

The best **THREAT HUNTERS<sup>+</sup>** ever!

Overview about



01

Facts





CEO/Founder

Mr. Yong-Hwan Roh

Pre-**A**

Finance level

**6**

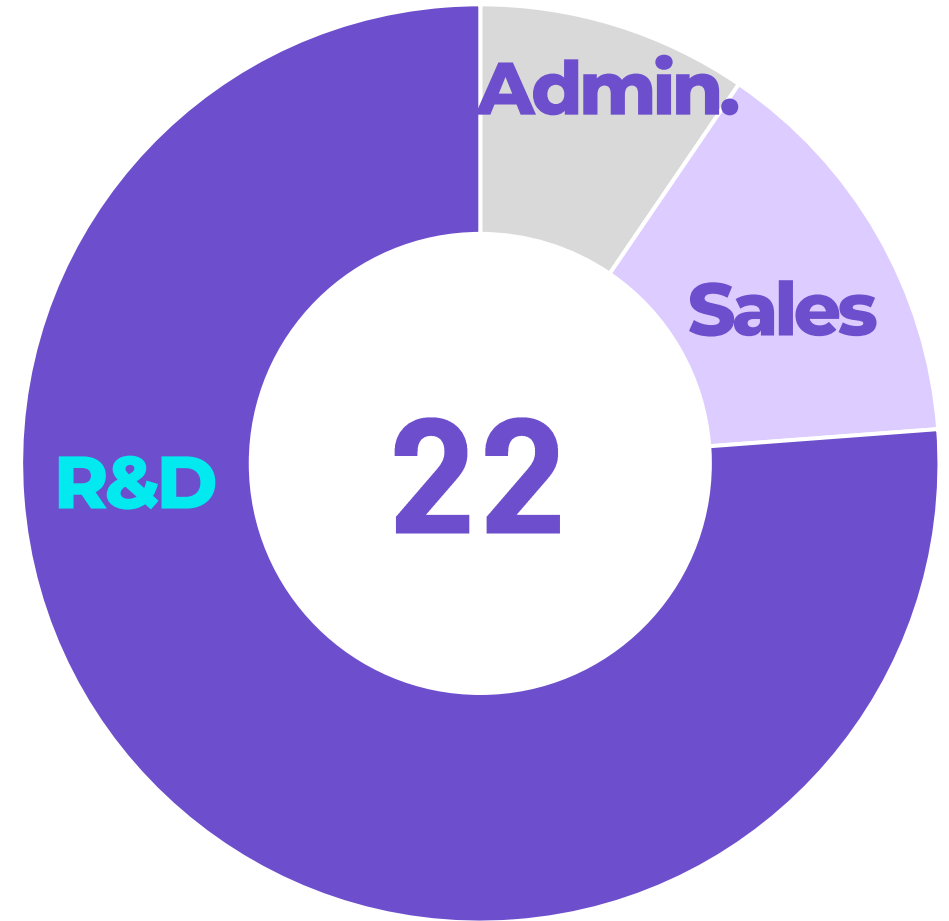
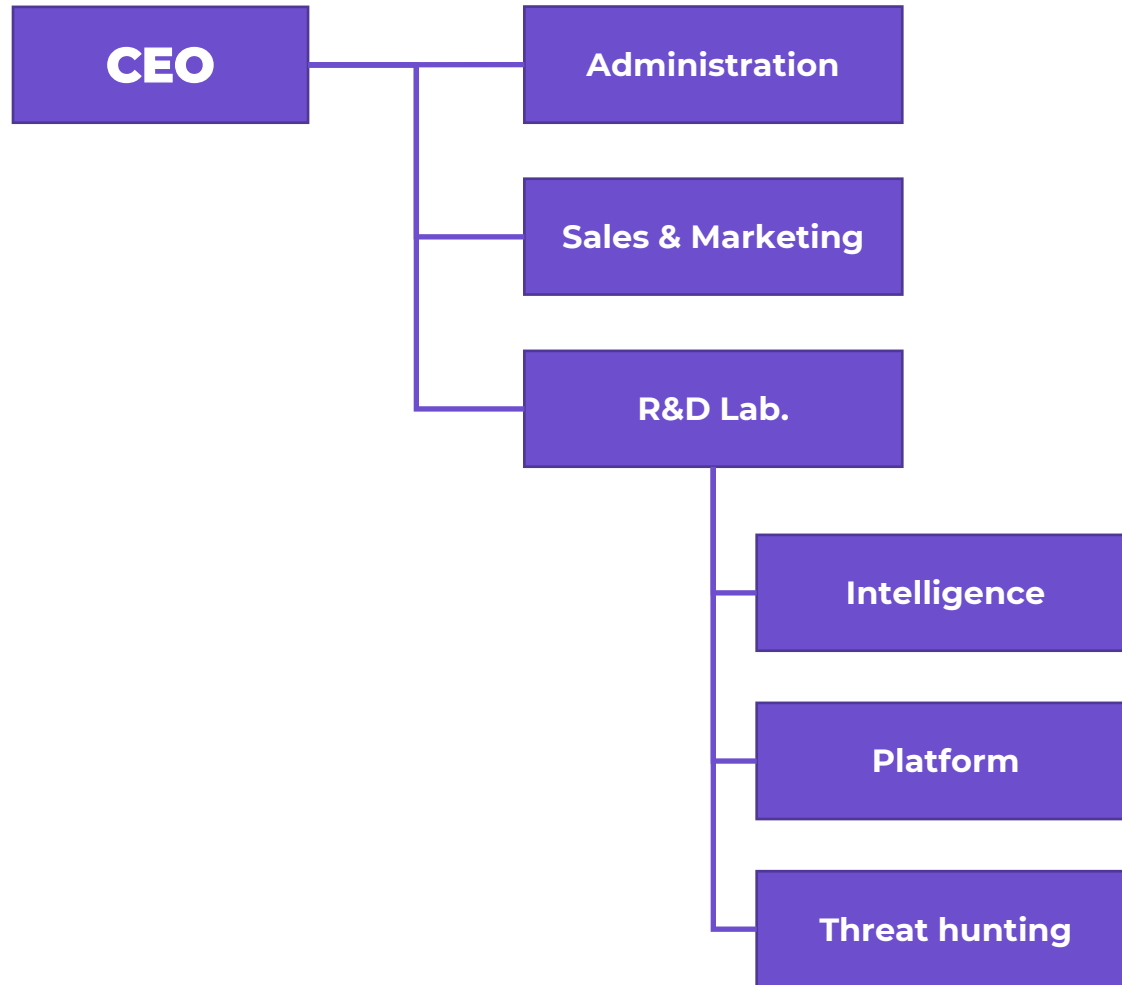
years running

**22**

hunters working

02

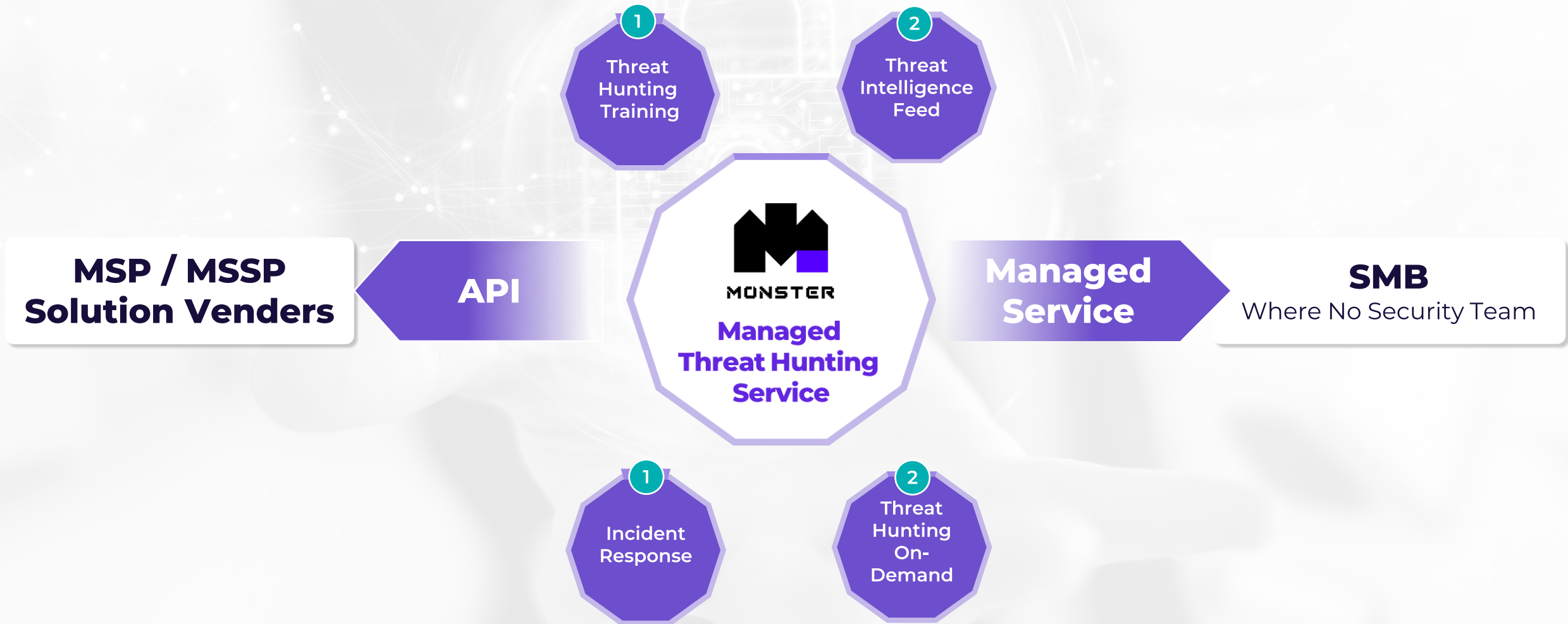
# Teams





03

# Business



## ✓ Customers



Consumer

AhnLab

JIRANSECURITY

SAINT SECURITY



Military

Hanwha Systems

LIG Nex1

Agency for Defense Development



Public

LH KOREA LAND & HOUSING CORPORATION

INNOPOLIS Foundation  
연구개발특구진흥재단

KISA Korea Internet & Security Agency

NSR 국가보안기술연구소  
National Security Research Institute



Overseas

uppsala security

	ADD Korea	developed intelligent cracking inference and cyber threat analysis system
2018	Saint Security	agreed technique interlocking for commercial threat intelligence to detect malignant code
	ADD Korea	developed APT attack simulator
2019	Ahn Lab.	agreed to share malignant detection technique and database usage
	Uppsala security	developed UppWall with Monster platform
	ADD Korea	Threat data creation to evaluate threat detection system
	NIS Korea	supplied Monster as platform
2020	ADD Korea	developed predict technique and intelligent analysis of cyber threat
	ADD Korea	developed technique of APT attack detection and real-time memory analysis
	KISA	nominated entrepreneur for cloud security advanced service
	Innopolis Foundation	nominated entrepreneur to consolidate capability for technical transfer business
	KISA	Bigdata AI dataset build for cyber security
	KISA	System build for active cyber threat information mining and supplied Monster as platform
2021	LH Korea	Bigdata platform project with Monster
	Korea cyber CMD	build structure for cyber threat analysis and development research
	ADD Korea	Cyber war simulation project, Cyber cracking inference project and etc.
	Ashin I	Co-developed agent for Nanny-On based Monster



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# Technology



## End-point agent

### Real-time data collection

- Monitoring all activity on the system in real-time
- Collecting behavioral data for threat analysis
- Scrapping volatile data

### High capability

- Light monitoring engine with 0.2Mil case per Min.
- Minimization system loading with data reduction
- Patent registered in Korea & the United States

### Response and liaison

- Real-time network control with connecting server and online policy
- Immediate response on incident threat

## Solution



### Any-Office (Threat management for remote-working)

- Threat solution for remote-work management
- Control end-points based on White-list/black-list
- Cyber threat detection solution in remote-working system
- Bridge cyber security solution with ordinary enterprise solution



## Business

- Pilot implementation for Korea Land & Housing Corporation for outsourcing management
- Prospective continuous adaption



- Security solution provider in Singapore
- : End-point monitoring & control for Sentinel (2019)



- Used for AI learning data set creation
- Provided end-point monitoring agent to active honeypot system building



## Behavioral data analysis

### Data processing & storing

- Create and save meta data
- Manage data pipeline

### High-capacity distribution processing

- Monster data platform API
- API to access independent data
- Horizontally extendable distributed database
- Enhanced bigdata processing

### Threat detection

- Real-time, persistent & repeated threat detection
- Detection based threat intelligence and TTP(Tactics, Techniques, Procedures)
- Search anomaly behavior with Machine Learning/AI
- Transferred 2 patents
- Registered 1 Korean patent
- Applied 1 U.S. patent

## Threat intel.

### Technique advancement with intelligence

- Hold technical property with national security lab. ( 2 patents & 1 TTA cert. )
- Intelligence service associated with Saint security and malwares.com
- Malicious code data-sharing agreed with Ahnlab.

### Detection/Response advancement with Data

- R&D projects with military and national defense cybersecurity
- Cloud security service enhancement project with KISA
- MITRE Attack Evaluation participation

AhnLab

NSR  
국가보안기술연구소

SAINT SECURITY

한화시스템/시스템

국 방 과 학 연 구 소  
Agency for Defense Development

LIG Nex1

KISA 한국인터넷진흥원

## Business

### End-point threat management service (Pilot)

- Self-counter threat security management service (Lotte Data Comm.)
- SOC security service association in SMB (Ahnlab)
- Threat management service on systems by partner (LH)
- MOU on end-point threat management service to US (WeBridge, Inc.)

AhnLab

uppsala security

we=bridge

롯데정보통신

CM  
CULTURE MARKET

KISA 한국인터넷진흥원

LH 한국토지주택공사





## Adversary emulation

### Single attack simulation

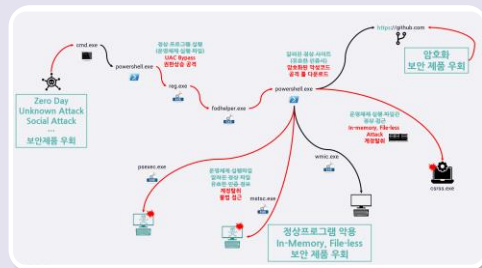
- Single attack simulation in MITRE ATT&CK matrix

### Attack scenario simulation

- Attack TTP(Tactics, Techniques, Procedures) simulation in Cyber range according to actual APT attack

### Data collection on attack behavior

- Improvement of vulnerability and creating threat analysis data through attack behavioral simulation



## Solution



### Attack simulation based on MITRE ATT&CK

#### Simulation on APT attack scenario

- Utilized in MONSTER platform for detection engine advancement
- Remediation adaptive UI/UX to scale up private and commercial



LIG Nex1

AhnLab



ATT&CK®



## Business

### Applied to dataset creation service

- Participants in Military cyber security R&D projects
- Cybersecurity Bigdata AI dataset build-up (KISA, 2020)



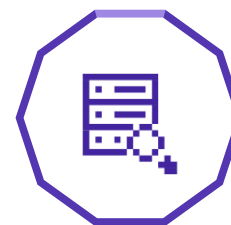
### Education of advanced cyber threats

- Applied military cybersecurity education & training programs
- Cyber threat hunting training on MITRE ATT&CK



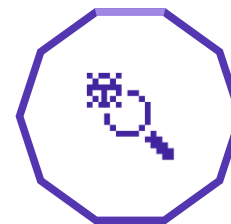
# Why Data on Cloud is BETTER?

**Data on Cloud** is authentic power of SOMMA.



## Threat visibility

- Incident response readiness on attack
- Precise analysis and trail of breach



## Persistent threat detection

- Search past threats in reverse with the latest intelligence
- Analyse the past data with present technique



## One take, Multiple shot

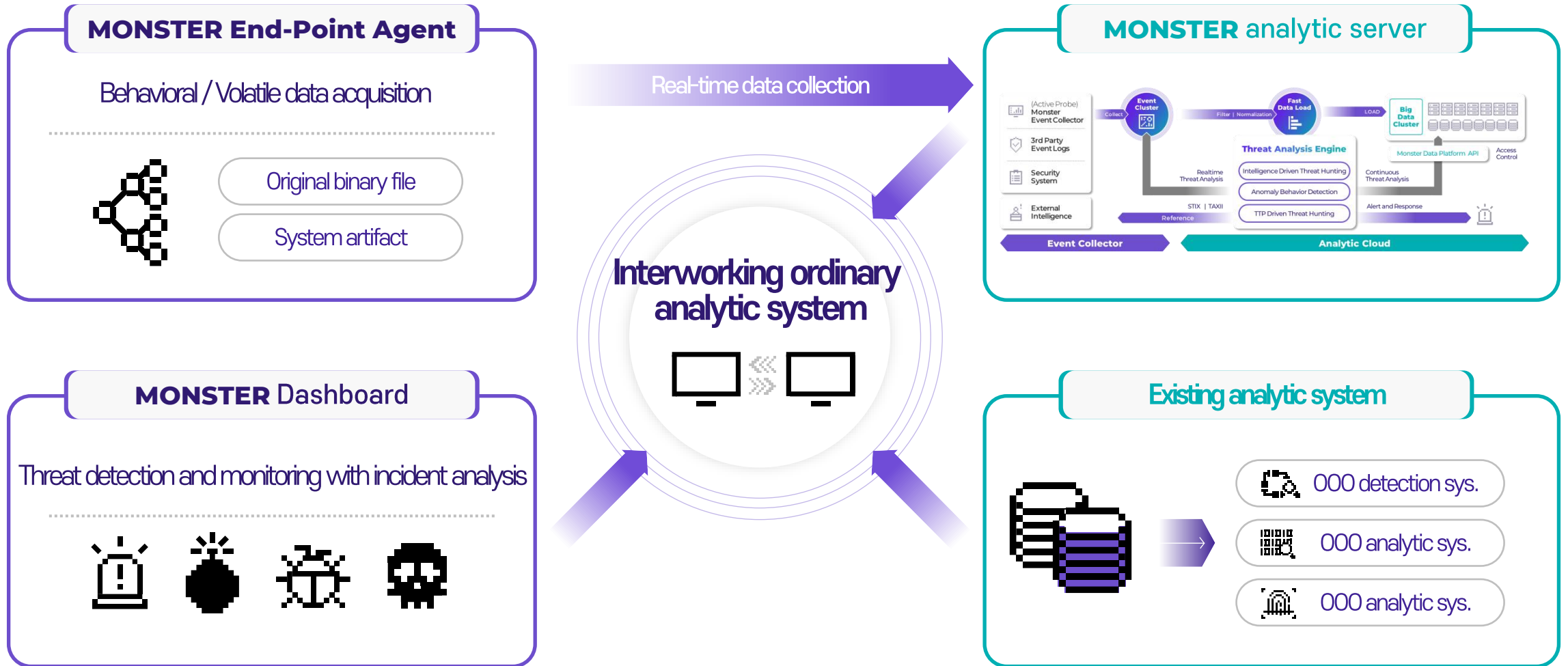
- Detection with intelligence
- Threat detection with TTP
- Application based on ML/AI

#

# Reference



# Monster As A Platform (Custom Endpoint Threat Detection and Response)



# Monster As A Platform (AnyOffice, Management for Remote work)

## ANY-Office

Control agent to executable range

### Process control

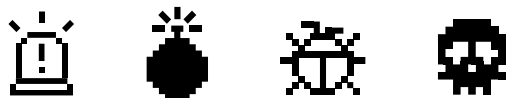


### Network control



### Threat response

Response anomaly behavior



Policy management (On-premise)

### ANY-Office

Security guidance

Setup & policy DB

Management monitoring

Monitoring dashboard

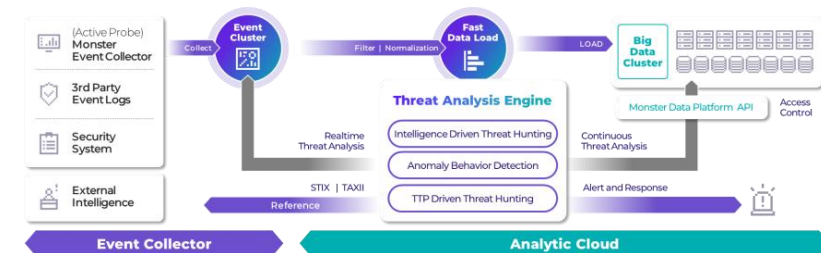
Configuration management

Policy management

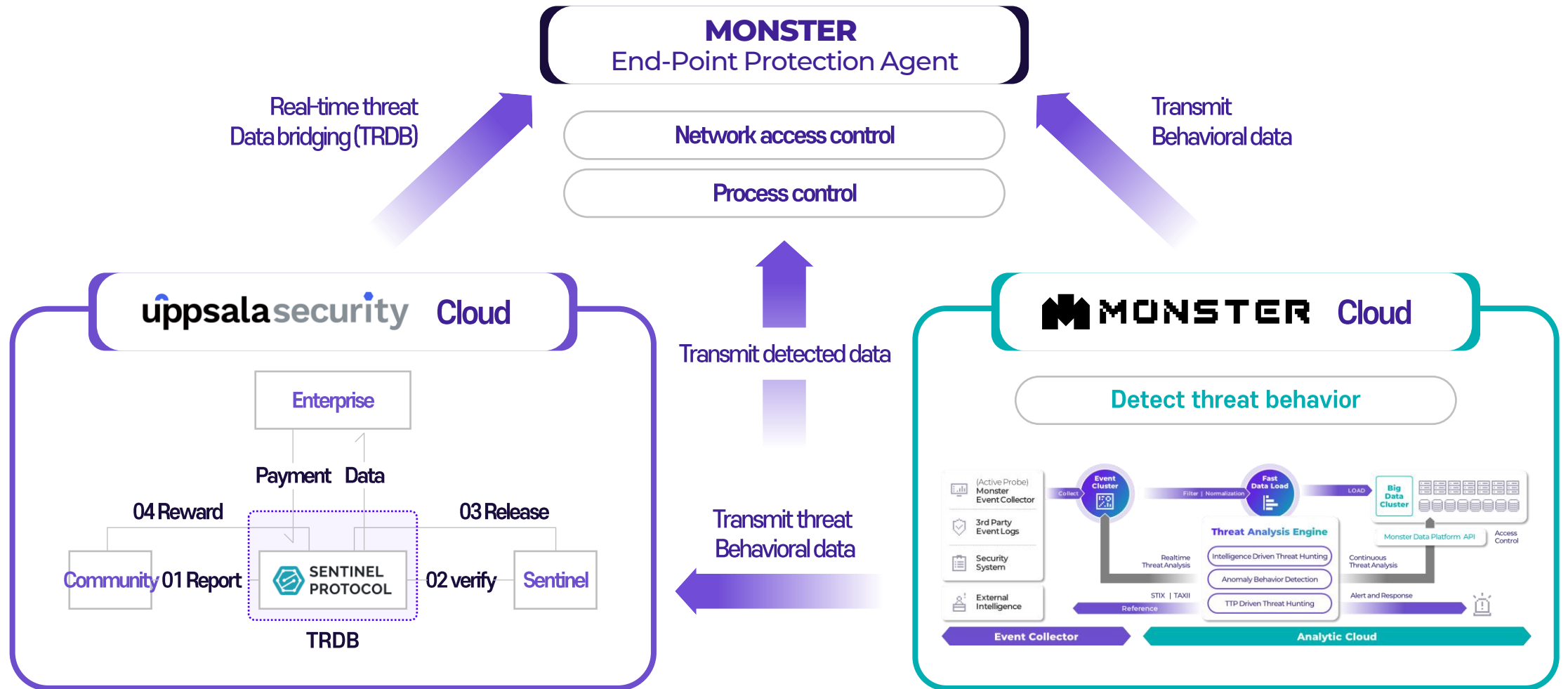
End-point threat management (SaaS)

### MONSTER

Behavioral data



# Monster As A Platform (Uppwall EPP with Uppsala security Inc.)





The Best Threat Hunters Ever ! SOMMA

# Thank you

MONSTER

CHEIRON

ANY-OFFICE

SOMMA <https://www.somma.kr>

