



## KB Life Insurance



### Overview

#### Industry

- Insurance

#### Challenge

- Safeguarding customer data
- Limited network visibility
- Inherited risk from supply-chain
- Concerned about sophisticated zero-day attacks

#### Results

- Real-time threat detection
- Ability to remediate threats in nascent stages
- 100% network visibility
- Intuitive Threat Visualizer

### Business Background

Headquartered in Seoul, South Korea, KB Life Insurance was established in 2004 and belongs to one of the country's largest financial groups. The company serves over 400,000 customers across 34 branches offering life, health, and critical illness products. KB Life Insurance holds large amounts of personal and financial customer information in order to provide its expert service.



Ensuring every customer's data is secure at any given moment is imperative, but challenging without the right technology. Even with a wealth of legacy security tools in place, we realized that only AI can help us prepare for tomorrow's attacks.

**Daejoong Kim, CISO**



### Challenge

The cyber-threat landscape is constantly evolving. Cyber criminals are using increasingly sophisticated methods to infiltrate networks and compromise data. KB Life Insurance works with a number of third party agencies, including logistics suppliers, who have access to their network. Despite employing traditional security tools at the perimeter, KB Life Insurance was concerned about possible risks inherited from its vast supply chain. A data breach could incur financial losses and inflict reputational damage, potentially damaging stakeholder trust.

In addition to insider threat, KB Life Insurance was aware of the rise in unpredictable zero-day attacks and fast-spreading ransomware, and wanted to bolster their defenses against these novel threats. The company already had many existing security tools in place, including firewalls, sandboxes and intrusion prevention systems (IPS). Although providing essential cyber hygiene, these signature-based tools are incapable of protecting an organization's network against advanced threats.

## Solution

To combat these challenges, KB Life Insurance deployed Darktrace's Enterprise Immune System at the core of its network. Leveraging probabilistic mathematics and machine learning, Darktrace's AI algorithms are able to learn KB Life Insurance's 'pattern of life' across every user, device, and network. After establishing a sense of 'self', the technology detects threatening abnormalities emerging across the network in real time, including insider threat and 'unknown unknowns', allowing the security team to disrupt attacks before they cause damage.

After a prompt installation, KB Life Insurance could immediately see all its network traffic mapped onto the intuitive Threat Visualizer, which provides complete visibility of the entire infrastructure, including IoT and rogue devices. Darktrace's self-learning approach ranks each threat by its deviation from 'normal' activity, limiting alert fatigue and enabling KB Life Insurance's team to prioritize only the most pressing threats.

A few weeks after deployment, the power of Darktrace's AI technology was demonstrated when it discovered an authorized network user behaving in a highly anomalous way. It transpired that the user's desktop was connecting to a malicious website without triggering any legacy security controls. Using Darktrace's AI, the security team were able to identify the abnormal activity and stop the connection in its very early stages, before damage was done.

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We needed a technology that could proactively seek out threats from within. Darktrace's AI goes above and beyond in solving this challenge. ”

Daejoong Kim, CISO

## Benefits

Armed with Darktrace's Enterprise Immune System, KB Life Insurance can autonomously defend against pernicious cyber-attacks and subtle insider threat. As it does not depend on any prior assumptions of what 'bad' looks like, the self-learning solution is also uniquely capable of identifying never-before-seen threats.

As a renowned Korean insurance firm, the company's move to AI-led defense is pioneering the way for other insurance providers to enhance their security and stay one step ahead of today's sophisticated threats. Darktrace's self-learning approach fully-equips the organization to catch stealthy threats, such as morphing malware and 'low and slow' trust attacks in any corner of its network, in real time.

With unparalleled visibility provided by the Threat Visualizer, KB Life Insurance has fresh confidence in its ability to detect and respond to in-progress threats.

"Powerful yet very intuitive, Darktrace helps our security team communicate with the business' non-security experts, ensuring security remains a board-level issue," commented Kim. "The Enterprise Immune System now plays a vital role in safeguarding KB Life Insurance's critical assets and empowers us to effectively mitigate threats, regardless of how unpredictable they may be. We look forward to exploring the full potential of Darktrace in autonomously fighting back against today's fast-moving threat landscape."

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