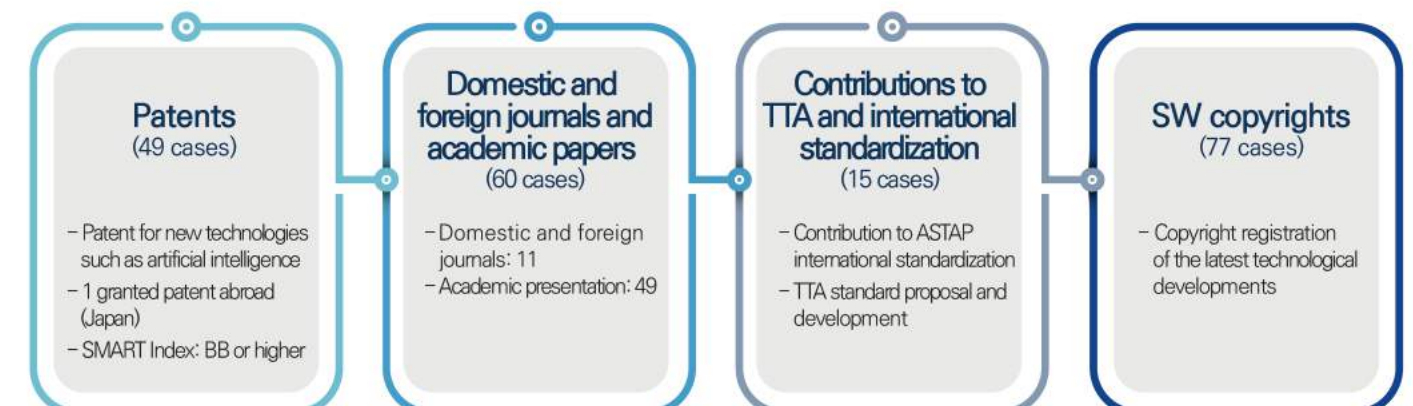
### Blockchain technology development

Development of new services used in distributing and trading art works, music, webtoon contents and others. (Government R&D project and solutions)



- Company-wide application of deep learning technology to all our products ('19~'23)
- Application of the cloud environment support technology development of our own security vulnerability diagnosis and management solution ('19~'22)
- Technology development to actively respond to the latest security threats such as ransomware and the dark web and the application of the developed technology to our products ('19~'22)
- Development of Blockchain technology and the development of new services for distribution of art works, music, and webtoon contents using it ('18~'22)
- Development of software protection integrated compliance technology through the convergence of copyright and security technology ('20~'22)

## Intellectual Property Rights



### Patents (49 cases)

- Patent for new technologies such as artificial intelligence
- 1 granted patent abroad (Japan)
- SMART Index: BB or higher

### Domestic and foreign journals and academic papers (60 cases)

- Domestic and foreign journals: 11
- Academic presentation: 49

### Contributions to TTA and international standardization (15 cases)

- Contribution to ASTAP international standardization
- TTA standard proposal and development

### SW copyrights (77 cases)

- Copyright registration of the latest technological developments