Deep Learning & Behavioral AI-based Security

Proactively identify suspicious activities and block attacks before they enter your networks and devices, with Teneo's Deep Learning & Behavioral AI-based Security.

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OPENING MINDS

Making the case

For many organizations, the days of employees working in the office on corporate devices, sat behind firewalls with centralized security tools, are long gone. Users are now more mobile than ever, with many choosing to work from home, coffee shops, and other non-corporate locations, often on personal devices, where traditional cyber defenses are ineffective. This leaves IT with the challenge of securing a large, ever-changing network edge.

The problem is further exacerbated as the volume and sophistication of cyber attacks have increased dramatically in the last two years and looks set to rise further, with the cost of cybercrime expected to top $10.5 trillion annually by 2025[1].

This is not surprising given the success of cyber attacks. According to the *CyberEdge Group 2021 Cyberthreat Defense Report*, 82.6% of organizations were affected by a successful cyber attack in 2021, the highest level of compromise ever seen.

Two of the main ways end users are targeted are:

1. Through the injection of malicious files onto an end user's device, typically via a file download from an email or the web

2. Through socially-engineered emails, tricking users into clicking on attachments and links, sharing personal information or credentials, redirecting financial payments or making a payment to a fraudulent organization

In simple terms, the number and sophistication of modern attacks coupled with the challenge of protecting a distributed user community have left traditional security solutions unable to provide adequate protection for users, leaving corporate data and reputations exposed.

[1] According to the "CyberEdge Group 2021 Cyberthreat Defense Report."

Our approach

For several years the approach has been to augment traditional Anti-Virus (AV) tools with EndPoint Detection and Response (EDR) tools and services. These solutions do provide a level of protection, but were never designed to cope with the volume and complexity of attacks seen today. Furthermore, if the AV misses the threat, it is often too late by the time an EDR solution has detected a problem to prevent a breach.

Teneo believes you need a modern approach to protect your business from today's threat landscape. Our approach focuses on delivering technologies that follow the mantra that prevention is better than cure.

To address these challenges, Teneo has added Deep Instinct and Abnormal Security to its portfolio, under the umbrella of its Deep Learning & Behavioral AI-based Security solution.

This solution forms part of StreamlineX, our innovative framework which enables IT teams to provide secure, optimized and observable connections between users and applications.

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Prevention for Endpoint

Firstly, to ensure that end users' computers, laptops, and mobile devices are protected, Teneo has partnered with Deep Instinct, which takes a prevention-first approach to stop ransomware, unknown and zero-day attacks. Deep Instinct's 'D-Brain' agent is the result of years of developing and training in the world's only deep learning cyber security solution that detects and prevents malicious files in under 20 milliseconds.

Key benefits

World's only Deep Learning Cybersecurity Solution

Prevents >99% of known, unknown and zero-day threats in <20 milliseconds

Only requires 1 or 2 updates per year

Same level of protection on or offline as no cloud look up required

Additional features

- Professional UI and dashboard

- Built-in reporting

- Automated and ad-hoc threat and trend reporting

- Full audit logging/recording of all admin actions, role-based access control, 2FA, and SAML integration

- True multi-tenancy

- Group-based policy

- Configuration of security policies based on a variety of manual or automated criteria, including naming convention, IP, AD, OU, and more.

Deep Instinct provides protection for: Windows, Linux, MacOs, iOS, Android, Chrome OS, Amazon Workspaces, VMWare ESX and Horizon, and Microsoft Hyper-V.

Find out more about Deep Instinct

Λbnormal

AI-based Cloud Email Security

To address the risks of socially-engineered emails, Teneo has also partnered with Abnormal Security, the leading behavioral AI-based security platform that protects against the full spectrum of inbound email and email platform attacks. The solution provides a fundamentally different approach to email security by building a picture of what 'normal' email behavior looks like based on email usage within an organization and in other Abnormal deployments.

When a new email is received, Abnormal uses its advanced behavioral analytics engine to assess if it is 'normal' behavior between the sender and the recipient. This enables it to catch malicious emails that traditional email gateway services miss, especially if they don't contain attachments or links to known bad websites.

Key benefits

Precisely blocks all email attacks using behavioural AI

Protects from internal and external compromised accounts

Deploys in minutes via API; no configuration needed

Improves user productivity

Protection against

Supply Chain Compromise

- Automatically knows your vendors

- Continuously assesses vendor risk and reputation

- Inspects content, tone, and attachments

Executive Impersonation

- Inspects email headers to expose impersonations

- Detects suspicious language, tone, and style

- Understands communication patterns

Account Takeover

- Detects compromised accounts

- Disarms takeovers automatically

- Provides incident management and reporting

Ransomware

- Detects suspicious correspondence patterns and credential phishing attempts

- Blocks malicious attachments and links

- Provides explainable insights and malware forensics to security teams

Find out more about Abnormal Security

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StreamlineX

Teneo's Deep Learning & Behavioral AI-based Security is part of StreamlineX, our innovative framework combining market-leading technologies that empowers network and security teams to embrace digital innovation and navigate the challenges of modern connectivity.

The service forms part of the process to develop a multi layered approach to security using the StreamlineX framework, and adopting the principals of Zero Trust

Find out more about StreamlineX

Purpose Beyond Profit

In working with Teneo, you will help to improve the lives of a million children around the world.
Learn more

About Teneo

Most Network and Security teams are overworked so making progress is a challenge. We securely connect users to their applications by combining leading technology with expert guidance. You stay in control, simplify your operations and keep ahead of the game.

Find out more at www.teneo.net

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