# DARKTRACE

# Ipreo

## IPREO

## Overview

### Industry

○ Financial Services

### Challenge

○ Protect critical assets and sensitive customer data

○ Defend against sophisticated cyber-attackers and fast-evolving threats

○ Maintain reputation as a world-leading financial services firm

### Results

○ Real-time threat detection

○ Defense against internal and external threats

○ Complete network visibility

## Business Background

Founded in 2006, Ipreo is a world-leading software company operating within the financial services. The firm provides technology, data and analytics to banks and investors in order to facilitate lending from origination to completion. Headquartered in the United States, the company has over 1000 employees, serving clients across the globe. Jointly held by Goldman Sachs and Blackstone, the company works with a wide range of organizations including banks, public and private companies, institutional and individual investors, as well as research, asset management and wealth management firms.

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>
> **Chris Ampofo, CISO, Ipreo**

## Challenge

As a global organization facing a threat landscape increasingly characterized by sophisticated, complex and subtle attacks, Ipreo had recognized that cyber defense was a strategic priority. It wanted to demonstrate to its customers that critical data and internal systems were being protected in line with this challenge.

The company's security team also understood that the traditional tools that it was using were no longer sufficient for meeting its security needs. Having identified the fundamental limitations of policy or rule-based security controls, such as firewalls, the company was seeking a shift away from traditional perimeter defense.

Furthermore, Ipreo was keen to address the risk posed by insiders, acknowledging that the sensitive nature of its work could make it vulnerable to internal threats, whether malicious or non-malicious. Consequently, the firm was seeking an innovative approach that would provide it with a better understanding of employees' activity and complete visibility into its complex, global network.

## Solution

Ipreo decided to deploy Darktrace's Enterprise Immune System technology to address the combined challenge of internal and external threats. Powered by machine learning and mathematics developed by specialists from the University of Cambridge, the technology is able to monitor the behaviors of all users, devices and the network as a whole to establish a 'pattern of life' specific to Ipreo's environment.

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> "
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Darktrace's 'immune system' technology uses the unique sense of 'self' to automatically detect abnormal behaviors in real time, which may be indicative of a cyber-attack, strengthening the organization's ability to respond efficiently and mitigate potential risk. As a result, the technology is able to defend against the zero-day threats and other unidentified attack vectors that bypass legacy security tools.

Chris Ampofo, the Chief Information Security Officer at Ipreo, explains why they chose Darktrace: "Other cyber defenses are more policy-based and you have to tell those devices what to do, which frustrated me because by the time a zero-day virus hits, it's too late. But Darktrace's Enterprise Immune System learns your behaviour and what's normal and flags up abnormal activity, before it becomes an issue."

Ipreo also uses Darktrace's Threat Visualizer interface, which gives the company a 3D graphical visualization of all activity occurring within its network across its global offices. Furthermore, weekly Threat Intelligence Reports produced by Darktrace's leading analyst team allow Ipreo's engineers to better monitor vulnerabilities within its network and prioritize potential threats, significantly reducing the workload that legacy systems typically entail.

## Benefits

Ipreo saw immediate results after installing the Darktrace appliance and, thanks to Darktrace's 'immune system' technology, is now able to stay ahead of emerging threats, catching them before they develop into genuine attacks.

"We know exactly what is going on within our organization because now we have these tools that will tell us about threats before they actually cause damage," said Chris Ampofo. From a business point of view, Ipreo is now able to assure its clients that it has the necessary controls in place to protect their data responsibly.

The critical benefit that Ipreo derives from Darktrace comes from the solution's underlying, advanced machine learning capability, which autonomously learns what is 'self' for the organization, and every device and user. As the company grows and introduces new clients and services, Darktrace's 'self-learning' technology constantly adapts with the evolving business environment, keeping pace on fresh abnormal behaviors that may occur.

"One of the great things about Darktrace is that it grows with you," said Chris. "The 'immune system' approach really suits us, because as we introduce new services, it will learn what is 'normal' again, so we don't need to go and invest in a new system later on."