DARKTRACE ACTIVEAI SECURITY PLATFORM

# Moving Beyond Simple XDR to a Proactive Approach that Achieves True Cyber Resilience

## The Reality of Cybersecurity Solutions

The advent of AI in offensive tools and rise of cyber-crime-as-a-service have drastically increased the speed, sophistication, and success of cyber security attacks. Multi-domain and multi-stage attacks now dominate the adversarial approach, delivering new threat variants at machine speed against an enterprise's infrastructure, applications, and people, until they successfully exploit a weak point.

When it comes to defense, traditional, reactive cyber security solutions cannot keep up.

- Nearly all rely on existing threat data for detection, only stopping what is known, chasing the latest update, and creating a sea of alerts inducing alert fatigue.
- Point solutions provide depth of visibility but are not able to draw context across multiple IT domains.
- Recent approaches like eXtended Detection and Response (XDR) stitch together suspicious events across the enterprise, but still depend on human validation, remain reactive and have inadequate domain coverage like in email, where 22% of attacks start.[2]

Security teams are at a breaking point, with too many alerts, too little time, and fragmented support from a bloated vendor stack. They need a consolidated security approach that combines AI, data-driven context, and the ability to close gaps in visibility over policy and process to improve mean times to identify and contain by 92.3%.[3]

## Business Benefits

**Comprehensive protection from a complete security platform**
Minimize potential risks and damages across your entire digital presence with threat detection, response, and recovery for network, OT, cloud, email, applications, and your identities

**A unique approach to XDR, providing security Tailored to YOU**
AI that understands your unique business, assets, and security needs using business-centric context to improve unknown threat detection, and drastically simplify and speed up triage, investigation, and response of all attacks, even those from third-parties alerts

**Preventive cyber resilience hardens your environment before an attack**
Proactive tools identify exposed assets, attack paths, and vulnerabilities that let teams stop threats before they occur

**Bridge skills gaps to get the most out of your team**
Intuitive design that guides you effortlessly through simplified threat narratives and network, system, and security concepts.

**Enhance your SOC to save time and effort**
AI-assisted alert triage, response, and recovery save at least **180hrs a month** and free your team from fatigue, giving them more time to work on critical projects

**Gain cost savings of up to 40% with an AI-led platform approach[1]**
Simple buyer journey, security stack consolidation, and reduced damages with autonomous interventions lower expenses

**Unified reporting eases communication to key stakeholders**
Automatic and flexible reports for readiness, compliance, and live security concerns

[1] Darktrace Customer Insights
[2] M-Trends 2023 Mandiant Special Report
[3] Darktrace Customer Insights

DARKTRACE

# Darktrace ActiveAI Security Platform

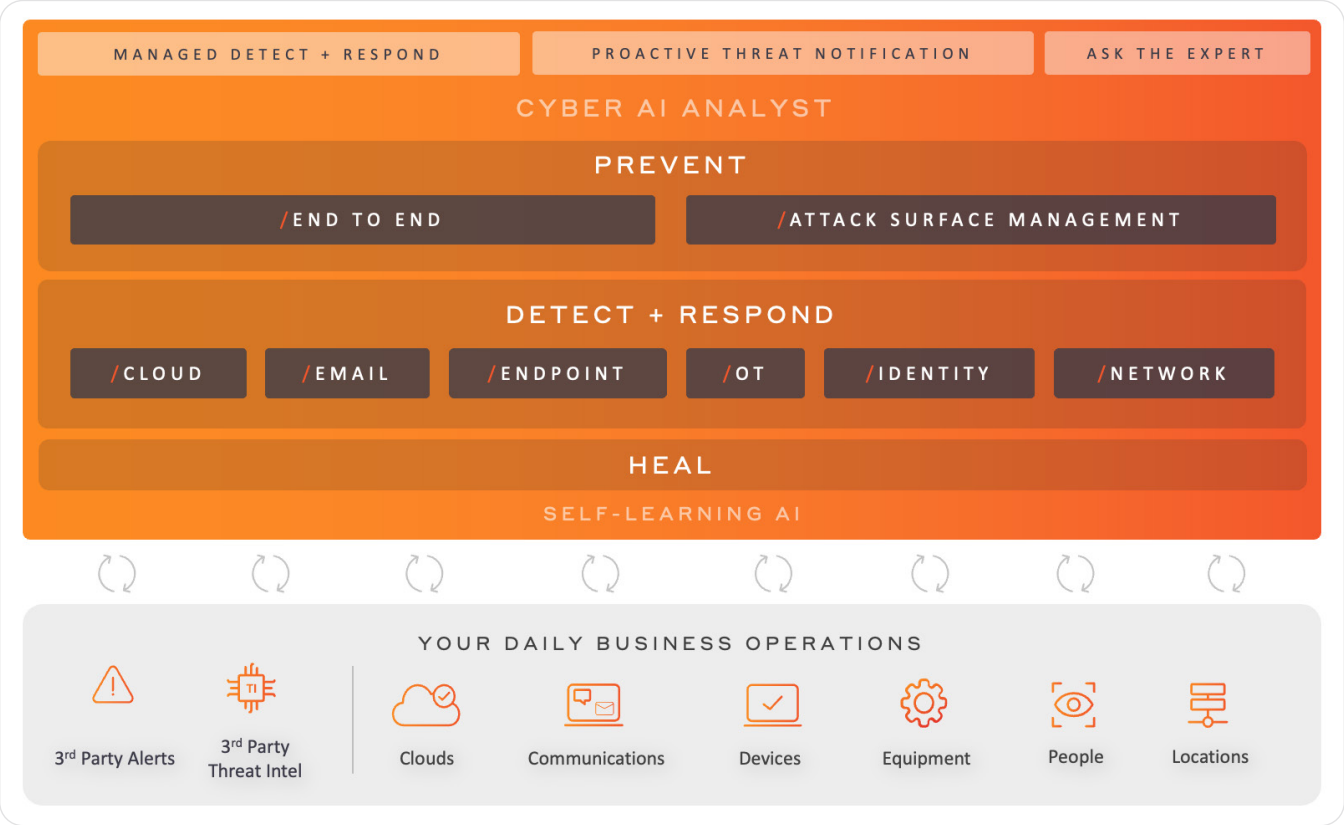
## A New Path Forward with Self-Learning AI

**The Darktrace ActiveAI Security Platform is designed for your security operations center to eliminate alert triage, perform investigations, and rapidly detect and respond to known and unknown threats, whilst exposing risk gaps across your technologies and processes so your users can shift to a proactive cyber approach.**

Built on Self-Learning AI that continuously trains from your ever-changing business data wherever it is deployed, with further enrichment from external threat intelligence and third-party alerting. This learning is not limited by yesterday's threat data but looks at deviations of your unique business operations, revealing even the subtlest indicators of malicious intent that may pose a threat to your business, known, unknown, and never before seen.

Security operations process is transformed by our trusted Cyber AI Analyst, the investigative AI which continuously performs full investigations of relevant Darktrace and third-party alerts. The result shifts the existing process of triage few alerts from the thousands per day, to triaging all relevant alerts, eliminating the manual process and automatically prioritizing attacks, leveling up your team to review investigative results and perform deep secondary analysis if needed, or spend time closing security gaps. Threats are contained in real-time by Darktrace ActiveAI Security's autonomous response, paired with bespoke incident response playbooks to support the recovery process during your most critical incidents.

In addition to handling incidents as they arise, the platform delivers insights for the proactive identification of exposed assets, vulnerabilities, and attack paths so that potential risks can be addressed before an attack occurs. This improves the entire security posture- including training people via attack and phishing simulations to ensure human readiness.




BYTES

# Key Capabilities

## Unprecedented Visibility Across the Enterprise with a Self-Learning AI

Traditional cybersecurity vendors have set focus areas within an IT domain, where they can use their expertise of known attack data to determine what is a threat and whether it should be prioritized. Even for those using machine learning-led behavioral detections, they rely on training supervised machine learning models on historical attack data based on what they have seen before, not whether the activity is unusual for the enterprise. In this way, they focus on the breach rather than the business and have little enrichment beyond their specialty coverage area.

Darktrace lets security operations teams experience a new approach to visibility that keeps machine pace with the threat landscape, surfacing what is most important to your business.

**Values demonstrated through:**

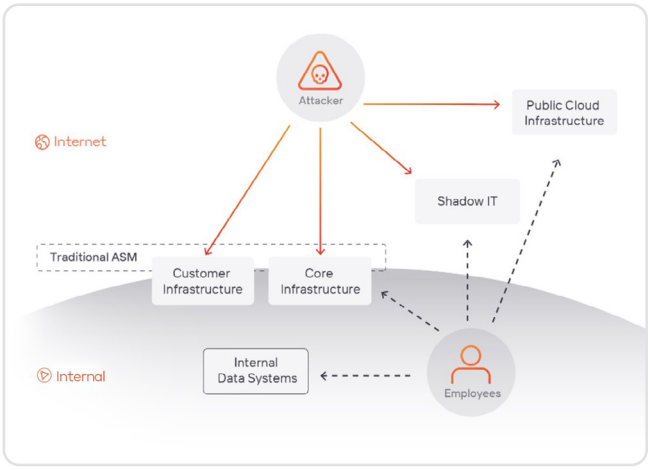
- Apply AI algorithms and compute power across network, OT, cloud, email, applications, and your identities to develop a sophisticated understanding of your unique business data that saves time on integrations and vendor management.
- Continuous real-time learning that changes its alerting criteria as your business grows and adapts to reduce necessary detection engineering.
- Unlike some XDR solutions, we safeguard your data privacy by keeping the learning of your business separate from the learning of other enterprises. Darktrace's models are distinct to you.
- Chain anomalies together to reduce the time between detection and understanding.

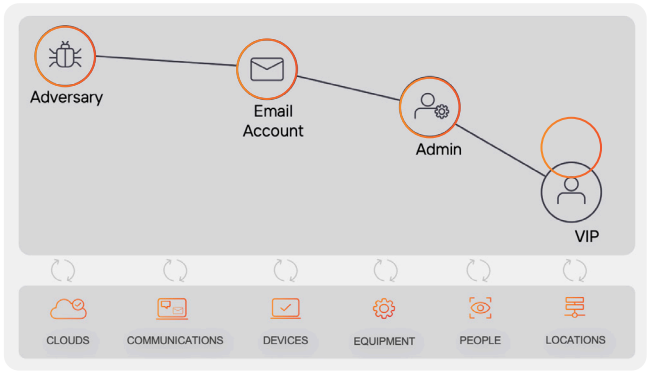
## Gain Insights to Achieve a Proactive Cyber Defense

Use Darktrace PREVENT/Attack Surface Management to surface hidden assets and prevent security control failures. Receive protection against shadow IT, brand abuse, cyber-squatting, and the latest vulnerabilities relevant to you with Darktrace's industry leading Newsroom.

With Darktrace PREVENT/End-to-End analysis, apply context and prioritization to possible risks and attack paths across each of your coverage areas, based on a joint understanding of probability, patch latency, interactivity of involved assets, position in business or security hierarchy, and the difficulty of likely attack methods. Users can take this context and then review individual devices for vulnerabilities to prevent attack paths from being exploited.

Understand exactly what you need to mitigate with confidence and harden user susceptibility through defensive attack engagements across email, Microsoft Teams, and mitigation advisories.



DARKTRACE

# Detect and Respond to Enterprise Threats

Our AI's visibility allows it to identify subtle behavioral anomalies that indicate a cyber-attack. Once these are detected, the AI can respond and neutralize the malicious activity. Since it understands your business, it allows normal, safe operations to continue, therefore maintaining security while minimizing business disruption.

### Network

Complete network detection from obfuscated downloads, C2, and encryption activity to privilege escalation, data gathering, and exfiltration. Take targeted actions including blocking matching network connections over exploited protocols and ports or enforce a workstation to halt unexpected activities.

### Industrial (OT)

Understand anomalous behaviors occurring across over 50 diverse industrial protocols, including Modbus, S7, CIP and BACnet. Uniquely highlight threats where IT and OT converge, including unwanted communication or malicious peripherals.

### Email

Expose sophisticated spear-phishing, impersonation, supply chain attacks, and business email compromise, all mapped to subsequent application behaviors. Strip links, convert attachments, and hold emails entirely depending on the extent and nature of the threat. Even strengthen security around your users, boosting data loss prevention with AI that recognizes misdirected emails and improving efficiency with upcoming enhancements to user-reported phishing workflows.

### Cloud

Provide total cloud protection surfacing real-time threats and misconfigurations based on true cloud risk across your workloads, containers, and Kubernetes. Darktrace takes selective actions that account for careful cloud planning such as 'detaching user profiles' for those abusing their permissions.

### Identities

Gain advanced visibility of application user behavior from unusual authentication, password sprays, account takeover, resource theft, and admin abuse. Take targeted actions including the forced 'log-off' of a user or temporary disable an account to give the team time to verify legitimacy.

Autonomous responses contain threats before they escalate, easing the burden on the security team so it can focus on more than firefighting. Since the AI understands your business behaviors, it can take targeted actions that stop attacks while still allowing regular operations, therefore minimizing business disruption. All actions can be set to active or human confirmation modes, based on your needs in different times of the day, out of hours, or against certain threats.

## Operational Benefits

**A security stack that stacks**
Ingest and correlate platform-native data with telemetry from your existing third-party tools to maximize ROI and see your complete security profile within one UI, spanning from proactive prevention to reactive response

**Accelerate response time to stop attacks in their tracks**
Autonomously identify and contain known, unknown, and never seen threats, before they escalate with targeted actions for every incident

**Preventative cyber resilience helps you close gaps before they are exploited**
Proactive tools allow you to harden your security stack, reduce real alerts, and predict the next likely stages of an attack

**Automated investigation and recovery for 24/7 coverage**
Free your security team from the pressure of triage and recovery playbook planning

**Follow your own path and deploy at your own pace**
Add capabilities at-will to address your scaling security needs

BYTES

## Darktrace Investigative Cyber AI Analyst

Our investigative AI, Cyber AI Analyst, goes beyond a typical XDR. Using these products, the existing triage process becomes overwhelming, with both a data and human overload. Under time sensitive conditions, analysts must use multiple capabilities to filter through countless alerts, identify meaning, extract implications, and sort out false positives.

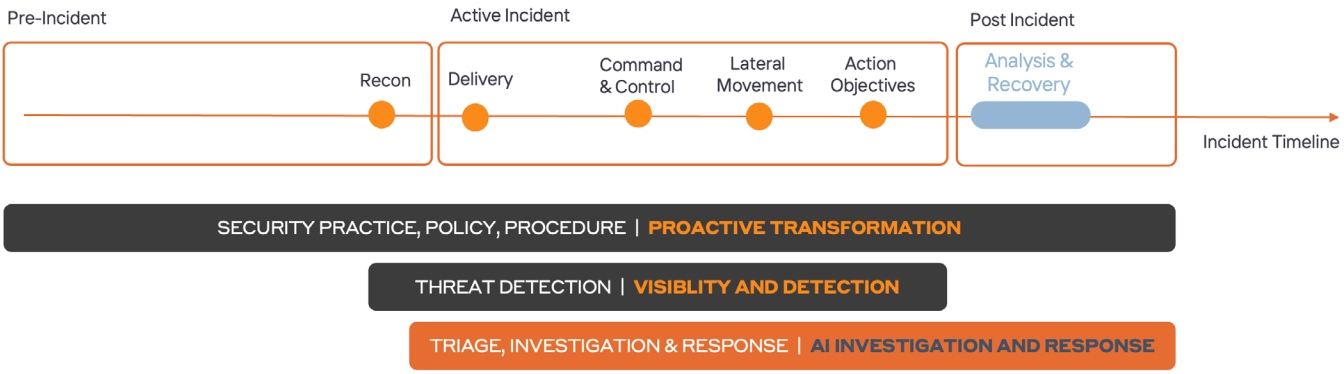
Cyber AI Analyst takes that pressure away. It automatically investigates every relevant event, reducing thousands of individual alerts into only a few incidents that require review. From here, analysts have everything they need to decide next steps, validate containment actions, or see the steps they need to take to recover.
This redefined process is more thorough, reducing the human incident handling process to minutes while behavioral containment stops the threat within seconds, giving your team more time to spend on their proactive security posture.

Investigation results are mapped to an incident timeline and come with a complete narrative containing the threat details and recommendations for mitigation or recovery. Organizations can tailor how an investigation is performed to ensure consistency and alignment with their own internal policies and workflow.

## AI-assisted Readiness and Recovery

Darktrace/HEAL boosts your incident readiness across each element of security operations: your people, processes, and technologies.

Give your security team confidence with incident simulations, allowing SOC teams to overcome human stress responses by practicing with realistic attack drills in their own environments. Understand where your security and IT technologies can improve their potential with simple readiness reporting that audits your stack, integrations, and what could pose a risk during the real incident response process. Speed up critical decision-making time with AI-generated playbooks that give SOC teams the optimal steps to recovery based on active investigations in your environment.



# Scale and Succeed with Darktrace ActiveAI Security Services

Darktrace offers a range of services to ensure your team is supported with additional expertise and scalability.

Darktrace's Proactive Threat Notification (PTN) will augment your team's investigation efforts by letting our own SOC triage the highest priority alerts in your environment and jumpstart the threat response. In a time where analysts are overburdened by responsibilities, we bring additional support and experience when you most need it.

Darktrace's Ask the Expert (ATE) grants your team access to world-class cyber security analysts for guidance through any emerging problem- from incident explanations during live threat investigations to questions around Darktrace technologies.

Darktrace's Managed Detection and Response (MDR) service brings the maximum level of support, with our experts' facilitating SOC triage and a level of threat containment response, regular reviews of operational efficiency, communication about Darktrace's latest threat research findings, and unlimited collaboration. Together, these provide focus areas to build up customer's overall resilience.

## Deployment

**Delivery Model**

- On-Prem, Private Cloud, Hybrid.
- Additional options for specific platform areas:
  - Darktrace/Network and Darktrace/OT can be deployed:
    - On-Prem
    - Private Cloud
    - Hybrid
  - Darktrace/Cloud deployed Agentless, Agented, or Hybrid
  - Darktrace/Email deployed with API or Journaling and API

## Adoption

At its core, the Darktrace ActiveAI Security has four core coverage areas, with additional coverage, services, and capabilities offered to expand your protection depending on your organization's security needs.

**Darktrace/Network** – Network Detection and Response
**Darktrace/OT** – Operational Technology Security
**Darktrace/Email** – Cloud Email Security
**Darktrace/Cloud** – Cloud Native Application Protection

Through Darktrace's accessible proof of value trials, businesses can experience any Darktrace product in their own environments and participate in detailed workshop sessions with our specialists.

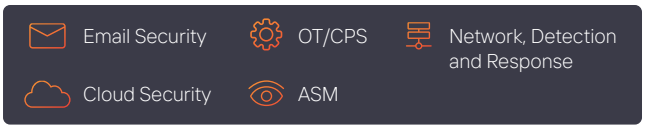
## New Customers

Darktrace offers multiple entry points to the Darktrace AI Security Platform starting with our core coverage areas / Network, /OT, /Email, and /Cloud .

From here, expand your protection by adding to your coverage with additional domains, services, and PREVENT or HEAL capabilities.

## Existing Customers

To experience the capabilities of Darktrace ActiveAI Security, Darktrace recommends at least the following products, / Network or /Cloud DETECT and RESPOND, Cyber AI Analyst, PREVENT, and HEAL.




## About Darktrace

Darktrace (DARK.L), a global leader in cyber security artificial intelligence, delivers complete AI-powered solutions in its mission to free the world of cyber disruption. Its technology continuously learns and updates its knowledge of 'you' for an organization and applies that understanding to achieve an optimal state of cyber security. Breakthrough innovations from its R&D Centers have resulted more than 165 patent applications filed. Darktrace employs 2,300+ people around the world and protects over 9,200 organizations globally from advanced cyber-threats.

DARKTRACE
Evolving threats call for evolved thinking™

Speak to your Bytes Account Manager or email tellmemore@bytes.co.uk to find out more.

BYTES