

# An MSP's guide to endpoint detection and response (EDR): The key to providing better-managed security services



# Overview

### It's one of the most challenging problems of running your MSP business.

You must invest in robust cybersecurity tools to keep your clients protected. Ye at the same time, you need to maintain healthy profit margins.

You cannot afford to lose the trust of your customers by putting their IT assets risk. So it's imperative you have measures in place to defend them from today' highly sophisticated methods of attack. But these measures come at a cost, which either you or your clients must bear.

That's why it's so important to make the right choice of security solution. It mus not only be fit for purpose, but also provide value for money and represent a positive addition to your portfolio of managed services.

In this guide, we discuss how endpoint detection and response (EDR) system can help meet these objectives.

It explains how EDR works and how it differs from traditional endpoint protection technology. It explores the benefits that EDR can bring to your MSP business. And it also looks at what to consider in your choice of an EDR solution.

But we start with the basics by clarifying what exactly a security incident means.

### **Growth opportunity for MSPs**

	According to research published by market intelligence and advisory compa
′et,	Mordor Intelligence, the value of the global endpoint detection and response
	(EDR) market was an estimated USD 1.76 billion in 2020.
sat	The report forecasts this to reach USD 6.72 billion by 2026, representing a
′'S	compound annual growth rate (CAGR) of 25.15% during the period 2021–2020
	It said the driving forces behind this rapid growth were the increasing numbe
	data breaches worldwide and the demand for more decentralized and edge
st	based security approaches.
	For MSPs that offer EDR as part of their portfolio of services, this presents an
	opportunity to stand out in the marketplace, generate more revenue for their
IS	business and provide the protection customers need against emerging threa
	in today's technology landscape.



## What is a security incident?

A security incident is a broad term to describe a collection of events and detections that could indicate an attack on an information system.

It may be an attempt to gain unauthorized access to resources or it may be a denial-of-service (DoS) attack, whereby hackers flood systems with huge numbers of server requests in a bid to bring them down.

Unlike a full-blown security breach, a security incident doesn't necessarily mean your data has been compromised. But, even if it hasn't yet developed into a breach, a security incident still poses a serious threat to your data and requires prompt corrective action.

In the context of an EDR system, a security incident is characterized by a series of aggregated alerts to events that correlate to the same developing attack.



## "It takes 20 years to build a reputation and a few minutes of cyber-incident to ruin it."

### Stéphane Nappo,

Global Chief Information Security Officer, Groupe SEB.

Source: Blue-Pencil.ca



### What exactly is an endpoint?

An endpoint is any device or node that serves as a source or destination for communication over a network. Examples of endpoints include:

- Desktop computers
- Laptops
- Tablets
- Smartphones

- Printers
- Servers
- ATM machines
- Internet-of-things (IoT) devices

But they do not typically include devices designed to manage and forward data communication, such as:

Routers

Firewalls

Gateways

Load balancers

The concept of an endpoint has played an increasingly important role in cybersecurity in recent years. This has largely been the result of the growing trend toward remote work and bring-your-own-device (BYOD) policies.



## What is EDR?

Endpoint detection and response (EDR) is a technology that provides your security teams with the tools they need to detect and respond to threats to your systems as and when they happen.

It works by collecting data from workstations and other endpoints for threat analysis, enriching it with contextual information to help you prioritize remedial action.

EDR identifies attacks that bypass traditional frontline defenses, such as firewalls, antivirus software, and endpoint protection platforms (EPPs).

As with EPP, EDR is an endpoint security technology. But it differs from EPP i many different ways.

For example, EPPs have traditionally been geared toward signature-based detection of threats. This means they could only generally detect known attacks. However, they have evolved to include a wider range of functionality, such as the ability to block previously unknown malware and untrusted processes and applications, as EPPs have been using heuristics for 20-plus years to detect unknown malware.

They also work in the background, blocking attacks at the point of entry. By contrast, EDR is mainly a detection and remediation technology that monitors endpoint activity for potential signs of an attack and requires active supervision to deal with the results of its findings.

		EPP	EDR
	Security strategy	Prevention	Detection
	Protection mode	Passive	RTO and RPO dependent or integration with backup and recovery vendors
9	(Runs automatically in the background without supervision)	Active	SentinelOne cannot provide business continuity nor restorat It is not integrated with backu and recovery vendors
n	(Provides security teams with real-time incident response and investigation capabilities)	Better value - a single license for a single platform for backup + recovery + advanced security + EDR, pay-as-you-go	Hidden costs adding other ven backup/recovery solutions; additional licenses for XDR serv
	Primary method of detection	Signature-based	Analysis of endpoint behavio
7 7	Effective against	Known malware	Zero-day exploits, hacking tools, fileless attacks, advance persistent threats (APTs)
	Layer of protection	Basic first line of defense	Advanced detection of attacks to bypass other defense layers
	False positives	Low	Higher probability
<u>)</u>	False negatives (Missed detection)	High	Low



### Why do MSPs need EDR?

Traditional security approaches, such as antivirus, firewalls, and EPPs are no longer sufficient to safeguard modern IT deployments — as the majority of successful cyberattacks today use previously unknown malware.

However, EDR offers the protection your customers need against today's new and more sophisticated threats. It provides visibility into endpoints and realtime investigation and incident response capabilities. This allows you to play a more active role in their security.

It will give you peace of mind that you're in control and will serve as an indispensable tool without which breaches can go undetected and potentially take months to identify and contain.

But beware: EDR is intended to complement rather than replace conventional security tools. Attackers are always on the lookout for easy targets. So it's important you still maintain your frontline defenses against more basic malware threats.

### What is XDR?

Extended detection and response (XDR) works in much the same way as EDR. However, it takes a more holistic approach by monitoring and correlating information from a much broader range of collection points, such as networks, email, and cloud-based workloads.

The primary goal of XDR is to integrate multiple products into a unified, cohesive security operations platform, providing visibility into all your security telemetry through a single pane of glass.



"I believe in having each device secured and monitoring each device, rather than just monitoring holistically on the network, and then responding in short enough time for damage control."

Kevin Mitnick,

American computer security consultant and the world's most notorious hacker.

Source: Brainyquote.com





## The MITRE ATT&CK framework

The MITRE ATT&CK framework is a freely accessible knowledge base that catalogs different types of adversary behavior based on findings from real-world cybersecurity attacks.

It provides a breakdown of individual steps and methods hackers follow to achieve specific tactical goals during an attack. This helps you understand how different types of attacks work and the measures you need to take to mitigate them.

The framework documents the various phases of an attack lifecycle in the form of a matrix — with different alternatives for different types of environment, such as Windows, Linux, macOS and cloud-based platforms.

The model can also help you evaluate existing defenses and prioritize detection.





## How EDR works

The specific operational capabilities of each EDR solution vary from vendor to vendor. However, they should all provide the same core functionality to help you through the following three phases of dealing with a security incident.

### Detection phase

EDR systems collect a lot of data and can generate a lot of alerts. To help keep However, the better the quality of information your EDR system provides, the better the decisions you'll make about prioritizing your responses. noise to a minimum, they should: Automatically respond to known indicators of compromise (IOCs) and contain or remediate the impact of any corresponding A fully featured EDR system will also give you a means of documenting malicious endpoint activity in real time.

- Deliver all endpoint telemetry to a central incident management console to aid incident evaluation and avoid duplicate work.
- Correlate alerts to security incidents, providing you with contextual information that you can quickly piece together to form of a clear picture of the attack.

## Prioritization phase

Using these insights, you should be able to determine:

- How the perpetrator initiated the attack
- Any lateral movement of the attacker through your network
- The impact of the attack on your business
- The corrective steps you'll need to take
- The level of priority relative to other ongoing incidents
- Whether you need to carry out any additional investigation

- incidents and actions for later analysis.

## **Response phase**

EDR platforms also offer a range of features for managing your response to a security incident. For example, they should provide you with the ability to:

- Stop and contain the attack
- Quickly and efficiently roll back endpoints to their pre-infected state
- Remediate the vulnerability the attacker exploited and apply lessons learned from the attack
- Create automated playbooks for similar attacks
- Monitor endpoints after restore to prevent recurring breaches

## How to manage a security incident

### Preparatory

#### Triade

Assess impact. Categorise incident. Assign incident manager. Check for false positive Is legal input needed?

#### **Escalate**

If required. Within IR Team or to CIO / CISO who may escalate further.

#### Kick off response

Who else needs to be involved? IT, Legal, HR, PR? Consider internal and external parties.

#### Reporting

Consider reporting and evidence capture requirements. For example, in the case of a data breach.

### Core response

**Incident Management — as required throughout** 

### Analyze Capture and analyse data/information

### **Contain / Mitigate**

Stop or lower the impact, prevent spread of the problems. Consider the potential impact of **all** actions.





## EDR challenges for MSPs

There's no shortage of EDR offerings available on the market. However, MSPs have very specific needs. So, they should look for a solution that fits around their role as a third-party company responsible for managing the IT of numerous different customers.

This is no easy challenge given the problems MSPs encounter with many of the EDR products currently at their disposal. For example:

- The insights many EDR systems provide are generally only suitable for users with a high level of technical expertise. However, security professionals are expensive. This puts them outside the domain of most MSPs and makes such solutions ill-suited to their business objectives.
- EDR platforms often generate a large number of alerts to low-level events and incidents. But, without a wider contextual understanding, investigation can be a very complex and time-consuming exercise — all the more so for MSPs with limited manpower to piece together the full facts and get to the root cause of the incident.
- Backup and disaster recovery (DR) mechanisms are rarely integrated into EDR solutions. This makes recovery from an attack all the more cumbersome, as MSPs need to use separate tools to restore systems and fully remediate the threat.



### Acronis

## **Built for MSPs**

MSPs should therefore look for EDR solutions that are built with their needs in mind. Ideally, these should include:

- Automatic, easy-to-understand interpretation of attacks: That way, you won't need to analyze hundreds of lines of logs, helping you to reduce threat investigation and response times from hours to just a few minutes.
- Centralized response management: So you can investigate, remediate, and recover from breaches quickly and easily via a single console.
- Integrated backup, rollback, and DR: Through which you can get customers If you can achieve this objective, you'll be able to stand out in a crowded marketplace. You'll be able to command a premium for your security capabilities. up and running again as quickly and efficiently as possible, seamlessly But, above all, you'll open up new revenue opportunities for your MSP business returning them to normal operation. and enjoy a much healthier bottom line.

## A competitive advantage

An EDR system can significantly enhance your portfolio of managed services, reducing the security risk to your customers through advanced protection against a new generation of more sophisticated attacks.

But, to realize the full potential of EDR, it should be simple and efficient to use. This will prove essential in maintaining your margins and preventing runaway COStS.



## Acronis

### **About Acronis**

Acronis unifies data protection and cybersecurity to deliver integrated, automated <u>cyber</u> <u>protection</u> that solves the safety, accessibility, privacy, authenticity, and security (<u>SAPAS</u>) challenges of the modern digital world. With flexible deployment models that fit the demands of service providers and IT professionals, Acronis provides superior cyber protection for data, applications, and systems with innovative next-generation antivirus, <u>backup</u>, <u>disaster recovery</u>, and endpoint protection management solutions powered by AI. With advanced <u>anti-malware</u> powered by cutting-edge machine intelligence and <u>blockchain</u> based data authentication technologies, Acronis protects any environment – from cloud to hybrid to on premises – at a low and predictable cost.

Founded in Singapore in 2003 and incorporated in Switzerland in 2008, Acronis now has more than 2,000 employees and offices in 34 locations worldwide. Its solutions are trusted by more than 5.5 million home users and 500,000 companies, and top-tier professional sports teams. Acronis products are available through over 50,000 partners and service providers in over 150 countries and 26 languages.

