GUIDANCE is now is now

Encase Endpoint Security Detect Threats & Secure Your Data





Often the custodians of sensitive and regulated data, the domain of content and data owners is increasingly falling under the purview of regulations mandating security and incident response such as GDPR; digital investigations such as data breach notification laws; and electronic discovery for legal matters.





Agenda

- Who is Guidance Software
 - Business Overview
 - Solution Overview
 - Acquisition Rationale
- Today's Data Security and Privacy Challenges
- EnCase Endpoint Investigator and EnCase Endpoint Security
- The Future of Information Security @ OpenText

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Anthony Di Bello

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GUIDANCE **opentext**^m

About OpenText EnCase







Proven in the courtroom and trusted in the boardroom, we solve highly sensitive data risk management problems for the largest organizations in the world





About OpenText EnCase

Trusted by the largest global enterprises



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78 of the Fortune 100

#1 solution for **Government agencies**

48% of the Fortune 500

#1 tool for the incident response service providers; FireEye, KPMG, PWC, Deloitte, CSC, AT&T

More than 5,000 EnCE **Certified Investigators**

38M Agents Deployed ...and counting







Forensic security



EnCase Endpoint Security

Detect anomalies, malware, IoCs; validate, triage and remediate

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EnCase Risk Manager

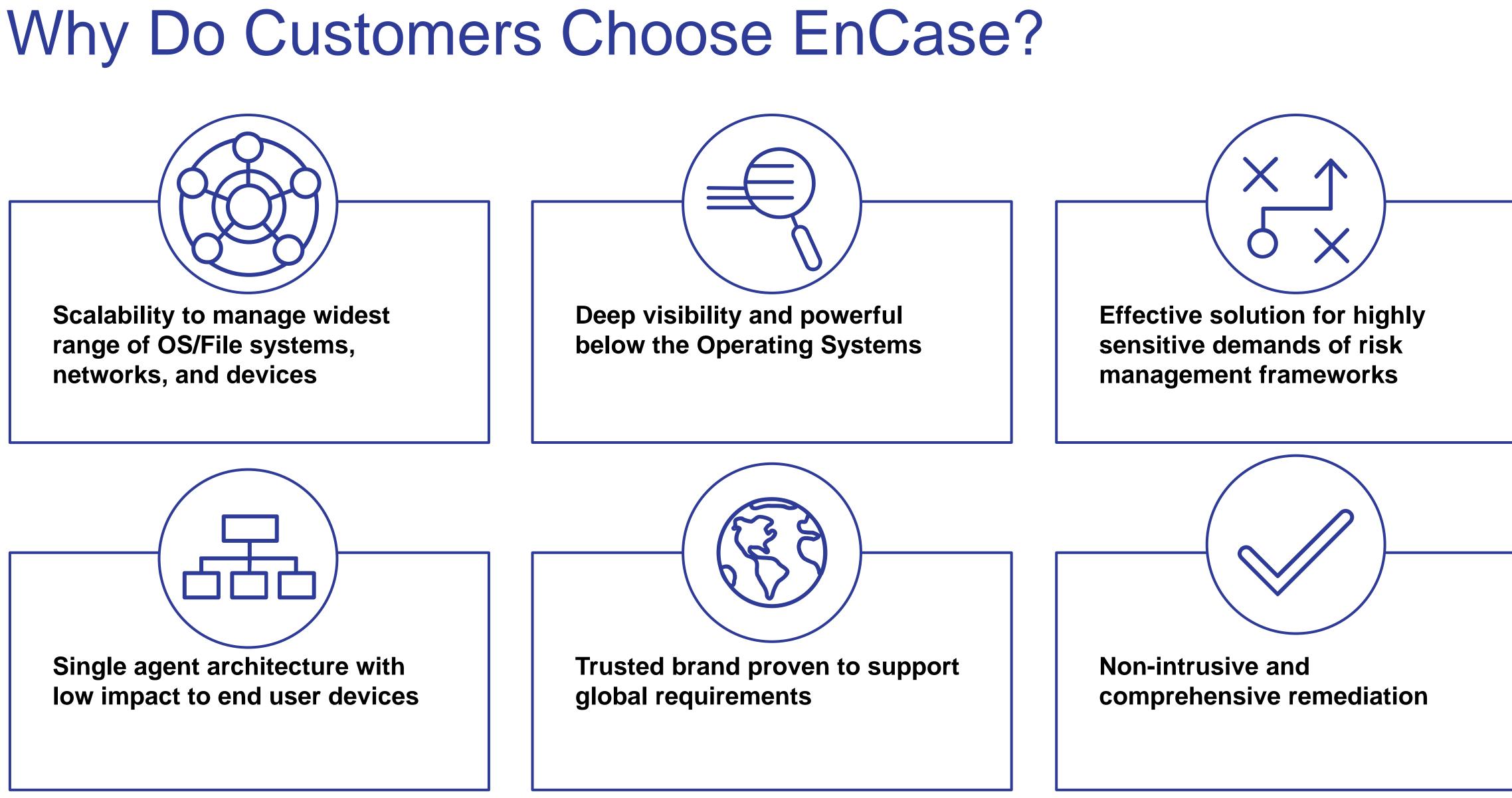
Map network surface area for privacy and compliance

Detects, Mitigates and Responds to Digital Risks and Threats of all Types...

EnCase Endpoint Investigator

Investigate analyze and produce evidence



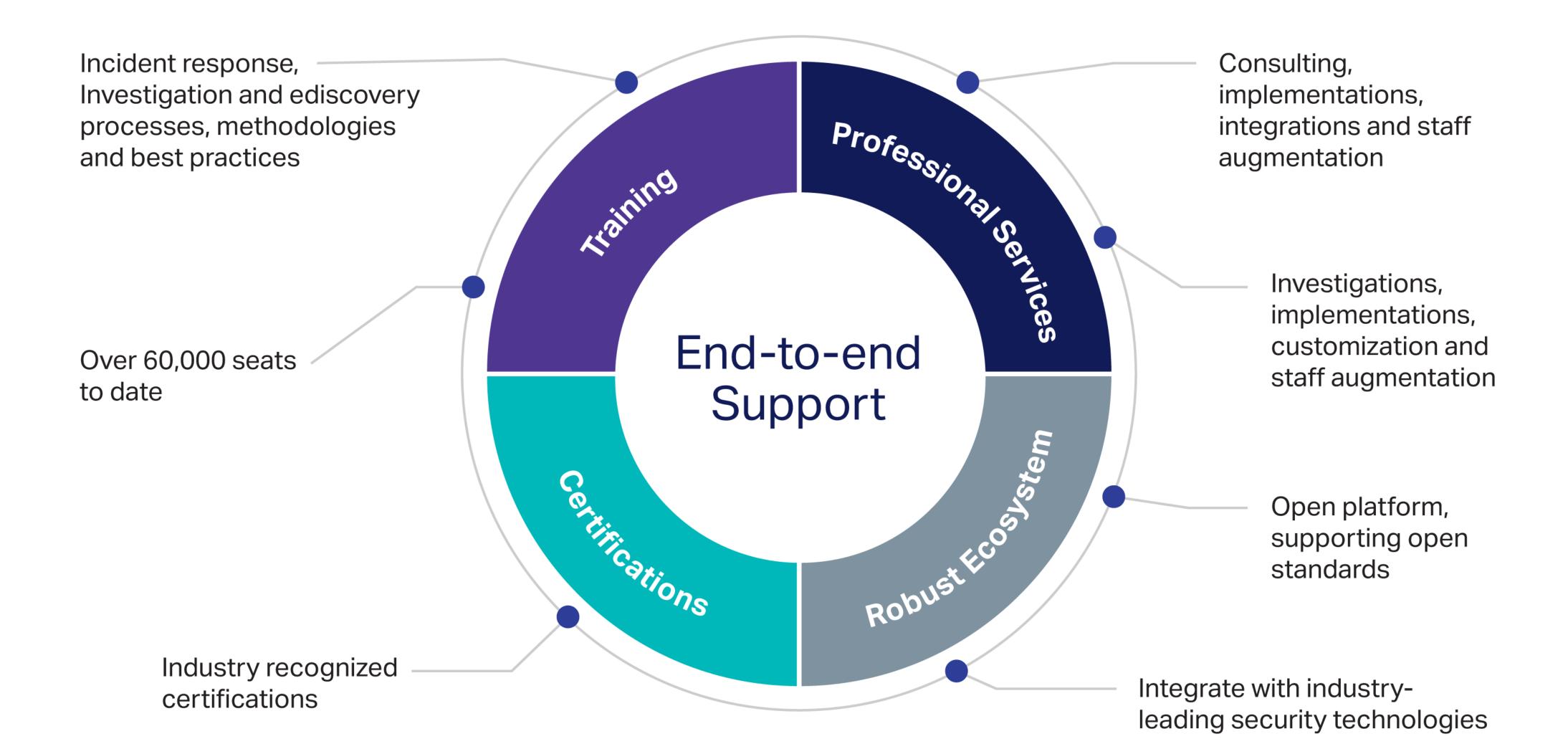






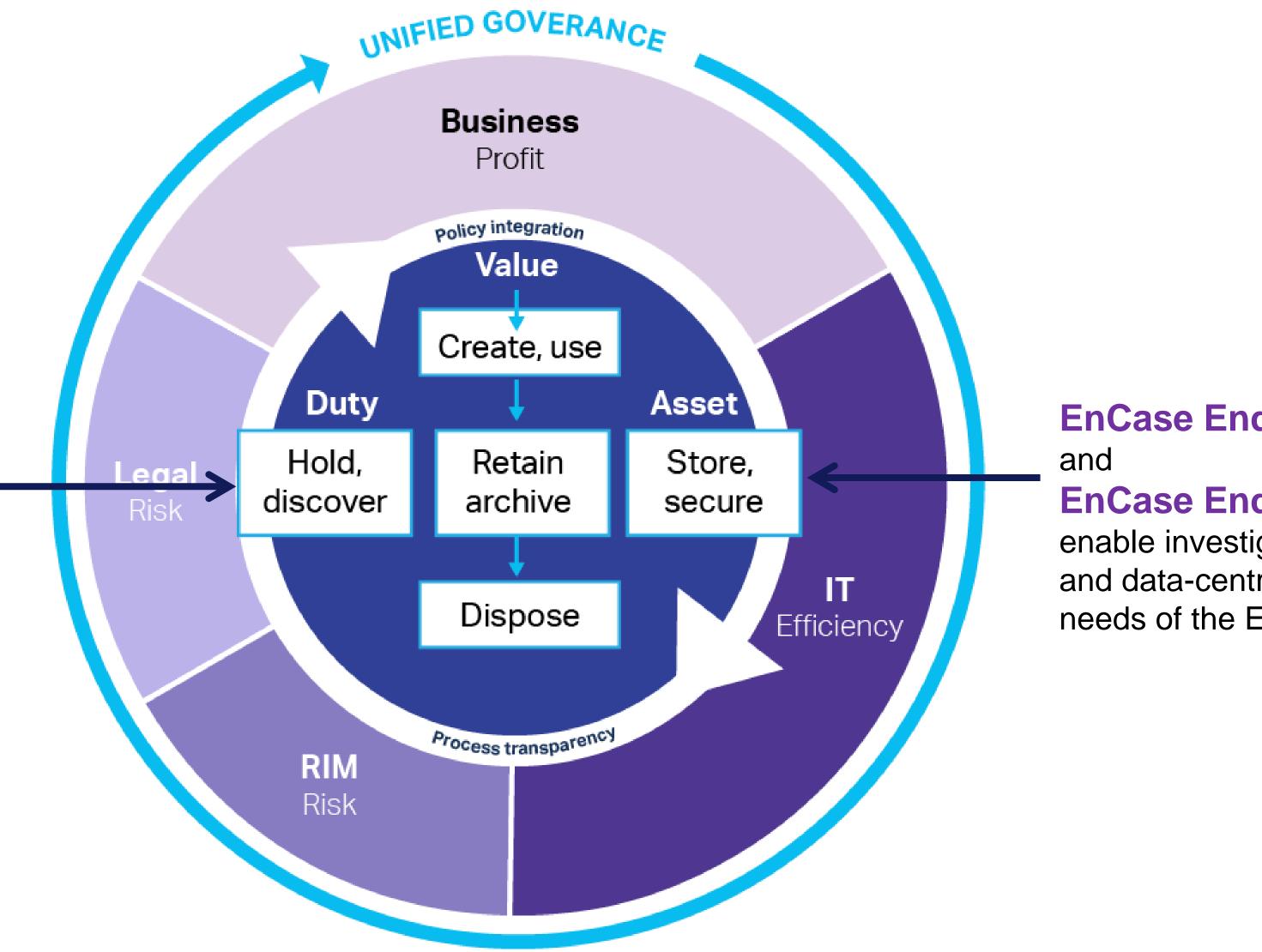


Intelligent services ensures success





Best-of-breed Enterprise Information Management



EnCase eDiscovery and **EnCase Risk Manager** fill

key in-house data discovery requirements

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EnCase Endpoint Investigator

EnCase Endpoint Security

enable investigative requirements and data-centric security for the needs of the EIM customer base

OpenText is Enterprise Information Management Guidance Software Joins a Strategic and Innovative Business Unit

opentext[™] | Security G



Insight

Provides a comprehensive digital forensic security solution to proactively audit your sensitive data, mitigate threats, and conduct digital investigations of security incidents

Acquisition closed in September 2017

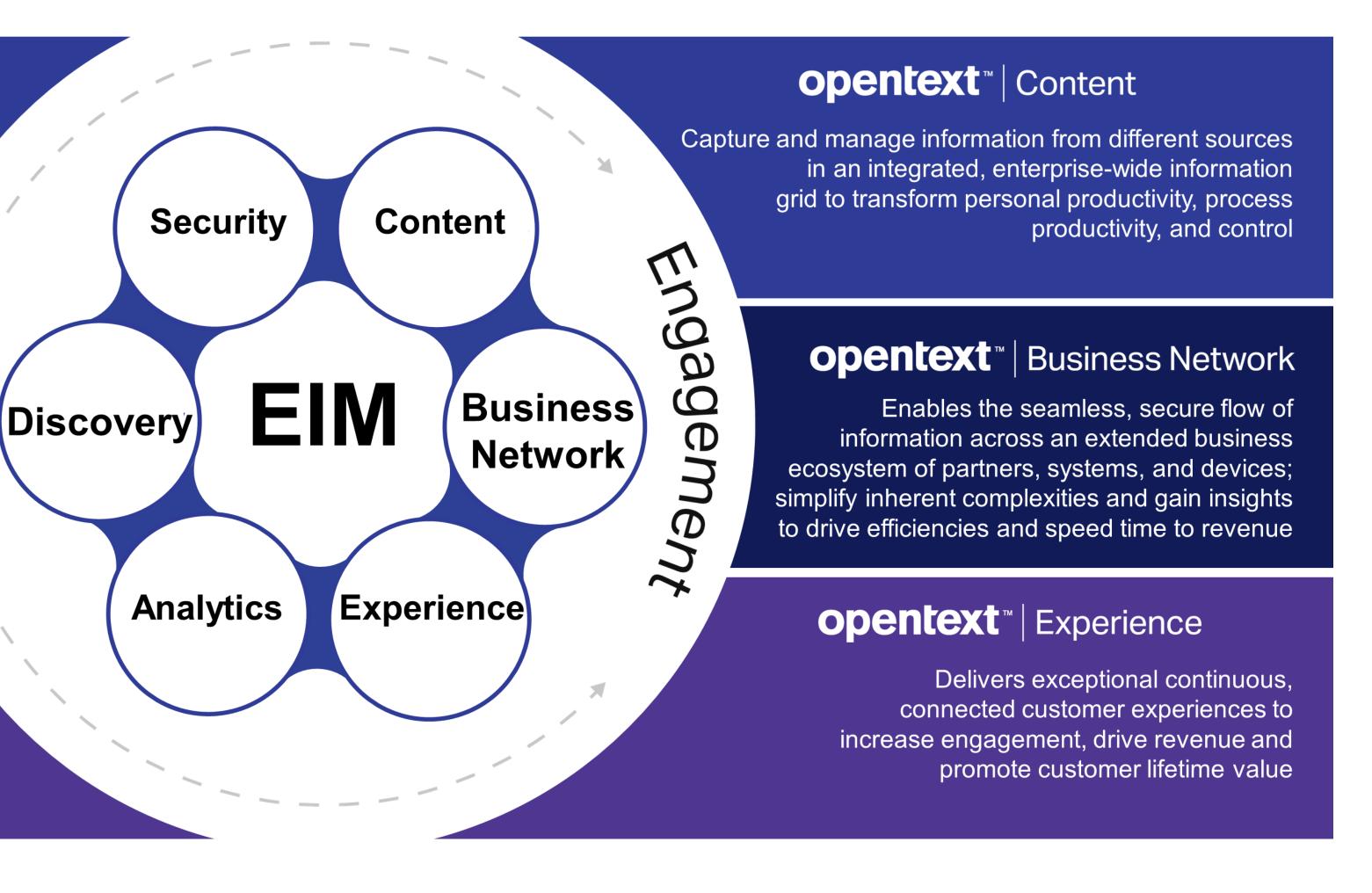
Address Business Risk Converging Forces

opentext[™] | Discovery

Enables discreet, forensically-sound access to key documents, contract terms, and critical early insights to manage risk and efficiently meet legal obligations

opentext[™] | Analytics

Provides enterprise-grade Business Intelligence to improve decision-making and operational efficiency; OpenText Magellan adds AI, machine learning, text analytics, and big data ingestion and processing capabilities



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Security & Privacy Challenges





Digital risk is a global problem

90% Attacks on organizations use unique malware (signatures/hashes)

\$3 Trillion

lost revenue opportunity

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30 Billion devices by 2020

\$.5 Trillion

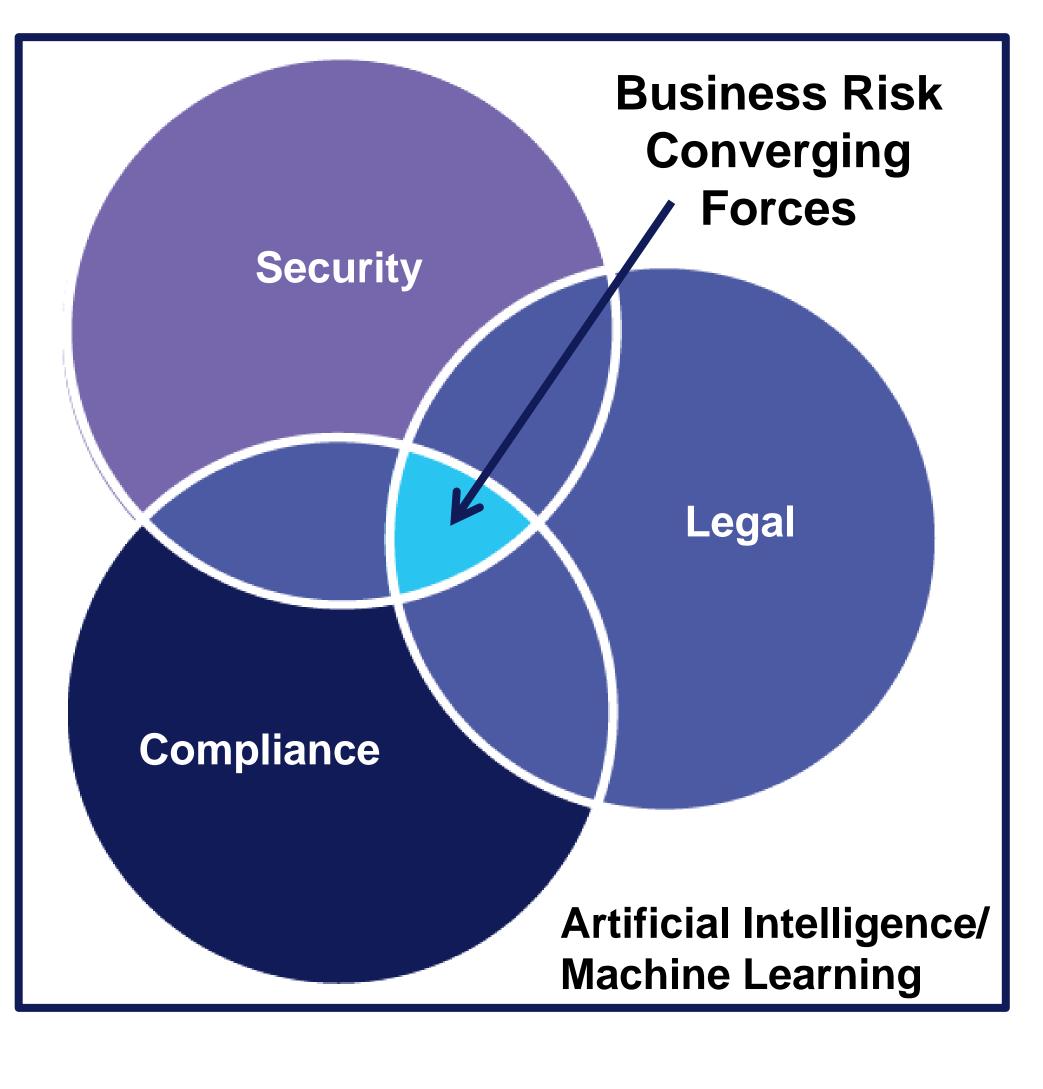
cyber crime related expenses

>90 Million breaches and attacks every year



Converging Market Forces Drive OpenText Strategy Organizations Facing A Perfect Storm

- Security Breaches and Data Protection
 - Prevent threats and minimize breach impact
 - Manage security risks in business terms
- Data Privacy, Regulations, and Policies
 - Growing industry regulations (GDPR, PCI DSS, HIPAA)
 - Internal policies (records retention, computer use, etc.)
- Investigations and eDiscovery
 - Internal HR, IP, and policy investigations
 - Case collection, assessment and litigation
- Artificial Intelligence/Machine Learning
 - Organizations seek solution for better insights and greater automation to efficiently manage business risks



Guidance Research Highlights Security Gaps

Our security team spends too much time responding to alerts to investigate possible incidents, many of which are false alarms

We regularly re-image infected endpoint devices creating work for our help desk and impeding end-user productivity

The lack of integration and automation between our endpoint security tools requires a significant level of manual processes

Endpoint security agents slow down endpoint devices impeding end-user productivity

Our antivirus software is unable to detect and prevent new and unknown threats

We lack the skills and resources to use advanced endpoint security controls which require time and expertise

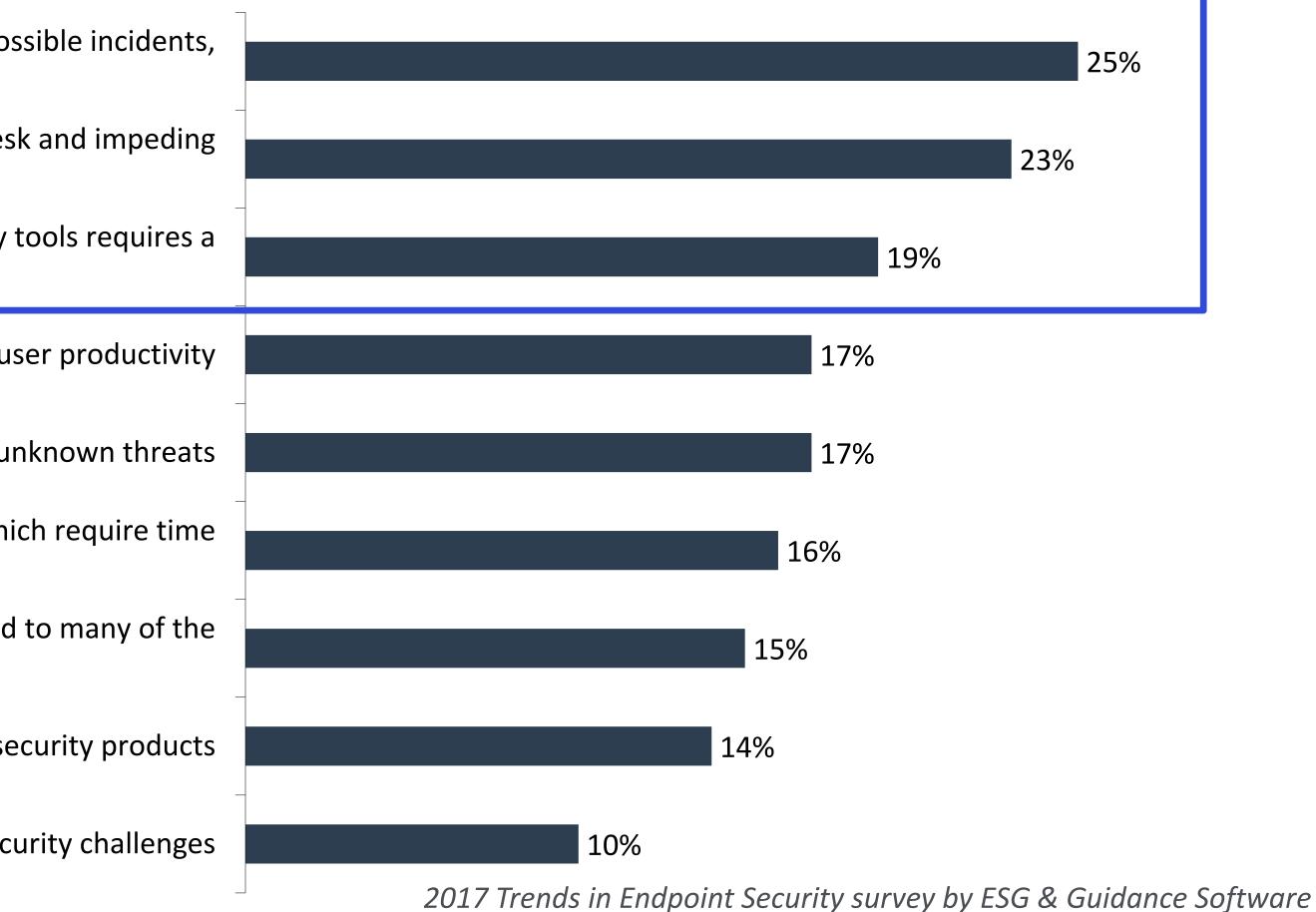
We lack the endpoint security tools required to quickly and efficiently respond to many of the security alerts generated from our endpoints

We lack budget to purchase the right endpoint security products

We don't have any endpoint security challenges

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In your opinion, which of the following presents the most significant endpoint security challenges to your organization? (Percent of respondents, N=385, two responses accepted)

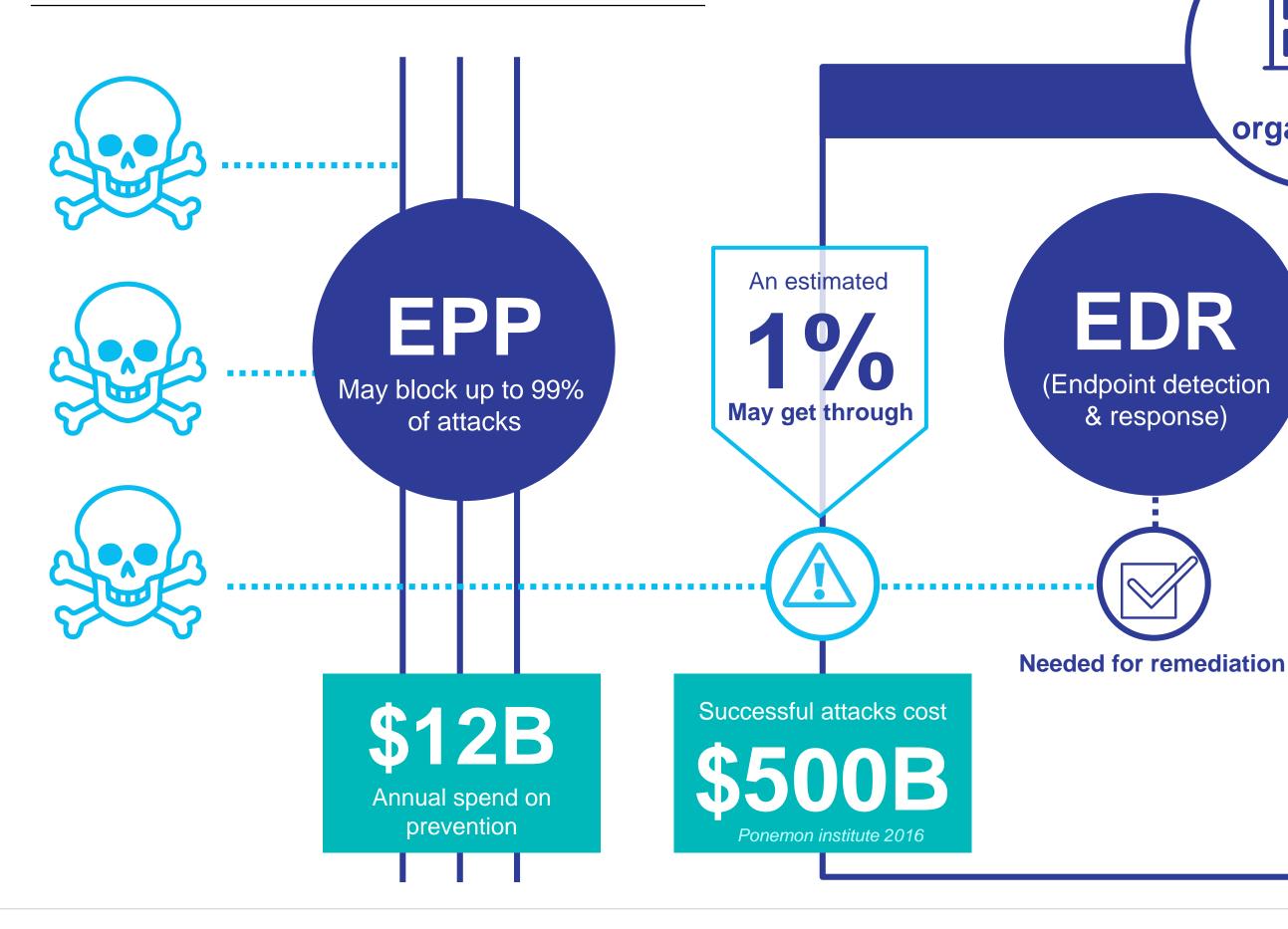




Prevention is important, but not sufficient **EDR** is essential for complete cybersecurity

Attacks on your organization

Tens of thousands daily



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Only EnCase sees:

- Lateral movement •
- Rogue user accounts
- Polymorphic malware
- Cloud endpoints
- Encrypted data
- Phishing attacks
- Ransomware
- IoT •

Visibility is a critical gap Organizations report

little to no visibility in:

87%

visibility

86% repositories

Cloud

Anomalous 81% behavior

78% IOCs

Sans Survey, 2016

USBs





GDPR Incident Response Requirements

Article 33

- aware of it, notify the personal data breach to the supervisory data breach is unlikely to result in a risk to the rights and freedoms of natural persons.
- The notification referred to in paragraph 1 shall at least:
 - of personal data records concerned;
 - describe the likely consequences of the personal data breach;

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In the case of a personal data breach, the controller shall without undue delay and, where feasible, not later than 72 hours after having become

authority competent in accordance with Article 55, unless the personal

describe the nature of the personal data breach including where possible, the categories and approximate number of data subjects concerned and the categories and approximate number



GUIDANCE (is now is now software Opentext

EnCase Endpoint Security





EnCase Forensic Security Endpoint Agent is the Platform for an Expanding Suite of Applications **opentext**[™] | EnCase[®]

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Endpoint Investigator is designed to handle HR, fraud and policy violation investigations and forensic analysis

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eDiscovery supports legal hold through load-file generation in support of in-house corporate legal matters



Endpoint Risk Manager is focused on identification of proprietary and sensitive information to support compliance needs

Digital Forensic Investigation/ Advanced incident response

- Forensic low-level analysis • Reverse engineering
- Incident investigations

Legal Investigation

• Information collection, legal hold and assessment

Compliance Operations

- Information search and classification
- Compliance monitoring •
- Compliance triage

Single EnCase[®] Endpoint Agent

Note: Forensic and Tableau innovation will be a continuing priority that will benefit from the EnCase Endpoint Investigator roadmap

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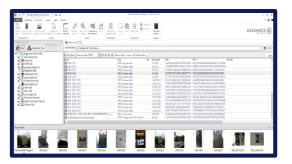
EnCase® Applications

Incident Response

• Incident analysis, handling and remediation

Security Operations

- Threat detection and intelligence
- Incident validation, triage, response

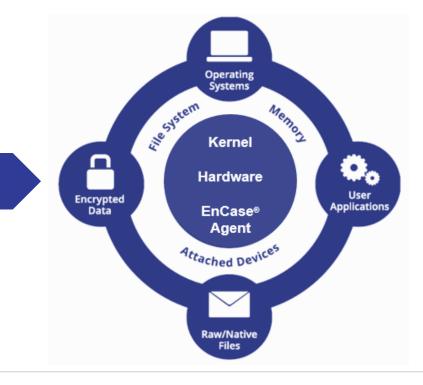


Endpoint Investigator is designed to handle advanced incident response and forensic analysis



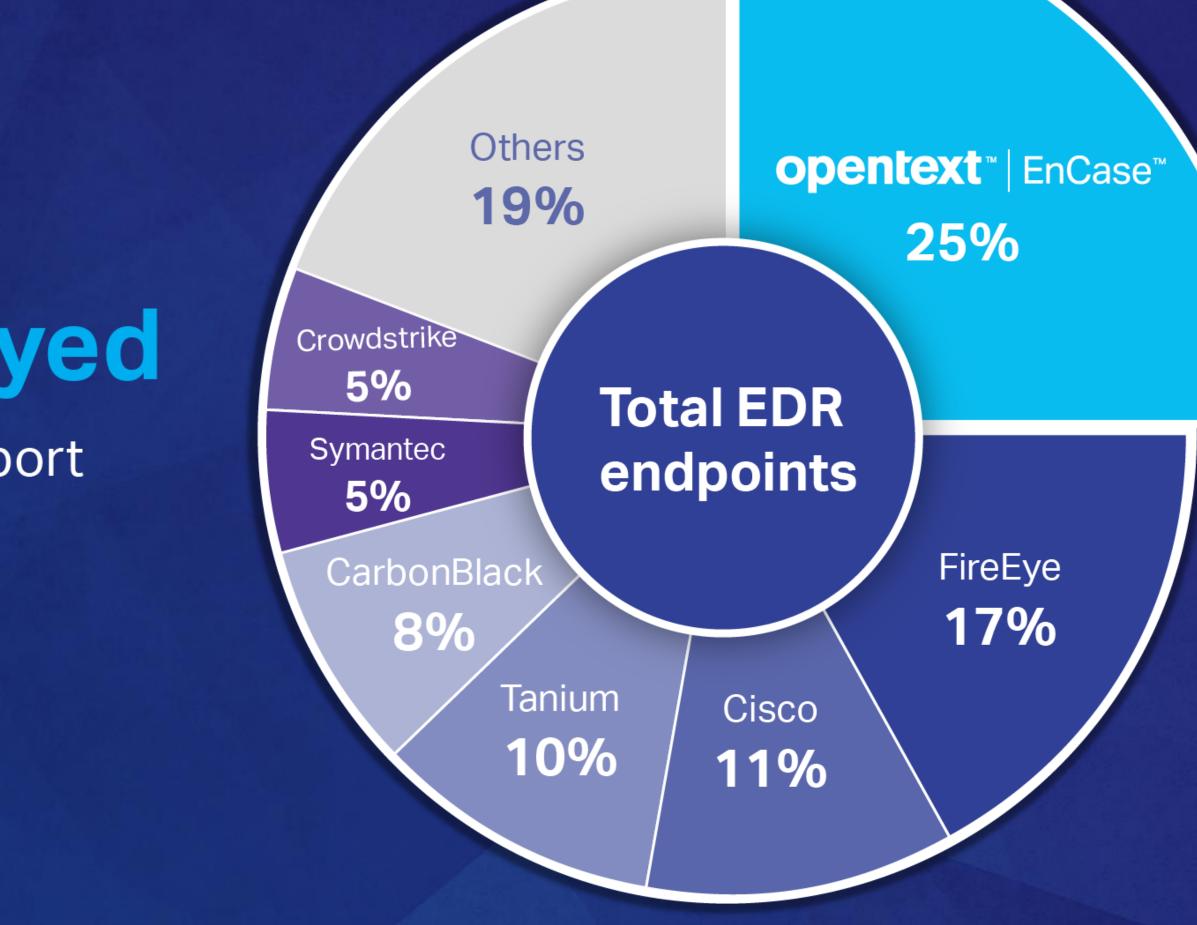
Endpoint Security is focused

on threat detection, alert triage and incident handling and NOT deep forensic analysis





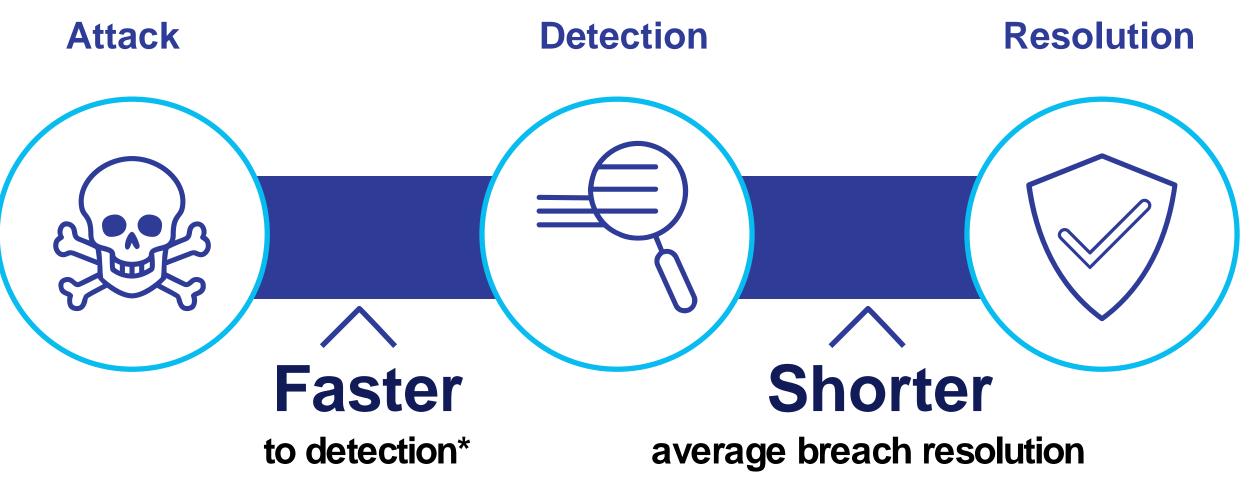
#1 in endpoints deployed Gartner EDR Competitive Landscape Report





Accelerate Time to Detect and Response to Threats

EnCase Endpoint Security aligns with the threat detection and response requirements of numerous regulations and mandates such as:



- PCI-DSS
- HIPAA-HITECH
- GDPR

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Fewer resources, less exposure and reduced level of risk at a lower cost



Who Uses EnCase Endpoint Security?

Advanced IR / DFIR

5+ years experience

Low-level Forensic Analysis Reverse engineering Threat hunting / Intelligence gathering

Incident Responder

3+ years experience

Incident analysis Incident handling & remediation

SOC Analyst

0-2 years experience

Monitoring & Triage Forensic Acquisitions

TIER

TIER

TIER

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EnCase[®] Endpoint Investigator

Endpoint Investigator is designed to handle advanced IR forensic analysis.

EnCase® Endpoint Security

Endpoint Security V6 is focused on threat detection, alert triage, and incident handling and NOT deep forensic analysis.





EnCase Endpoint Security...

Proactive threat detection, alert triage, and incident response

Detect sooner

- Expose internal or external risks or threats with anomaly-based detection
- Reduce the time to discover a compromise

Respond faster

- Increase efficiency and ROI with on-demand and automated response
- Reduce the total time and costs of response

Recover effectively

- Remediate a threat completely; eliminate wipe and reimage process
- Accurately asses impact to sensitive data and clean up data spillage

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Differentiated Features

- Scan for Indicators of Compromise (loCs), and detect bad actors
- Validate the presence of any threat
- Deliver automated response via integration with alerting tools
- Forensic-grade targeted remediation – remotely delete files, kill processes, and reset registry keys





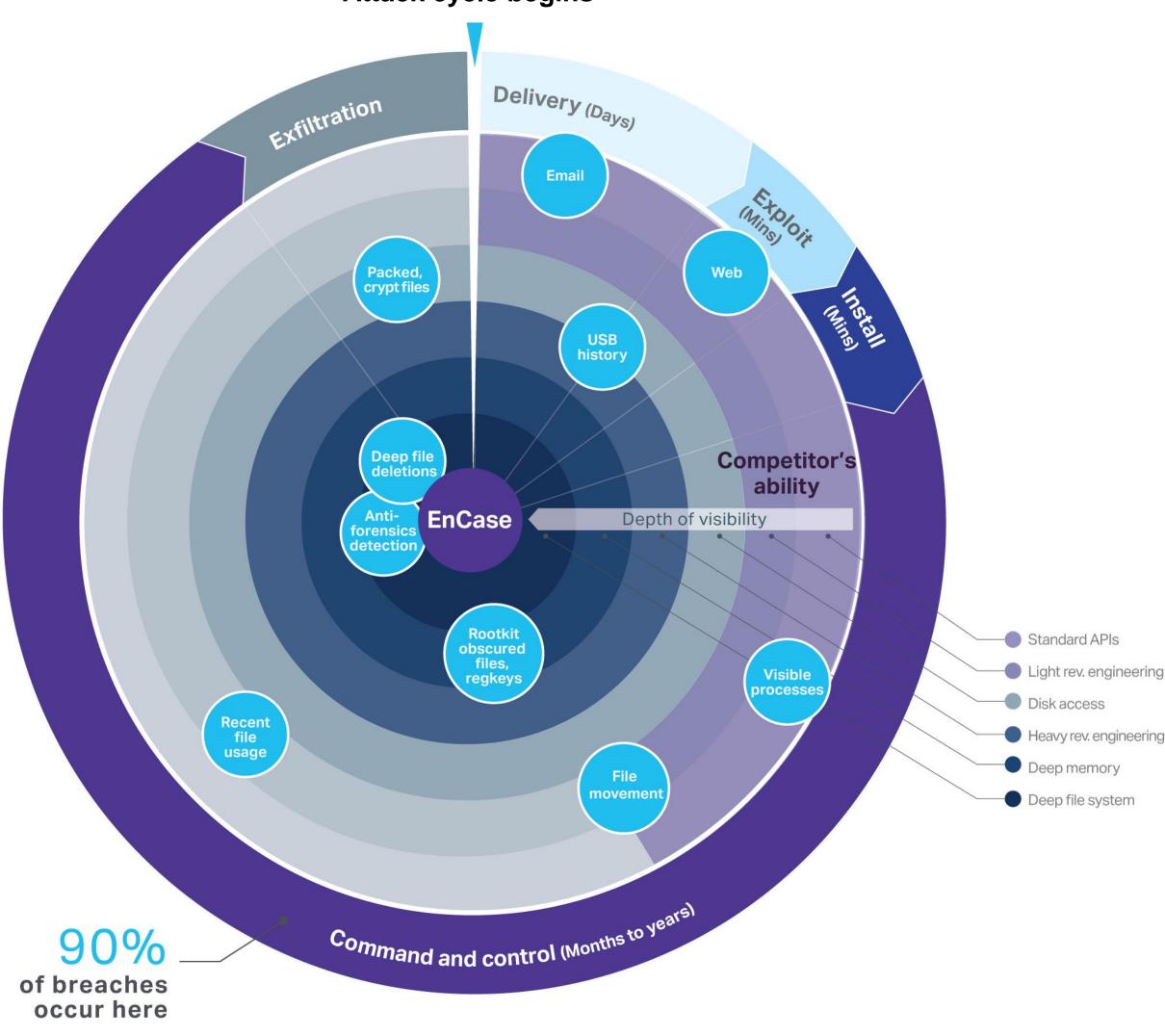


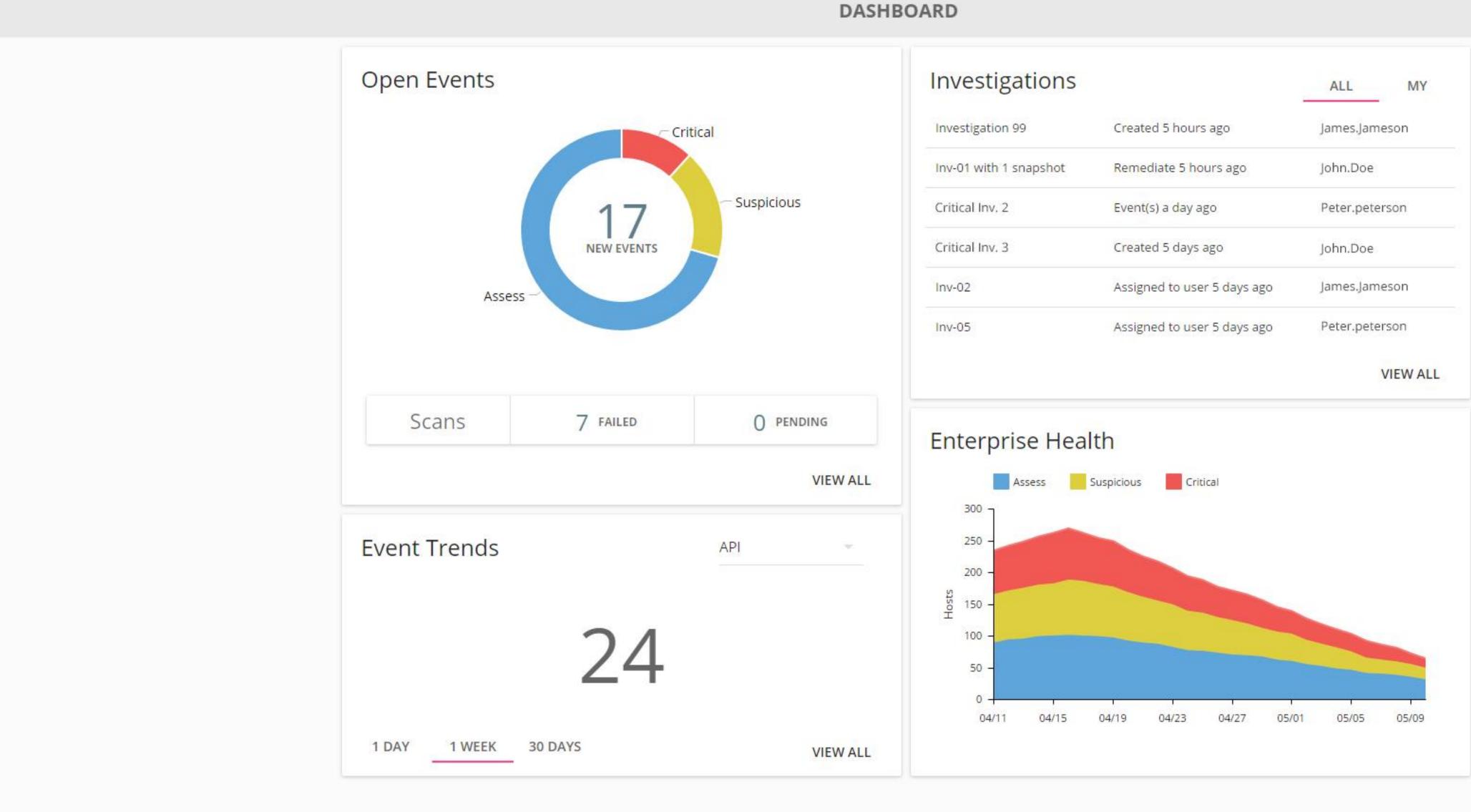
...with 360-degree visibility

- Uncover forensic residue across every stage of the attack cycle
- Reveal data security risk, no matter how well hidden
- Approach addresses both external and insider threats
- Visibility unmatched by surface level competitors









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EnCase[®] Endpoint Security

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	ARCSIGHT-2-5		2017/05/05	0956	DEV -1234567.rd.iridium	Assess	20	tsusbhub.sys Malicious Conne	ctions
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EVENTS

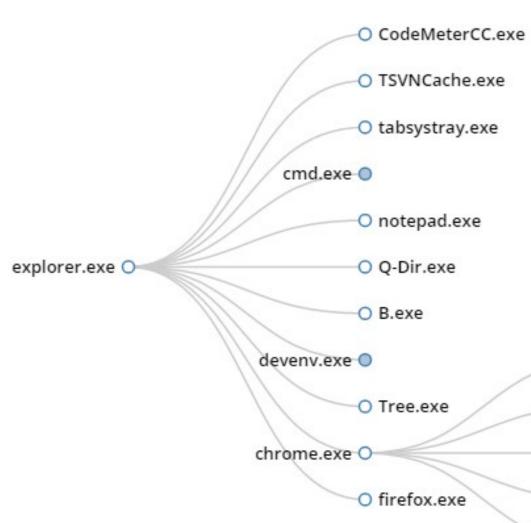
EVENT ID	SPLUNK-2-32
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SOURCE	API
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ALERT SCORE	20
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COMMENT	Policy violations detected
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EnCase[®] Endpoint Security

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Process 'chrome.exe'



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INVESTIGATION

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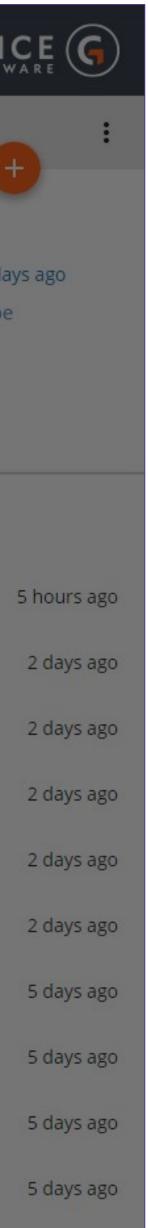
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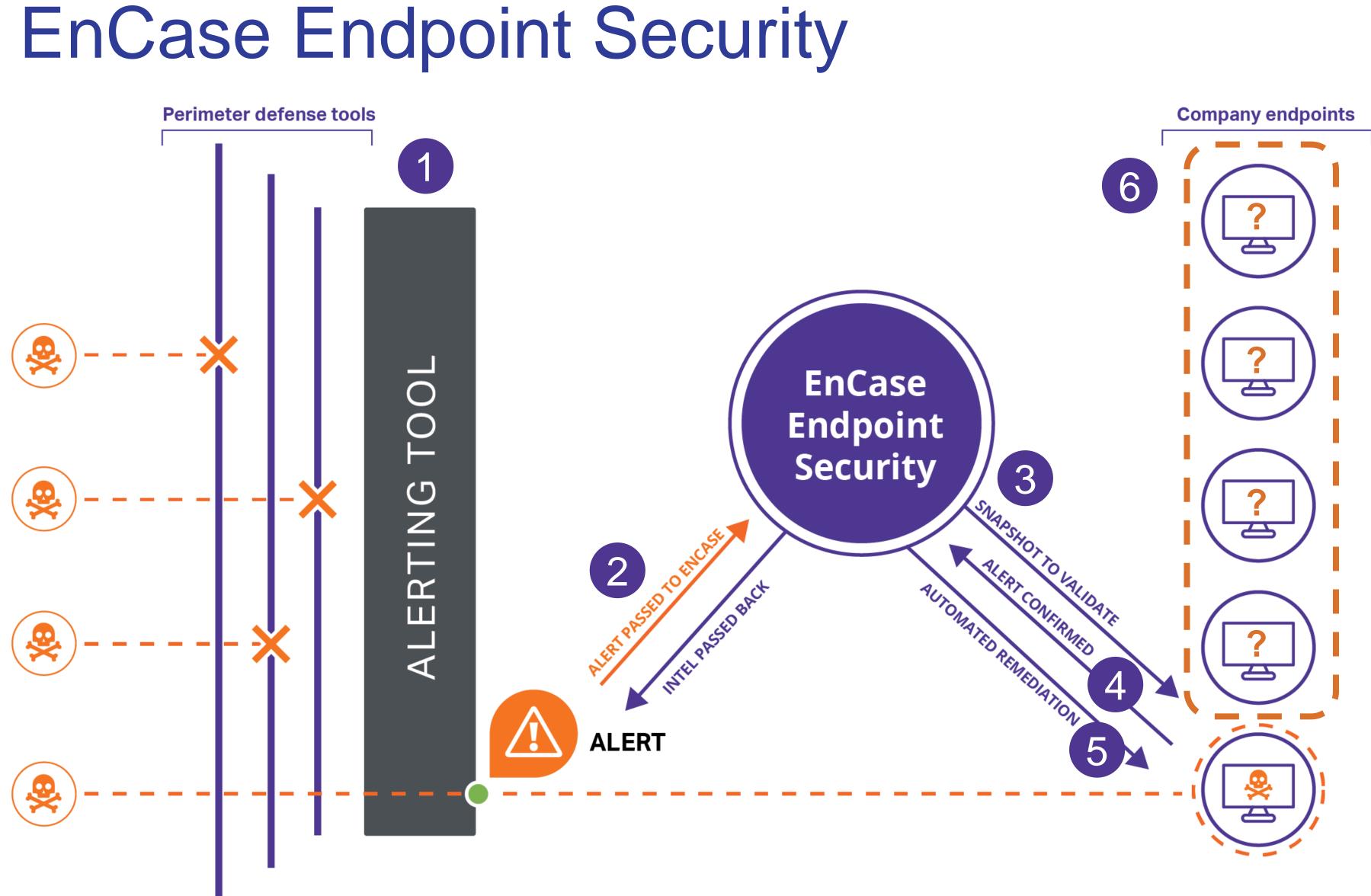
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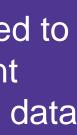
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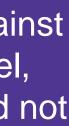




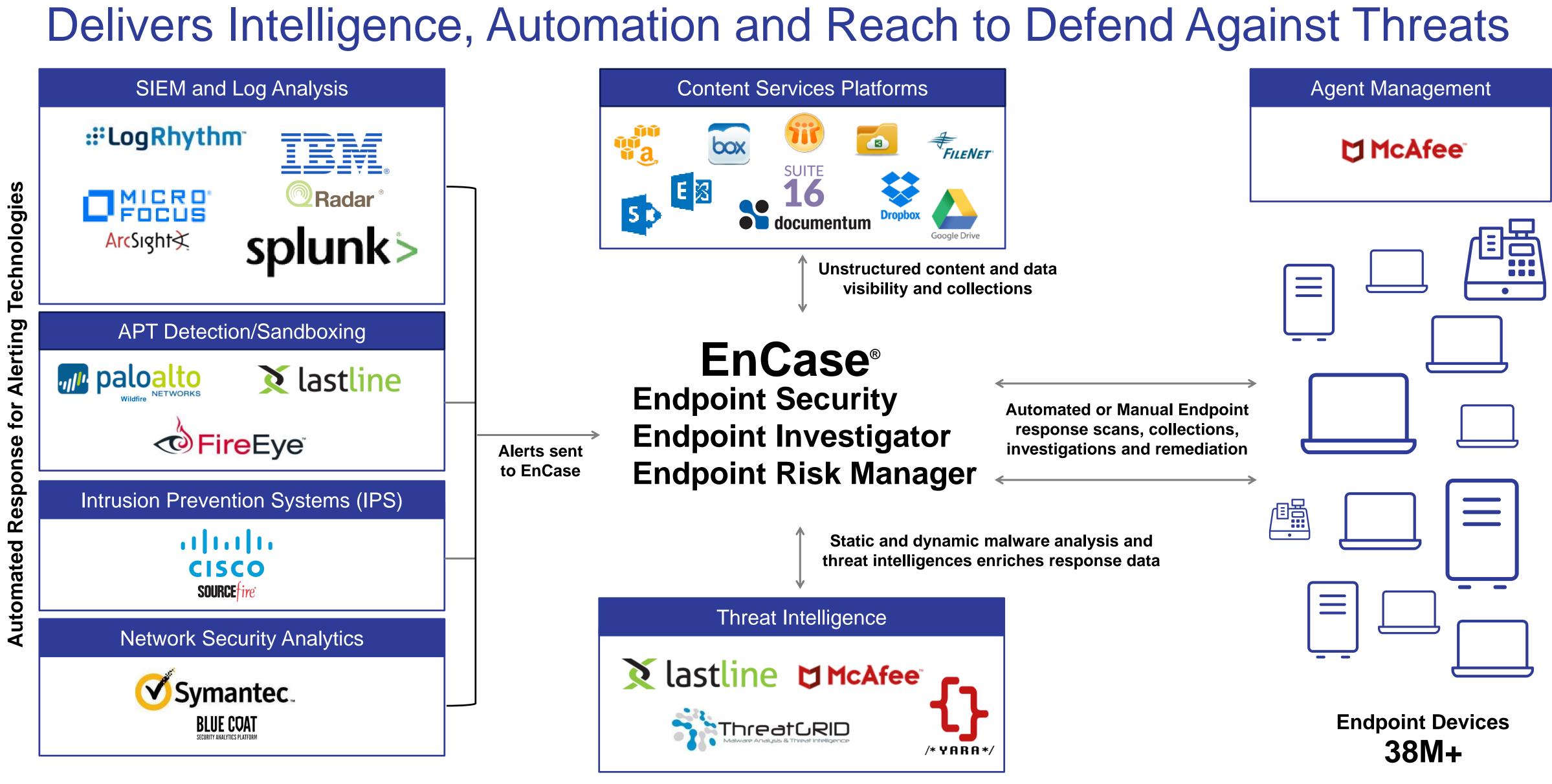
- Alerts generated indicating 1. a potential threat got through defenses.
- 2. 3rd Party tool configured to send EnCase Endpoint Security (ES) relevant data to query endpoints.
- 3. ES takes alert data, and queries endpoints for evidence of threats.
- 4. ES generates a critical event based on confirmation of threat.
- 5. Analyst confirms results and, using ES eliminates the threat from the device.
- At this point, analyst 6. queries enterprise against newly found threat intel, ensuring the threat did not spread.





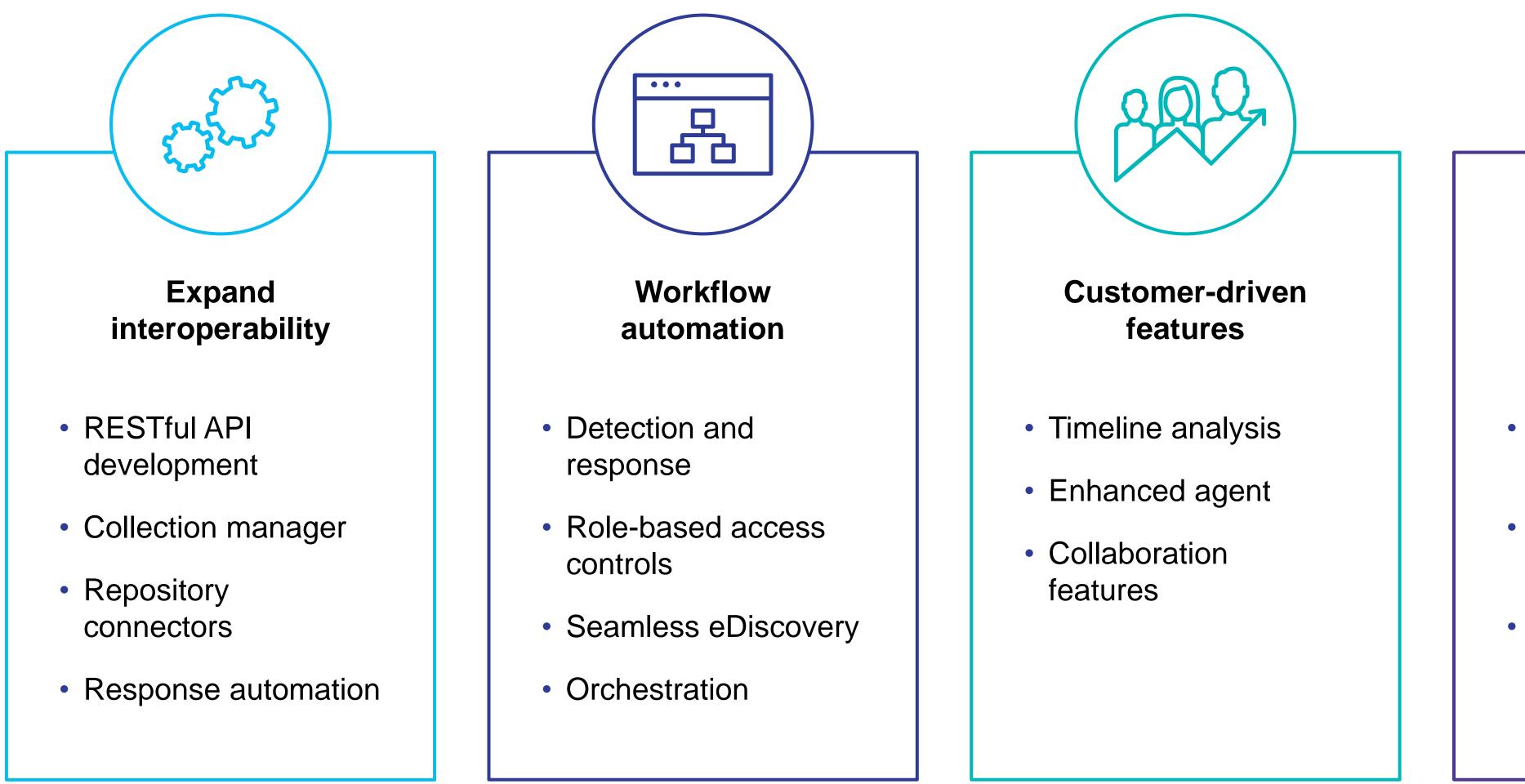


EnCase Ecosystem





Roadmap key themes and examples





- Continuous monitoring
- Enhanced threat intelligence
- IoT agents (Raspian, Windows IoT)





Rol Analysis: Global Automobile Manufacturer

Situation: Prior to deployment, customer suffered lengthy server downtime, alert fatigue and lengthy response times.

Solution: With EnCase Endpoint Security customer dramatically reduced response time, and experienced a rapid ROI by increasing the update of loan processing servers in particular.

- Savings of over **\$2.4 millions** in incidentrelated costs
- **388%** > Reduced time to validate and triage threats by 89%
 - Reduced time to remediate breaches by **90%**
 - Reduced impact on server downtime by **98%**

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ROI



Key Benefits

Business Stakeholders

- Add immediate value to existing operational teams
- Reduce costs related to training and remediation
- Mitigate business risks and ensure compliance

Operational Users

- Quickly validate security incidents
- Less user frustration and human error
- Open RESTful APIs for an integrated best-of-breed solution
- Installs and up and running in hours



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EnCase Endpoint Investigator





EnCase Forensic Security Endpoint Agent is the Platform for an Expanding Suite of Applications **opentext**[™] | EnCase[®]

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Endpoint Investigator

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eDiscovery supports legal hold through load-file generation in support of in-house corporate legal matters



Endpoint Risk Manager is focused on identification of proprietary and sensitive information to support compliance needs

Digital Forensic Investigation/ Advanced incident response

- Forensic low-level analysis
- OS Reverse engineering
- Incident investigations (post-mortem)

Legal Investigation

• Information collection, legal hold and assessment

Compliance Operations

- Information search and classification
- Compliance monitoring
- Compliance triage

Single EnCase[®] Endpoint Agent

Note: Forensic and Tableau innovation will be a continuing priority that will benefit from the EnCase Endpoint Investigator roadmap

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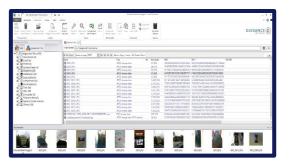
EnCase® Applications

Incident Response

• Incident analysis, handling and remediation

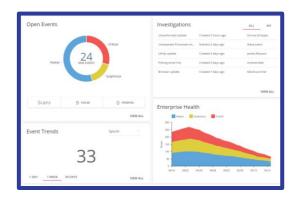
Security Operations

- Threat detection and intelligence
- Incident validation, triage, response

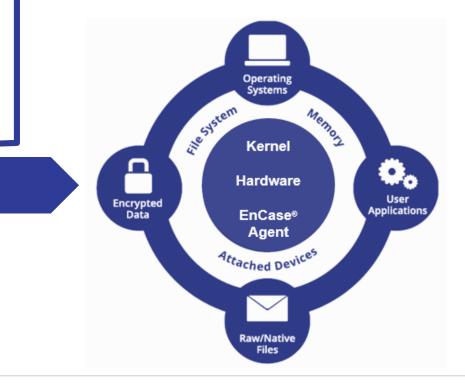


Endpoint Investigator is

designed to handle advanced incident response and forensic analysis



Endpoint Security is focused on threat detection, alert triage and incident handling and NOT deep forensic analysis





Who Uses EnCase Endpoint Investigator?

Advanced IR / DFIR

5+ years experience

Low-level Forensic Analysis Reverse engineering Threat hunting / Intelligence gathering

Incident Responder

3+ years experience

Incident analysis Incident handling & remediation

SOC Analyst

0-2 years experience

Monitoring & Triage Forensic Acquisitions

TIER

TIER

3

TIER

2

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EnCase[®] Endpoint Investigator

Endpoint Investigator is designed to handle advanced IR forensic analysis.

EnCase® Endpoint Security

Endpoint Security V6 is focused on threat detection, alert triage, and incident handling and NOT deep forensic analysis.





EnCase Endpoint Investigator

Industry-standard digital investigations solution

Reduce cost and complexity

Remote investigations are more effective than alternative processes

Ensure confidence in findings

Disk-level visibility enables complete search and collection of relevant data

Investigate discreetly

Discreet investigations across the network without business disruption

Manage from a central location

Eliminate travel, employee downtime, and case duration with centrally managed investigations

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Differentiated Features

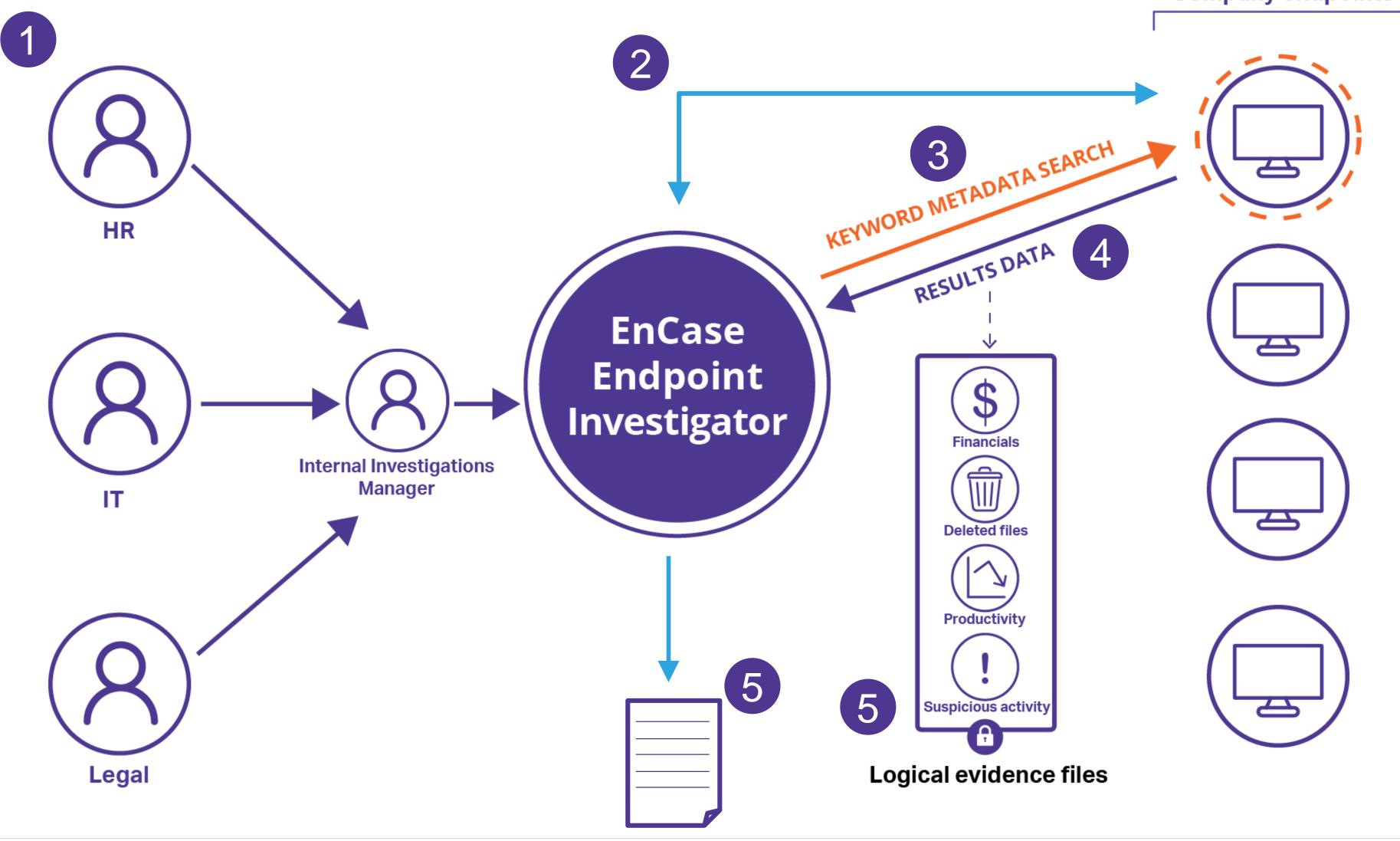
- Kernel-level agent-based access across the widest range of files and OS
- Templates and workflows for most common investigative tasks
- Roles and permissions to ensure authorized access to endpoints
- Complete access to disk, memory, and email







EnCase Endpoint Investigator



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Company endpoints

- 1. Internal Investigation Team Receives Request
- 2. Examiner (person) connects to subjects device via installed agent.
- 3. Keyword and date range searches are performed.
- 4. Examiner reviews results and collects responsive data.
- 5. Examiner generates final report for requesting party, and preserves findings in a logical evidence file.





Case Study: Global Insurance Company

- **Decision Maker:** Global Head Cyber Response & Office of Digital Investigations
- Required a means to address company-owned device digital forensic cases
- Global deployment across 108,000 nodes
- Why EnCase: other products did not scale well, and took too long to collect data across the global WAN; intuitive UI. Influencer (Global Corporate Forensics Manager) used EnCase at another company, and during his time at a federal agency.
- Endpoint Investigator is the gold standard in hard disk forensics. I appreciate the fact that EI could preview remote machines, have a tree-view of a machine, and conduct analysis from that preview without needing to conduct a complete acquisition."



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EnCase Innovation

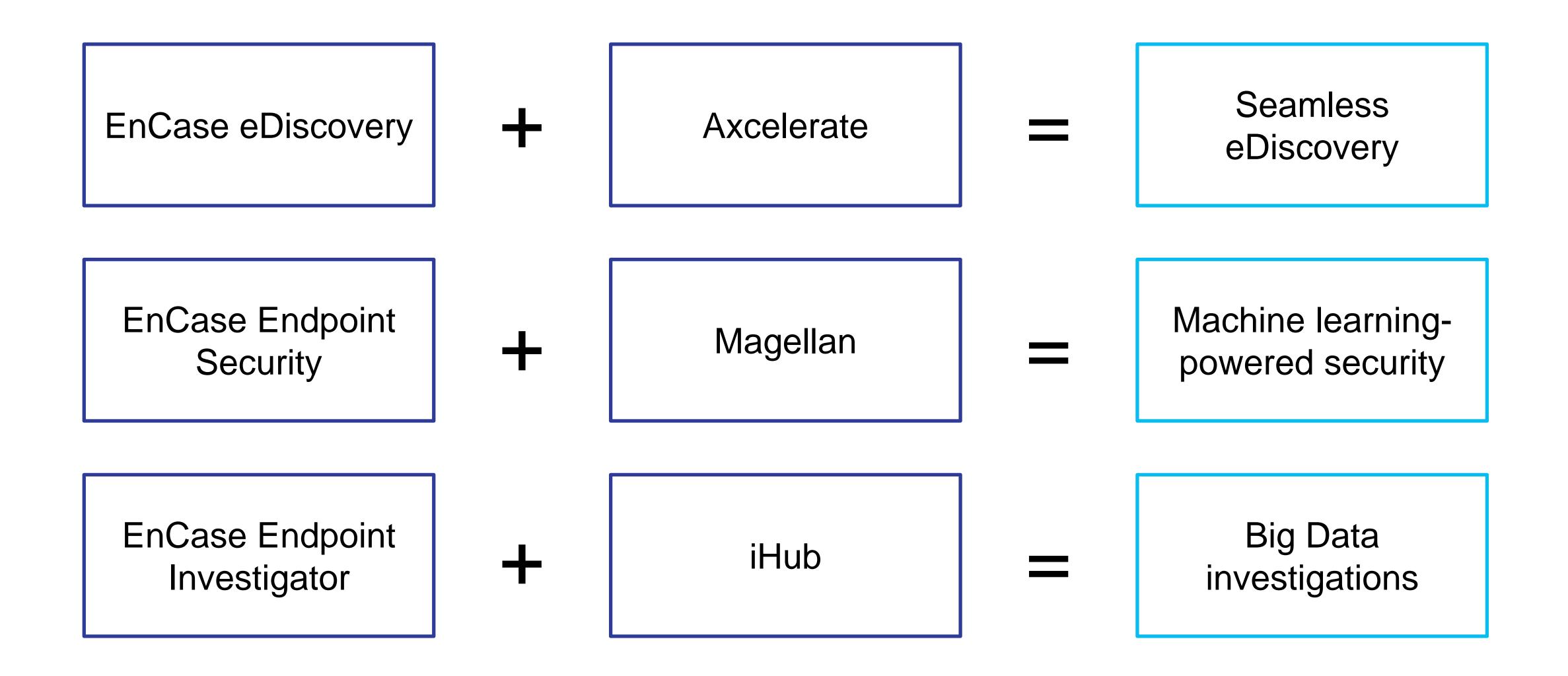
Strategy and Roadmap Briefing





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Portfolio Powering a New Wave of Innovation and Automation





Magellan Advances OpenText Security Strategy **Provides AI/Machine Learning Driven Insights and Automation opentext**[™] | Magellan

Content and Data

Enterprise Data

IoT Data

Enterprise Content

Social Content

Desktop Data

Open and Extensible Architecture with Wide Range of APIs

Data Discovery

• Access, blend, store, and analyze data, identifying business trends, gaps, and relationships

Machine Learning

- Apache Spark ML libraries powered by the open source community Machine Learning Designer simplifies the building and testing of algorithms

Text Analytics

• Natural Language Processing incl. sentiment analysis from web, social media, and documents sources

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Reporting & Dashboards

- Create, share, and embed reports, dashboards, and visualizations

Predictive Analytics

• Custom drag-and-drop data models created by data scientists in Apache Spark

Large Scale Data Processing (Spark Apache)

Al Based Insights

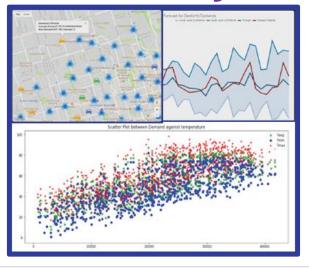
eDiscovery

Information Governance

Risk Management

Data Privacy

Information **Security**





EnCase Directions Leverage OpenText Portfolio and Partnerships to Drive Innovation

- Embedded Al/Machine Learning
- Ubiquitous Connectivity to Endpoints
 - On and off network agent connectivity and access
 - Agentless connectivity for endpoint analysis and threat detection
- Deeper Investigation and Remediation of Threats including Insiders
 - EnCase, Discovery, and Analytics integration brings new investigation capabilities
 - Anonymization, pseudonymization, and encryption of sensitive data on endpoints
- EnCase Ecosystem Expansion
 - •
 - Host intrusion prevention adds patient zero intelligence for threat hunting

 - Full scanning and analytics for cloud repositories, mobile devices, and IoT devices

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Endpoint Security integration with Magellan to hunt, detect, and remediate unknown threats Discover sensitive data in context of compliance mandates and find new relationships for investigations

Security orchestration advances workflow automation to shorten the time to detect and remediate threats Data centric security intelligence including file analytics, DLP, and DRM for advanced remediation actions









Key Takeaways

- Information security is a fundamental requirement for best-of-breed information management
- EnCase provides a foundation for data-centric security
- OpenText reach has extended to nearly 40 million installed endpoint agents around the globe
- Managed services expanded to include world-class threat hunting, incident response, and investigations
- OpenText will leverage EnCase to innovate across other technologies solving new problems for our customer base



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