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Central Networks & Technologies Ltd - Darktrace Cyber Security

Crown Commercial Service

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Central Networks and Technologies Ltd (Central) was founded in September 1991 by Christopher Mycock. In the earlier years Central was responsible for running the core ICT systems for many of the UK Magistrates Courts Services, which involved moving and hosting the mainframes and employing staff via TUPE. We also have a focus in the Housing Association and not-for-profit sector. In the last 10 years we have migrated many of our customers to cloud or partial cloud provision.

Our customer base is diverse in terms of size, geography, skills, business requirements and objectives. We have recognised this and created a solutions and services portfolio that can be tailored to meet the individual requirements of all our customers. Some of our customers have large ICT teams and only look for assistance where they have investigated and exhausted every avenue. Others are far smaller, where finance officers often take on ICT responsibility and need additional help and assistance. Central provides a bespoke service to each of our customers, providing best value for money and an ICT service which matches their requirements which assists them in delivering their objectives.

Central Networks Darktrace Cyber Security

Introduction

Founded in 2013 by world-leading mathematicians and government cyber intelligence experts from the US and the UK, Darktrace was the first to apply unsupervised machine learning to the challenge of cyber security –pioneering developments such as Autonomous Response technology and Cyber AI Analyst. Darktrace has experienced meteoric growth over the past seven years and is today recognized as the world's leading AI company for cyber security.

Headquartered in Cambridge, UK, Darktrace has over 1,500 employees worldwide. Under the leadership of Poppy Gustafsson, OBE, the company's proprietary AI research has been recognized by independent bodies including Forrester, IDC, Gartner, and The Royal Academy of Engineering for its ground-breaking developments in the field of cyber security - winning over 100 awards as testament to its capabilities. Such innovation has been supported by our world-class advisory council, which comprises of experts in mathematics, computer science, security, and intelligence gathering, including:

- Lord Jonathan Evans KCB, the former Director General of MI5
- Alan Wade, the former CIO of the CIA
- Professor Nick Jennings, Chair in Artificial Intelligence at Imperial College, London
- Sir Peter Bonfield CBE, Fellow of The Royal Academy of Engineering Central Networks G-Cloud Service Definition - Consultancy

Darktrace is relied on by over 4,700 customers globally, protecting and defending some of the most sensitive IP, digital data, and mission-critical infrastructure in the world. Our self-learning technology:

- Safeguards the IP behind the world's fastest SSD
- Shielded the CFO of a large financial services provider from a personalized phishing attack
- Defended the UK healthcare system from the WannaCry ransomware attack
- Safeguards the leading provider of cloud-based travel services across 230 territories
- Protects one of the world's first 5G smart cities
- Defended a Formula One team from a credential-grabbing email attack targeting their C-suite
- Monitors supply chain risk from world-leading ICT communications and smart device companies
- Detected nation-state attackers exploiting a zero-day vulnerability across several customers
- Defeated a world-leading red team on day 0 of their operation • Stopped 'fearware' email attacks leveraging global uncertainty to infiltrate multiple organizations
- Was recognized by Marsh as a 'Cyber Catalyst', deemed effective at reducing cyber risk

Darktrace Immune System Platform

The Darktrace Immune System is a self-learning technology. Analogous to the human immune system, the AI identifies unpredictable threats inside your digital business and contains them in real time. Uniquely capable of uncovering rare and previously unidentifiable patterns in information, Darktrace learns what normal behaviour looks like across your digital ecosystem to autonomously detect threats amid the noise of everyday activity.

Our Cyber AI then takes the right action at the right time to contain attacks in seconds – a unique Autonomous Response capability hailed by Prof Nick Jennings, Chair in Artificial Intelligence at Imperial College London, as a "significant engineering innovation … essential for dealing with the volume, novelty, and speed of modern cyber incidents."

The core of Darktrace's Immune System platform consists of three tightly integrated autonomous AI systems: the Enterprise Immune System, threat detection, Darktrace Antigena, Autonomous Response, and Cyber AI Analyst, incident investigation and reporting. Darktrace's Cyber AI is operative across the entire dynamic workforce, including cloud and collaboration tools, email, IoT, endpoint devices, industrial control systems, and traditional networks. This breadth of coverage enables organizations to rely on Darktrace's AI to defend against all threat types no matter where or when they emerge. Continuously learning 'on the job', Darktrace's Cyber AI is able to evolve alongside your business – facilitating digital transformation in a secure manner and protecting your employees even through times of change. With seamless integrations, Darktrace can help you enhance your existing investments for a comprehensive security strategy that covers your entire digital ecosystem.

Enterprise Immune System

Darktrace's flagship product, the Enterprise Immune System, detects all threat types before they become destructive or damaging, including novel attacks and insider threats. The AI learns and understands a sense of 'self' for every user and device in the business, providing organizations with complete visibility of their dynamic workforce. This enterprise-wide approach enables Darktrace to spot the subtle signals of threat within seconds of it emerging and leaves attackers no-where to hide. Powered by unsupervised machine learning, the Enterprise Immune System does not rely on training

data, pre-conceived ideas of 'bad', or fine-tuning to teach the AI what to look for. Instead, Darktrace's technology learns 'on the job', developing a rich understanding of the digital DNA of your business. This means that Cyber AI identifies threats that are missed by static solutions, evolves as your organization does, and never goes out of date.

Key benefits

- Learns 'on the job' and adapts continually
- Detects novel threats and insiders
- Complete visibility across the digital business
- AI-native Fast install – no manual configuration
- One-click integrations

Darktrace Antigena

Darktrace Antigena is the world's first and only Autonomous Response technology. This multiaward-winning solution takes action on behalf of security teams to contain cyber-threats within seconds, wherever they occur, and before they can escalate to a crisis. Like a digital antibody, Darktrace Antigena neutralizes threats in a highly targeted and precise way, allowing normal day-to-day activity to continue uninterrupted.

For example, if your organization was hit by a ransomware attack, Darktrace Antigena would understand exactly where the threat had first struck and surgically drop malicious connections that the malware was attempting to make. Critically, employees need not experience any disruption to their work, as only the out-of-character behaviours are stopped. All this happens in seconds, buying security teams time to catch up.

Autonomous Response technology is a vital part of the security stack, taking surgical action against zero-day attacks, compromised cloud credentials, advanced spoofing campaigns, and more. In the face of malicious activity, Antigena can either take self-directed steps or hand off incident insights to existing third-party security systems as a mechanism for response. While human security teams are away from their desks or simply unable to respond to a threat fast enough, Darktrace Antigena calculates the best action to take in the shortest period of time to effectively react to a cyberattack – whenever it strikes.

Every 3 seconds, Antigena responds to a cyber-threat somewhere in the world.

Key benefits

- Reacts in seconds to stop unpredictable and fast-moving attacks
- Surgical response with no disruption to your business
- Customizable – you choose how and where Antigena acts
- Full oversight with the Darktrace Mobile App

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