

# Personal Information Protection PCFILTER

[01] Integrated E-mail Security

[02] Management System for Information  
Leakage Protection

[03] PC Filter, Web Filter, Server Filter for  
Personal Information Protection



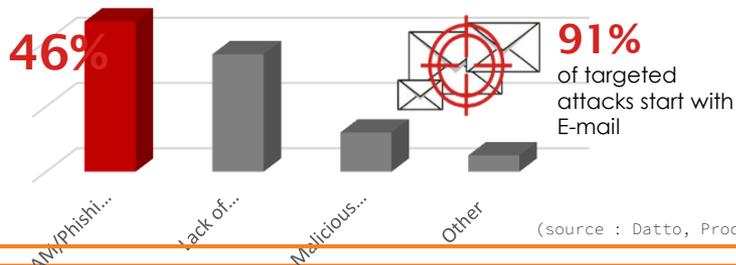
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**JIRAN FAMILY**

Future cyber security partner of Vietnam

## Spam, Phishing and even APT, E-mail Attacks are increasing

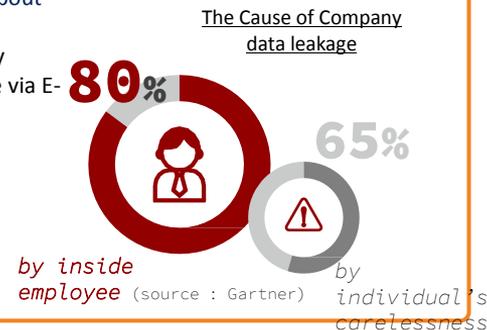
APTs(Advanced Persistent Threats) including ransomware inflow via email attachment are increasing. E-mail is the leading cause of ransomware infection.



(source : Datto, Proofpoint)

## E-mail Threats from the INSIDE

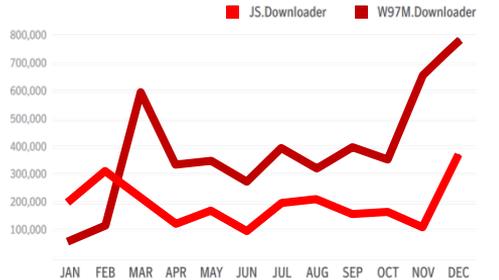
Most of companies are concerned about the threats from outside via E-mail. However, damages can be caused by internal threats such as data leakage via E-mail.



## Email is the most prevalent method of financial Trojans distribution

Distribution for financial Trojans has increased steadily. It mainly relies on spam email with malicious droppers attached and web exploit toolkits.

Document macro and JavaScript downloader Detections per month in 2016



(source : Symantec)

## To respond to Spam and Ransomware, we need to change



To keep up with the latest social and economic trend, appropriate countermeasures against the security threats have to be taken

## The Leading Email Security Suites for Your Secure Messaging

SpamSniper is the leading email security solution located in front of mail server to perform mail proxy, virus firewall and filter all inbound and outbound emails in real-time.

### Mail Server Protection

- Performs volume filtering and server protection by traffic and transmit control on SMTP Listener handling basis.
- Reduce mail server loading by removing junk mails.

### Spam Blocking

- Secure the best detection rate and accuracy for filtering by 19 algorithm and 4 layer filtering control engine

### Malware Protection

- Provides fast and accurate virus mail judgment and respond by using the global Cyren anti-virus engine.

### Data Loss Prevention

- Filters all outgoing mail text and attachment contents to prevent confidential data loss.
- Approval procedure, auto link conversion and encryption for transferring file attachment.

### Mail Traffic Control

- Able to manage the traffic occurred from mail to reduce operation cost and control the network.

### Mail Server Error Mgmt.

- Operates SpamSniper Central Control Center to monitor server error occurred and provide alert service.

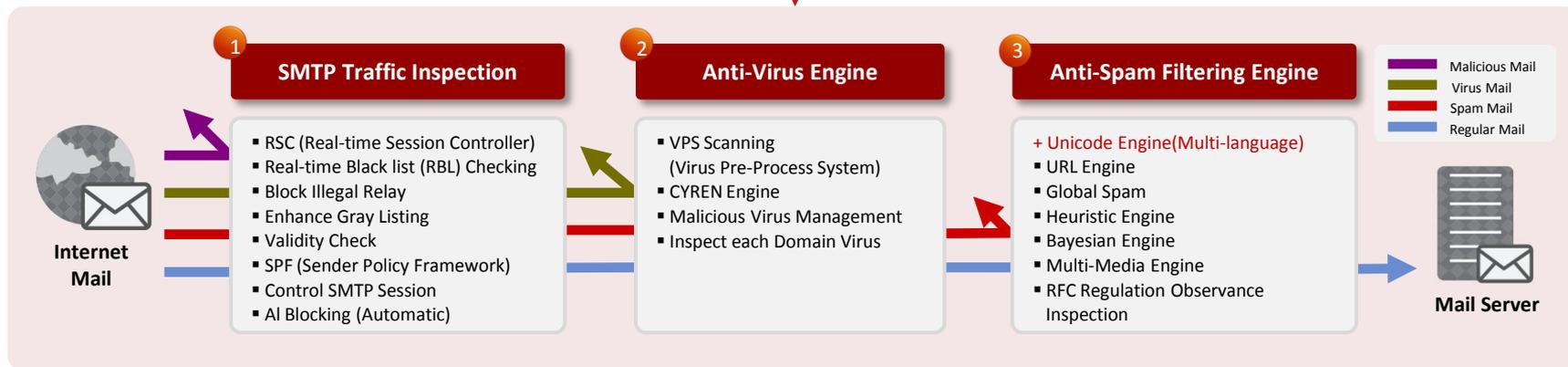
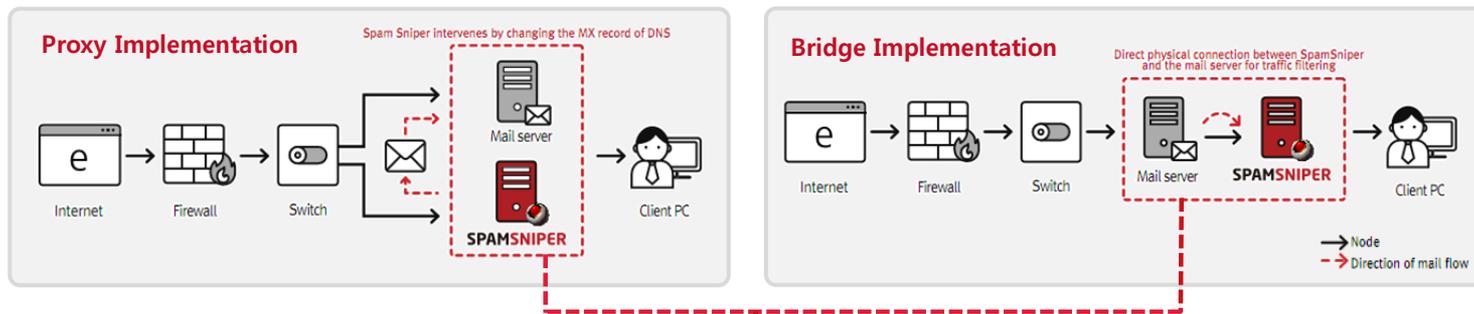


**No. 1 Market Share** in Korean Market

Secure **over 4,000 Corporates & Publics** in **Korea, Japan** etc.

**Korean CC (Common Criteria) acquired**

**Korean CC (Common Criteria) acquired**





## Powerful Filtering Engine

- 19 Algorithm and 4 Layer of filtering engine for better and accurate filtering performance
- Heuristic/Bayesian Engine, AI-Blocking, Media Filtering Engine



## Comprehensive Protection

- Block DDoS attack, mail bomb and illegal relay
- Control traffic and transmission on SMTP Listener Handling basis
- Advanced malware protection to block new inbound mail viruses.



## Accurate Detection

- False Positive Rate (filtering normal mail as spam): 0.00002~0.00003
- False Negative Rate (not filtering spam as normal mail): 0.001~0.002
- Pattern Update in Real-time



## Outgoing Message Control

- SpamSniper enables filtering for outbound emails with anti-virus engine and protects from false sending.
- Set one or more predefined policies to prevent confidential data from leaving your network.



## Flexible & Extensible

- Supports to deploy SpamSniper appliance in either proxy or bridge mode
- Software installer and virtual image available to install in your hardware
- Fits to service providers by managing multiple domains or mail servers



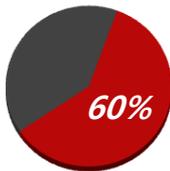
## Strong Presences

- SpamSniper captures more than 60% market share in Korea.
- Secure 4000+ corporates and government in worldwide.



## Korea's Most Trusted E-mail Security Solution

SpamSniper is a Korea's No.1 integrated E-mail security solution that rapidly predicts the evolution type of spam mails and respond to advanced spam mails with its technology. Over 60% of market share of SpamSniper in Korean market shows how reliable the solution is.



SpamSniper  
Market  
Share  
in Korea



## R&D Partnership with Global IT Vendors

With 20 years' worth of know-how in R&D with Global IT Vendors, we succeeded in acquiring accurate spam filtering skill and service stability. We has created added values to SpamSniper with forming partnerships with TrendMicro, FireEye, Ahnlab, etc. Now we are expecting to make a progress in Vietnam with rich E-mail database in Vietnamese.



## Customized and Stable Solutions

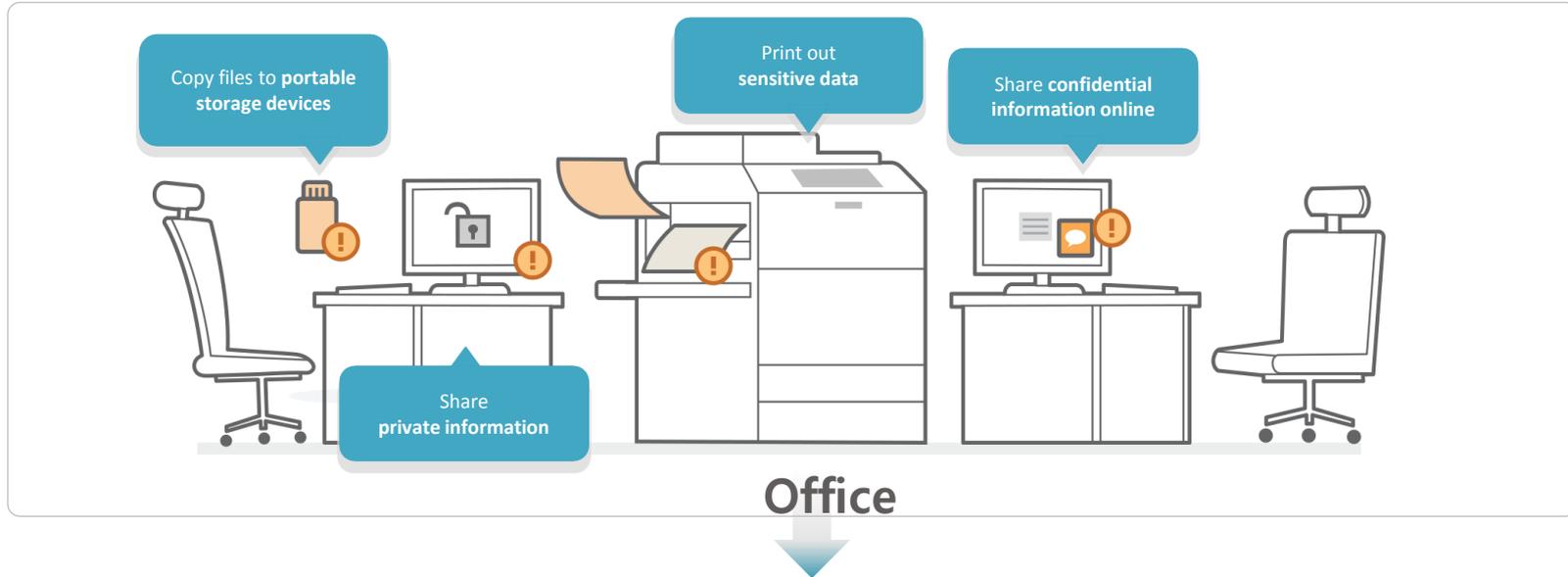
80% of the company customer of SpamSniper has been using the solution more than 7 years for its secure e-mail environment. Providing customized solution and 24/7 stable service for long term is not easy even with rapidly changing business and technology conditions today. We will do our utmost for customer satisfaction as always.

## Commitment to R&D Cooperation w. Vietnam

Korea and Vietnam have similarities in culture and even IT environment. Korea has been through same process of IT development Vietnam is facing currently. We hopefully cooperate with Vietnam so that the mature technologies of Korea and the vibrant developing Technologies of Vietnam bring together a great synergy.

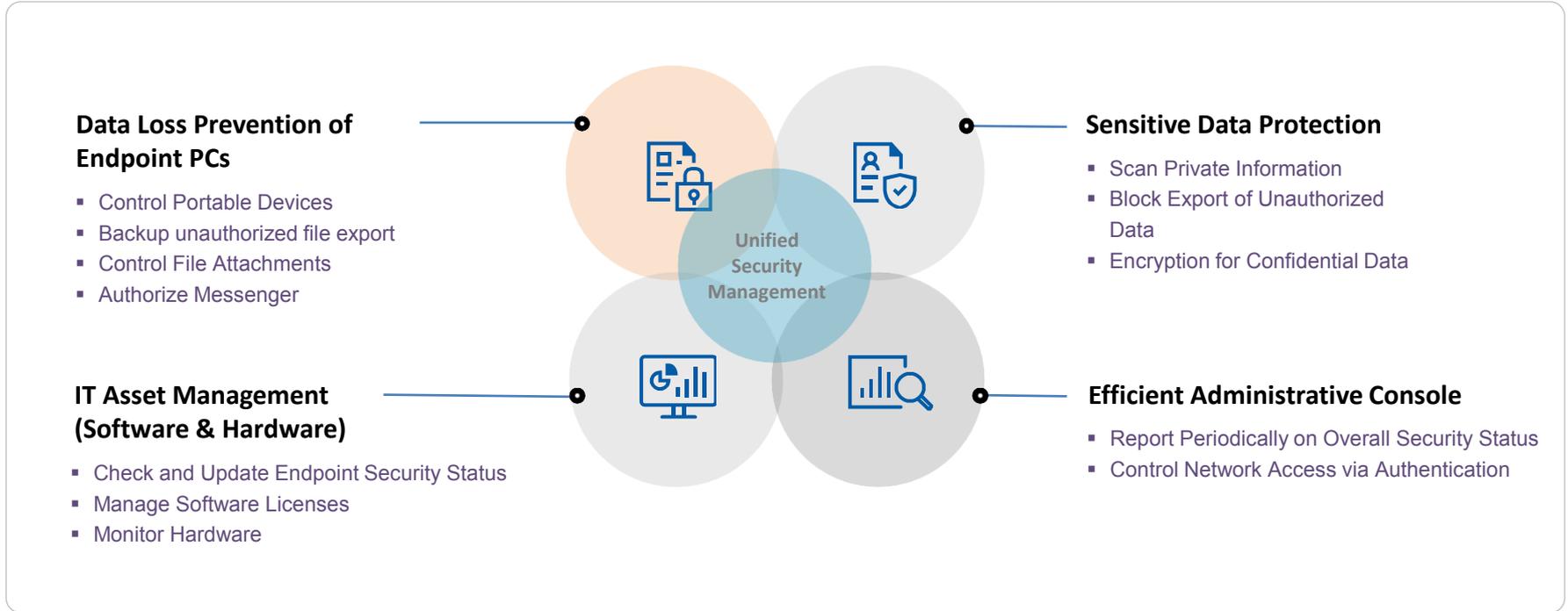


Most issues with data including private information, confidential documents, and client databases are caused by company employees while **they transfer** files from endpoint PCs to portable devices or via email. SMBs often don't protect important data because they lack the resources needed for security. Unlike enterprises, SMBs have trouble bearing the costs of new security solutions and the IT experts **to** manage them.



Do you have trouble protecting your company's sensitive data?

A DLP (Data Loss Prevention) solution offers the best way to protect company or client data and block data leakage caused by employees. OfficeKeeper provides unified security management with multiple security features.



## Control Outgoing Data & Prevent Possible Data Leakage



### Portable Devices

USBs, External Hard Drives,  
Smartphones, CD-ROMs



### File Attachments

Via Email, Web, Online



### Wireless Networks

Wi-Fi, Bluetooth Access



### Messenger

Instant Messenger,  
Remote Access



### Printouts

Management,  
Customized Watermark

## Prevent sensitive data loss



### Monitor in Real Time

Monitor outgoing data and get  
report periodically



### Filter Harmful Websites

Different website access  
managements for different users



### Detect Private Information

Scan sensitive data  
in documents in real time



### Encrypt All Data

Encrypt and decrypt  
documents



### Capture All Outgoing Files

Backup original outgoing data files

## Comprehensive IT Asset Management



### Security Status

Check and Update  
Endpoint PC security



### Hardware

Endpoint PCs, Monitors,  
External Hard Drives



### Software Licenses

MS Office, Anti-Virus  
Solutions, Copyrights



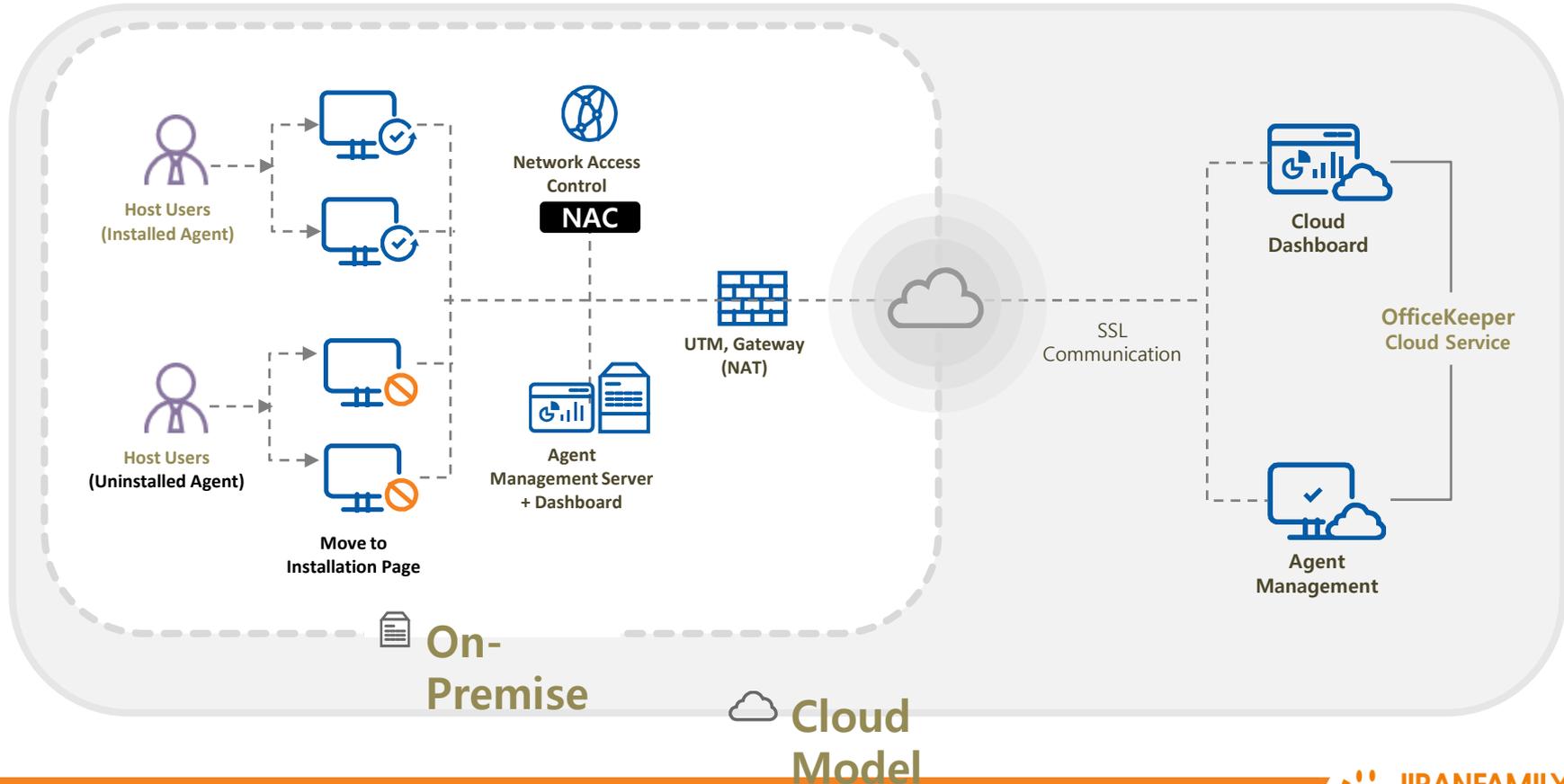
### Export Status

PCs and Laptops  
(based on IP)



### PC Power Management

Trigger Power Save Mode or  
Turn Off Remotely

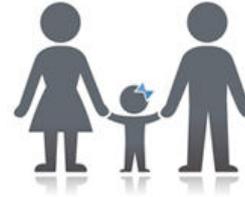


# The core of financial business security is to protect privacy

## Personal Information

### (Personal Information Protection Act 1, Article 2)

Information that pertains to a living person, including name , resident registration number, and video by which the individual in question can be identified,(including information by which the individual in question cannot be identified but can be identified through simple combination with other information);



## Types of Personal Information

### Personal Descriptions

Name, Resident registration number, Address, Phone number, Family status

### Mental Information

Preference and tendency, Religion, Sense of value, and etc.

### Financial Information

Income, Debit and Credit Card Numbers, Bank account Numbers, Credit Rating/ loan records and etc.

### Physical Information

Fingerprints, Genetic information, Iris, Health Status, Medical records, and etc.

### Social Information

Education information, Military service information, legal information, labor information, and etc.

### ETC

Workplace, Employer, Work Experience, Record of reward and punishment, Record of job evaluation , and etc.



**Personal Information must have been included in all Financial system**  
**LAW ON NETWORK INFORMATION SECURITY(Law no.: 86/2015/QH13)**

# Introduction of major solutions



## 1st in domestic references, search personal information stored on PC and real-time notification Personal information protection solution for PC **PCFILTER**

Search documents containing personal information on PC (scan all types of document files based on document filtering engine, best functionality in Korea)  
Personal information inspection, Scheduled inspection, Encryption, Compression, Complete deletion, Transfer to Quarantine, Real-time alert Technical measures  
Using the NIS accredited encryption/decryption module  
Personal information leakage prevention function (option can be selected)



## No. 1 'on-nara' share, Prevent personal information disclosure on homepage and filter out abusive posts Personal information & harmful web posting filter solution **WEBFILTER**

Filter and block board posts, attachments on the homepage  
Overcome disadvantage of Inline. Supports multiple web server covers with SDK  
Filtering personal information and harmful information based on a self-developed HSF engine  
Responding to the disruption problem only in Korea



## Korea's first personal information diagnosis technology patent, Non Agent diagnosis of personal information on server Personal information diagnose solution for Server **SERVERFILTER**

Filtering personal information in various types of servers such as DB and web server  
Troubleshooting server load and failures issue with non-agent inspection (Windows Server available)  
Check server data transfer without slowing down network and services  
Provide reports after server diagnosis and provide administrator action



## Samsung Electronics Group and the Best Market Share in Korea Personal information encryption solution for DBMS **Secure DB**

Encryption of social security number, changing the encryption and algorithm.  
Password Module Certified by the National Intelligence Service  
Provide strong security for resident numbers



Korean CC (Common Criteria)  
acquired



## Major functions for PCFILTER



### Personal information detection

Scans documents retain Personal Information within PCs (including compressed files) with rapid indexing.



### Real time notification

Real-time monitoring of Personal Information that can be exposed in no time, and notifies awareness of inclusion of Personal Information.



### File encryption

Uses the NIS certified cryptographic module to enable encryption/decryption of Personal Information.



### Complete file deletion

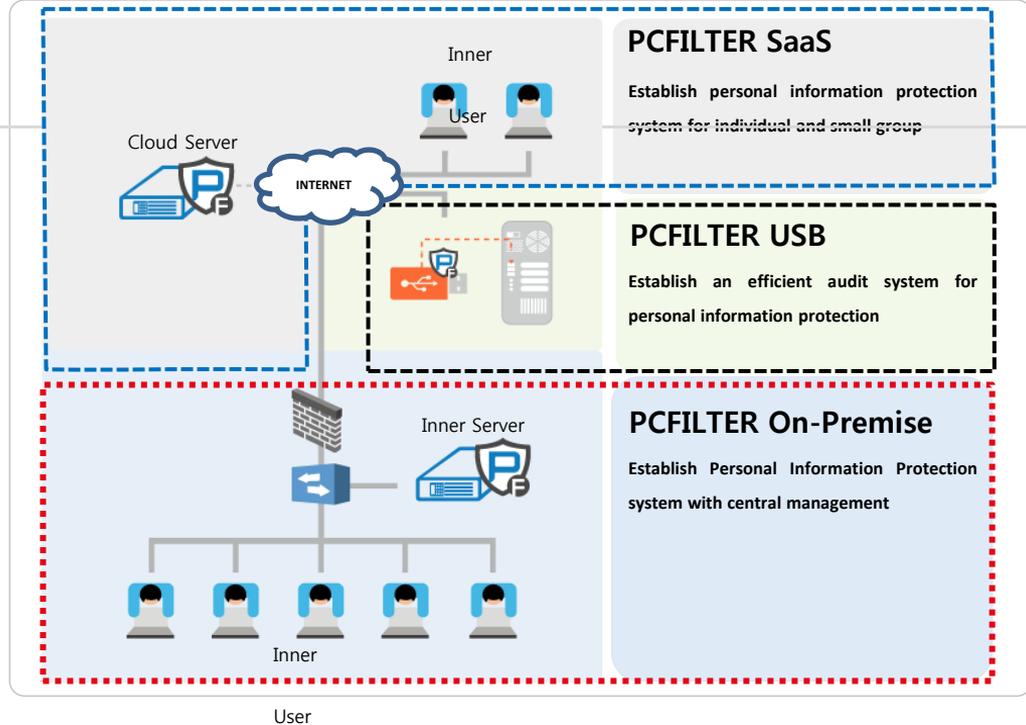
Over 7 times destructions leveraging International standard algorithm enable unrecoverable complete file deletion.



### Personal information status report

Provides the status report of Personal information retention per group and per users, the statistics of activated agents, the activity log of agents, and etc.

## Product configuration



## Major functions of WEBFILTER



### Blocking Personal information post

Blocks identifiable information such as resident registration number, foreign registration number, passport number, driver license number.



### Blocking inappropriate post

Blocks harmful posts including manager setting keywords and abusive languages via HSF(Hyper Smart Text) in-house development engine with intelligent post blocking function.



### Blocking attachment file upload

Controls specific blocking policy settings and regulate the blocking strength (resident registration number) for each server.



### Management of Blocking Policy

Blocks / excludes by attachment extension with filtration of all general documents.



### Manage bulletins and posts

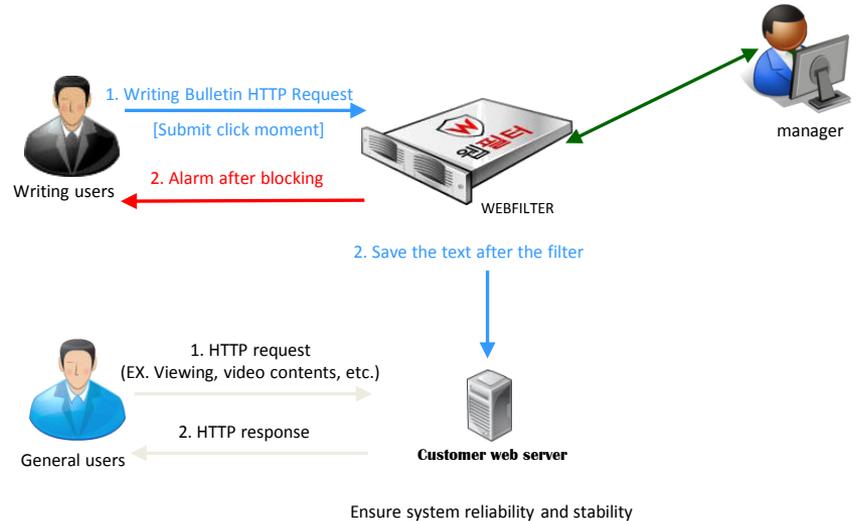
Management function for blocked posts and per bulletins.



### Nonstop error handling

Operates By-pass in case of WEBFILTER failure, and provides SMS alarm to Manager of block system without affecting web service.

## Product configuration



## Major functions for SERVERFILTER



### Personal information inspection on Server

Inspects various type of identifiable information on server intelligently via HSF(Hyper Smart Filter) engine.



### Image file inspection

Image section inspection function on image files (JPG, TIF, BMP, GIF, PNG , and etc.) and PDF documents leveraging OCR function.



### File Encryption and complete deletion

Handles personal information retention files with simple operation such as file encryption and deletion.



### Network traffic control

Provides Bandwidth control function to decrease the network traffic during server inspection.



### Statistics and Report

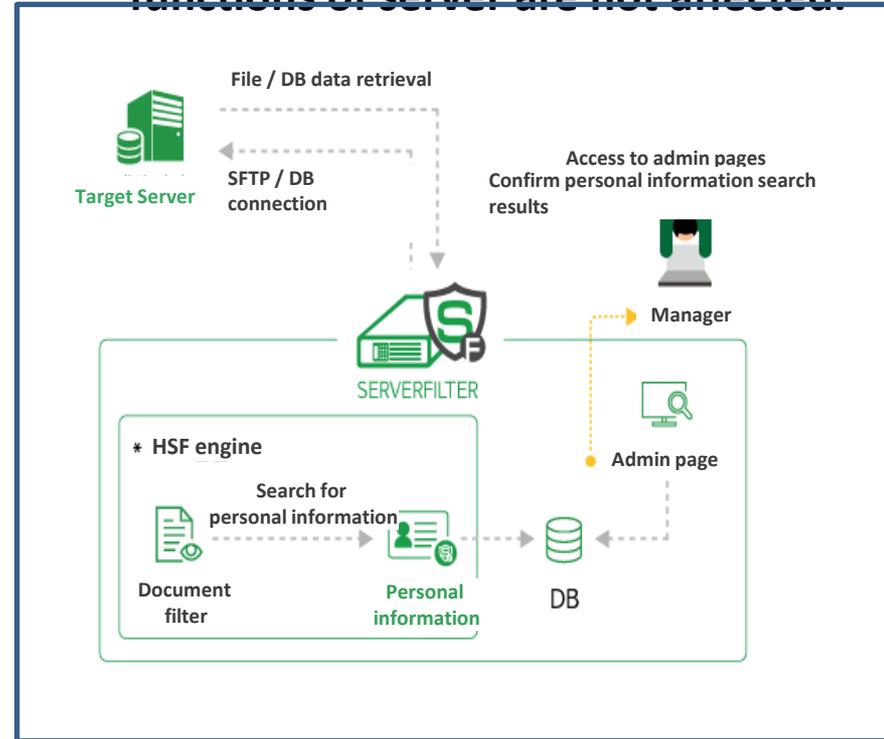
Provides detailed statistics of personal information inspection results, and reports on administration page.



### Scheduled inspection and Policy Settings

Provides various personal information inspection policy settings for target server and scheduled scan with scheduling.

## When serverfilter searches, the functions of server are not affected.



# Introduction of SecureDB



## Major functions for SecureDB



### Data Encryption

Execute encryption on specific DBMS Column selected by the security administrator



### Access Control

Concedes roles to developer, user, admin(includes DBA) by the security administrator and RBAC based access control.



### Audit Trail

Provides security administrator focused tools which outputs various statics graphs about GUI based DBMS access and service related events.



### Easy Implementation & Stability

Applying independent security systems for all environments(OS, Application Developments Platform, DBMS).

In case of failure in the module, doesn't affect the DBMS service.

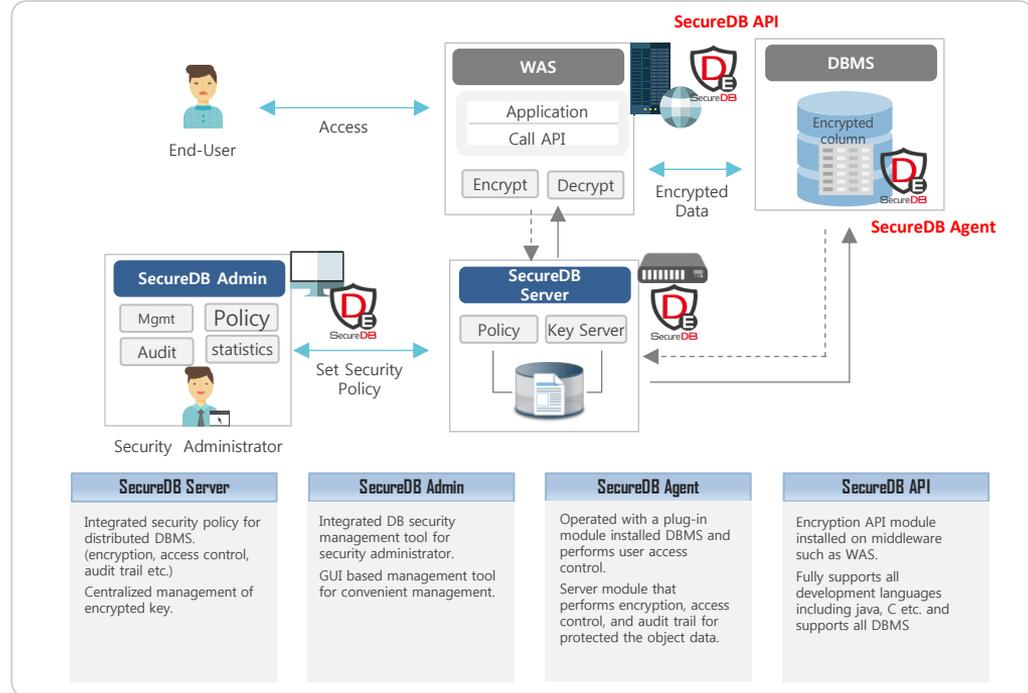


### Verified Security History

Encryption module verification module loaded and National information agency certified

Index encryption, encryption key supervise and access control technique patented product.

## Product configuration



# Thank you

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