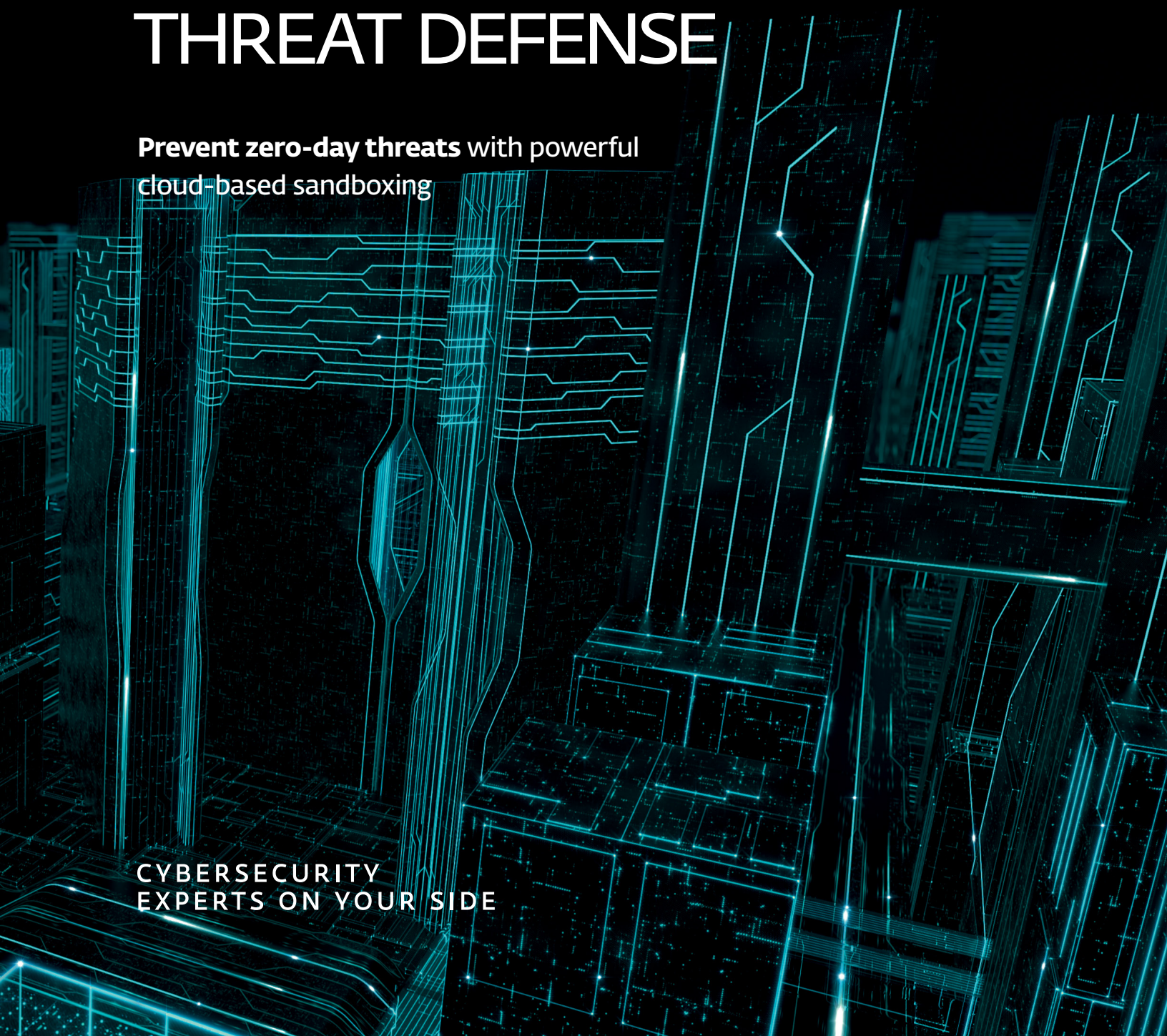
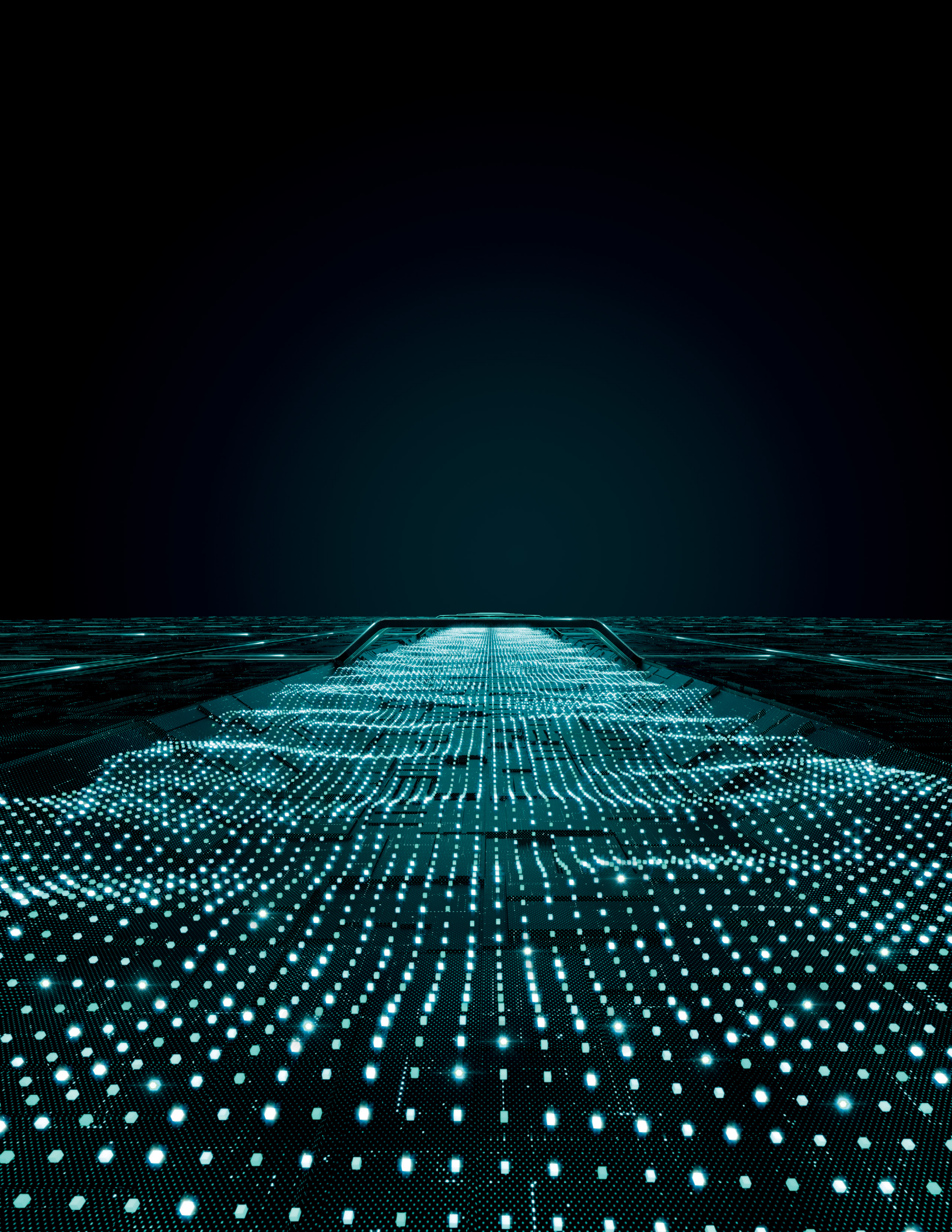
SOLUTION OVERVIEW

DYNAMIC THREAT DEFENSE

Prevent zero-day threats with powerful cloud-based sandboxing



CYBERSECURITY
EXPERTS ON YOUR SIDE



What is a **cloud security sandbox product?**

A cloud security sandbox is an isolated test environment in which a suspicious program is executed and its behavior is observed, noted and then analyzed in an automated manner.

ESET Dynamic Threat Defense provides another layer of security for ESET products like Mail Security and Endpoint products by utilizing a cloud-based sandboxing technology to detect a new, never-before-seen type of threat. This sandbox consists of multiple types of sensors that complete static analysis of code, deep inspection of the sample with machine learning, in-memory introspection and behavior-based detection.

Why a **cloud security sandbox?**

RANSOMWARE

Ransomware has been a constant concern for industries across the world ever since Cryptolocker in 2013. Despite ransomware existing for far longer, it was never a major threat that businesses were concerned about. However, now a single incidence of ransomware can easily render a business inoperable by encrypting important or necessary files. When a business experiences a ransomware attack, it quickly realizes that the backups it has are not recent enough, so the business feels as though it must pay the ransom.

A cloud security sandbox product provides an additional layer of defense outside of a company's network to prevent ransomware from ever executing in a production environment.

TARGETED ATTACKS AND DATA BREACHES

Today's cybersecurity landscape is constantly evolving with new attack methods and never-before-seen threats. When an attack or data breach occurs, organizations are typically surprised that their defenses were compromised or are completely unaware that the attack even happened. After the attack is finally discovered, organizations then reactively implement mitigations to stop this attack from being repeated. However, this does not protect them from the next attack that may use another brand-new vector.

A cloud security sandbox's approach is much more effective than just looking at the appearance of the potential threat because it goes beyond just the mere appearance and instead observes what the potential threat does. This helps it be much more conclusive when determining if something is a targeted attack, advanced persistent threat, or benign.

A cloud security sandbox product provides an additional layer of defense outside of a company's network.

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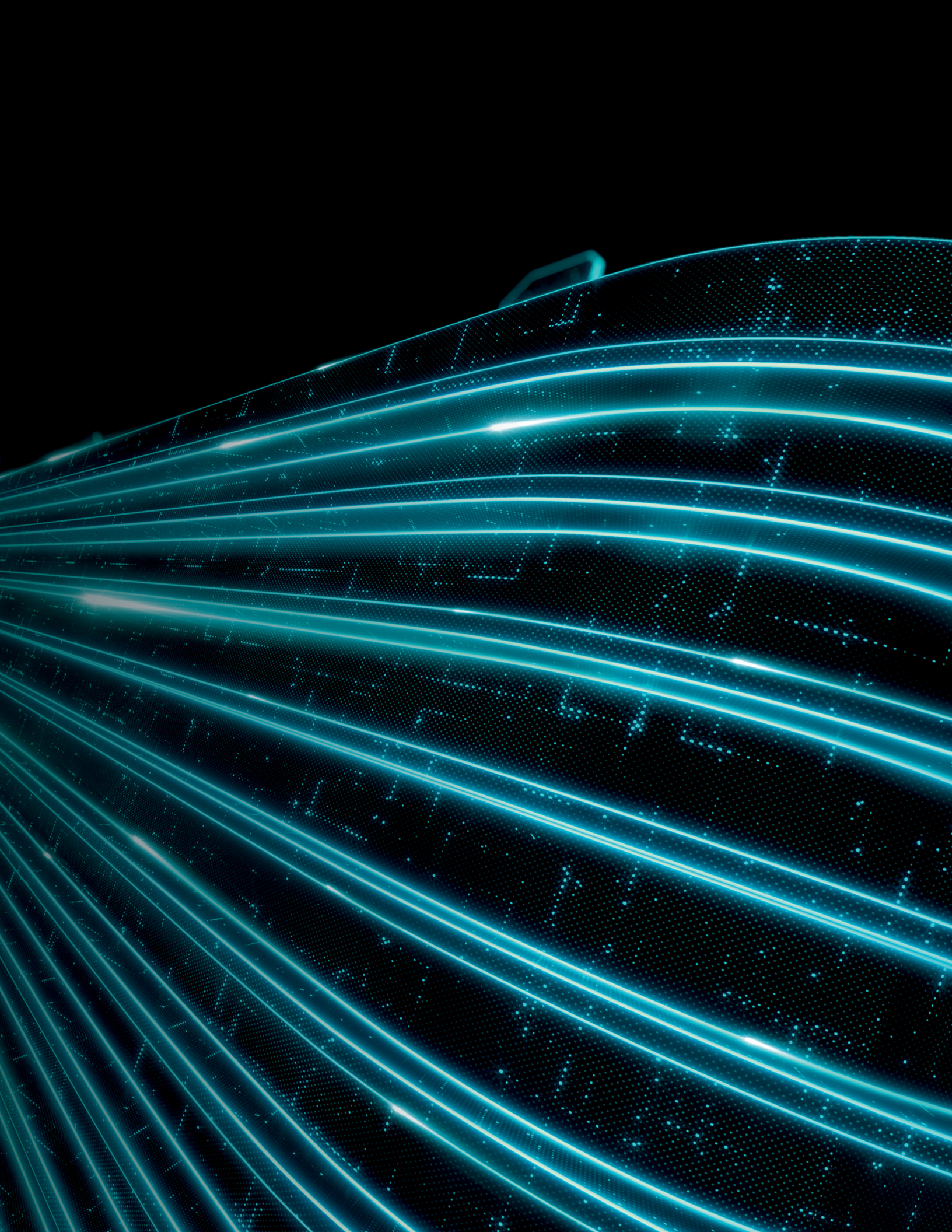
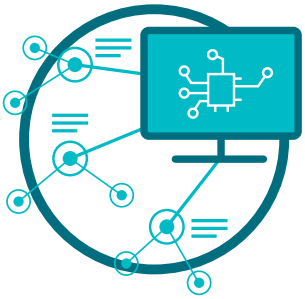


Our products and technologies stand on 3 pillars

ESET LIVEGRID®

Whenever a zero-day threat such as ransomware is seen, the file is sent to our cloud-based malware protection system—LiveGrid®, where the threat is detonated and behavior is monitored. Results of this system are provided to all endpoints globally within minutes without requiring any updates.

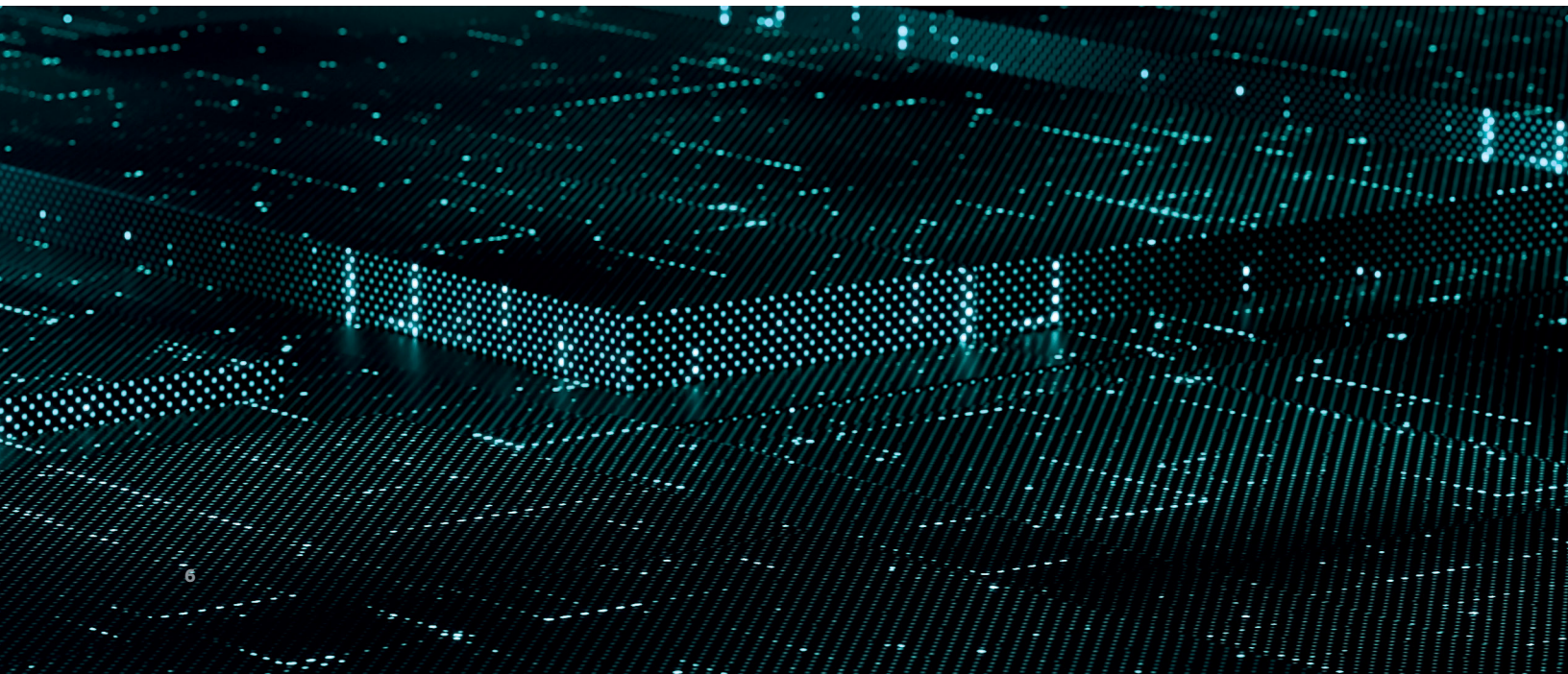


MACHINE LEARNING

Uses the combined power of neural networks and handpicked algorithms to correctly label incoming samples as clean, potentially unwanted or malicious.

HUMAN EXPERTISE

World-class security researchers sharing elite know-how and intelligence to ensure the best round-the-clock threat intelligence.



The ESET difference

MULTILAYERED PROTECTION

Within Dynamic Threat Defense, ESET utilizes 3 different machine learning models once a file is submitted. After that, it runs the sample through a full sandbox which simulates user behavior to trick anti-evasive techniques. Next, a deep learning neural network is used to compare the behavior seen versus historical behavioral data. Last but not least, the latest version of ESET's scanning engine is used to take everything apart and analyzed for anything unusual.

FULL VISIBILITY

Every analyzed sample is listed in ESET Security Management Center console with various information about the sample itself and its origin. All information is displayed in an easy-to-understand form. Not only do we simply display samples that were sent to ESET Dynamic Threat Defense but everything that is sent to ESET's Cloud Malware Protection System—ESET LiveGrid®.

MOBILITY

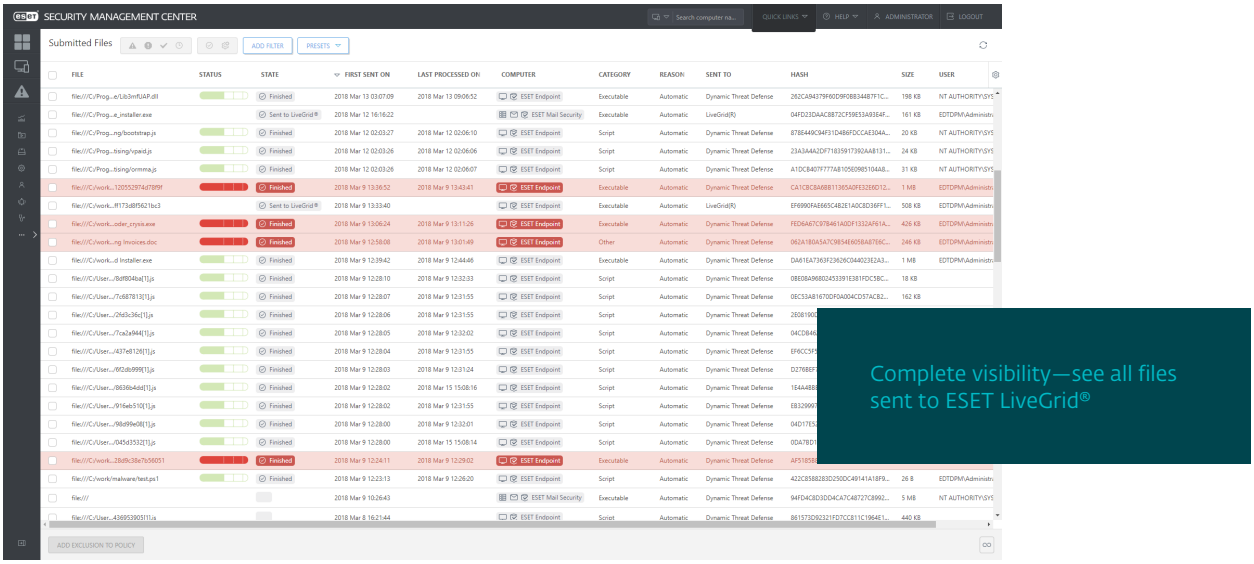
Nowadays, customers are constantly traveling and not on premise, that is why ESET Dynamic Threat Defense is able to analyze files no matter where users are. The best part is that if anything malicious is detected, the whole company is immediately protected.

UNPARALLELED SPEED

Every minute counts, which is why ESET Dynamic Threat Defense is able to analyze the majority of samples in under 5 minutes. If a sample was previously analyzed, it is simply a few seconds until all devices at your organization are protected.

PROVEN AND TRUSTED

ESET has been in the security industry for over 30 years, and we continue to evolve our technology to stay one step ahead of the newest threats. This has led us to be trusted by over 110 million users worldwide. Our technology is constantly scrutinized and validated by third-party testers who show how effective our approach is at stopping the latest threats.



Use cases

Ransomware

USE CASE

Ransomware tends to enter unsuspecting users' mailboxes through email.

SOLUTION

- ✓ ESET Mail Security automatically submits emails that contain unknown files to ESET Dynamic Threat Defense.
- ✓ ESET Dynamic Threat Defense analyzes the sample, then submits the result back to Mail Security usually within 5 minutes.
- ✓ If the file was found to be malicious, ESET Mail Security automatically destroys the email that contained the malicious content.
- ✓ The malicious email never reaches the recipient.

Granular protection for different company roles

USE CASE

Every role in the company requires different levels of protection. Developers or IT employees require different security restrictions than the office manager or CEO.

SOLUTION

- ✓ Configure a unique policy per computer or per server in ESET Dynamic Threat Defense.
- ✓ Automatically apply a different policy based off a different static user group or Active Directory group.
- ✓ Automatically change configuration settings simply by moving a user from one group to another.

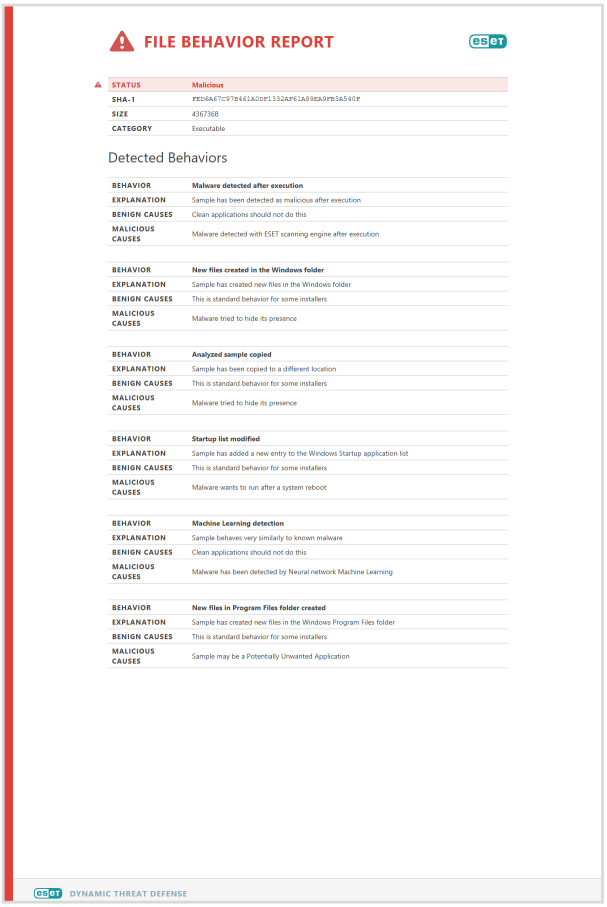
Unknown or questionable files

USE CASE

Sometimes employees or IT might receive a file that they want to double-check is safe.

SOLUTION

- ✓ Any user can submit a sample for analysis directly within all ESET products.
- ✓ The sample is quickly analyzed by ESET Dynamic Threat Defense.
- ✓ If a file is determined to be malicious, all computers in the organization are protected.
- ✓ IT admin has full visibility into the user who submitted the sample, and whether the file was clean or malicious.



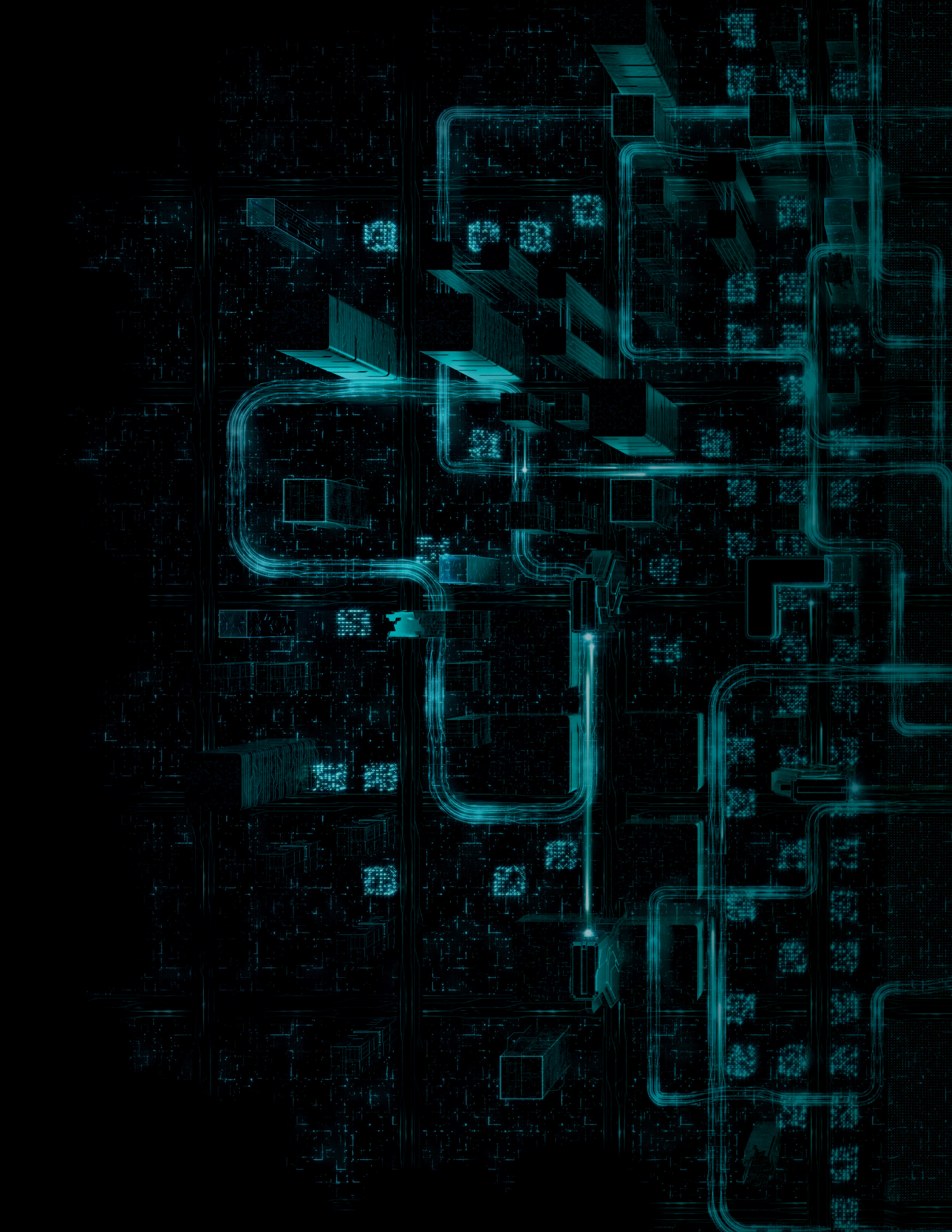
FILE BEHAVIOR REPORT

STATUS	Malicious
SHA-1	FED6A67C97B461A0DE1332AF61A89EA9FB5A540F
SIZE	4367368
CATEGORY	Executable

Detected Behaviors

BEHAVIOR	**Malware detected after execution**
EXPLANATION	Sample has been detected as malicious after execution
BENIGN CAUSES	Clean applications should not do this
MALICIOUS CAUSES	Malware detected with ESET scanning engine after execution
BEHAVIOR	**New files created in the Windows folder**
EXPLANATION	Sample has created new files in the Windows folder
BENIGN CAUSES	This is standard behavior for some installers
MALICIOUS CAUSES	Malware tried to hide its presence
BEHAVIOR	**Analyzed sample copied**
EXPLANATION	Sample has been copied to a different location
BENIGN CAUSES	This is standard behavior for some installers
MALICIOUS CAUSES	Malware tried to hide its presence
BEHAVIOR	**Startup list modified**
EXPLANATION	Sample has added a new entry to the Windows Startup application list
BENIGN CAUSES	This is standard behavior for some installers
MALICIOUS CAUSES	Malware wants to run after a system reboot
BEHAVIOR	**Machine Learning detection**
EXPLANATION	Sample behaves very similarly to known malware
BENIGN CAUSES	Clean applications should not do this
MALICIOUS CAUSES	Malware has been detected by Neural network Machine Learning
BEHAVIOR	**New files in Program Files folder created**
EXPLANATION	Sample has created new files in the Windows Program Files folder
BENIGN CAUSES	This is standard behavior for some installers
MALICIOUS CAUSES	Sample may be a Potentially Unwanted Application

DYNAMIC THREAT DEFENSE



ESET Dynamic Threat Defense technical features

AUTOMATIC PROTECTION

Once everything is set up, there is no action needed by the admin or the user. The endpoint or server product automatically decides whether a sample is good, bad or unknown. If the sample is unknown, it is sent to ESET Dynamic Threat Defense for analyzing. Once analysis is finished, the result is shared and the endpoint products respond accordingly.

TAILORED CUSTOMIZATION

ESET allows per-computer detailed policy configuration for ESET Dynamic Threat Defense so the admin can control what is sent and what should happen based off the receiving result.

MANUAL SUBMISSION

At any time, a user or admin can submit samples via an ESET compatible product for analysis and get the full result. Admins will see who sent what and what the result was directly in the ESET Security Management Center.

MAIL SECURITY PROTECTION

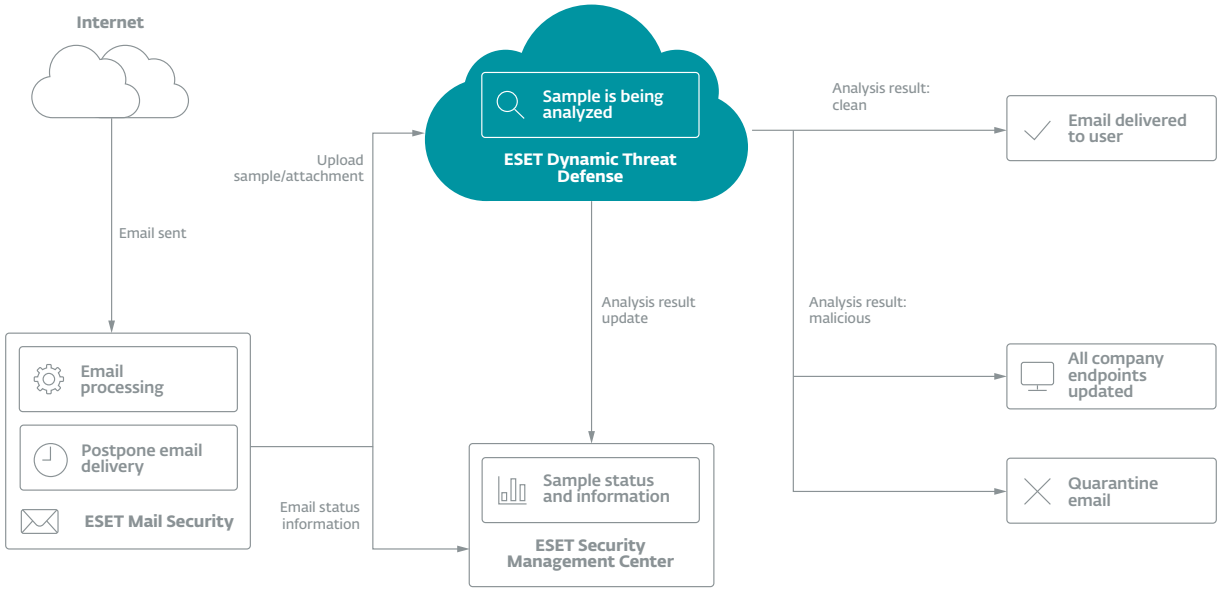
Not only does ESET Dynamic Threat Defense work with files, but it also works directly with ESET Mail Security to ensure that malicious emails are not delivered to your organization. To ensure business continuity, only emails coming from outside of the organization can be sent to ESET Dynamic Threat Defense for inspection.

"The biggest thing that stands out is its strong technical advantage over other products in the marketplace. ESET offers us reliable security, meaning that I can work on any project at any time knowing our computers are protected 100%."

— Fiona Garland, Business Analyst Group IT;
Mercury Engineering, Ireland; 1.300 seats

How **ESET Dynamic Threat Defense works**

With ESET Mail Security



"Our experience with ESET has been more than satisfactory, so much so that we have renewed our licenses for three more years. So, without a doubt, we recommend ESET solutions to all companies that want to increase their levels of security."

— Ernesto Bonhoure, IT Infrastructure Manager;
Hospital Alemán, Argentina, 1.500+ seats

About ESET

ESET—a global player in information security—has been named as the only challenger in the 2018 Gartner Magic Quadrant for Endpoint Protection Platforms.*

For more than 30 years, ESET has been developing industry-leading IT security software and services, delivering instant, comprehensive protection against evolving cybersecurity threats for businesses and consumers worldwide.

ESET is privately owned. With no debts and no loans, we have the freedom to do what needs to be done for the ultimate protection of all our customers.

ESET IN NUMBERS

110M+
users worldwide

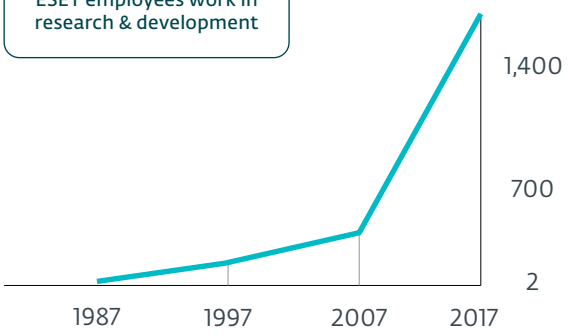
400K+
business customers

200+
countries & territories

13
global R&D centers

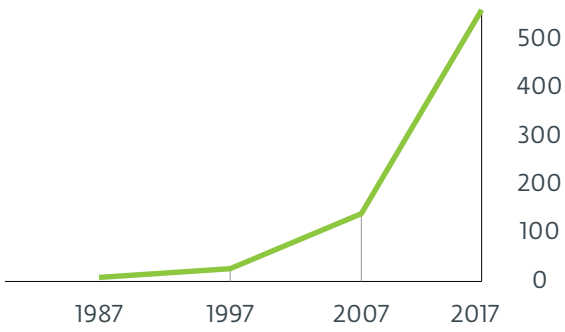
ESET EMPLOYEES

More than one-third of all ESET employees work in research & development



ESET REVENUE

in million **$**



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SOME OF OUR CUSTOMERS

HONDA

protected by ESET since 2011
license prolonged 3 times and expanded 2 times

Canon
Canon Marketing Japan Group

protected by ESET since 2016
more than 14,000 endpoints

Allianz Suisse

protected by ESET since 2016
more than 4,000 mailboxes

T

ISP security partner since 2008
2 million customer base

SOME OF OUR TOP AWARDS

SE Labs AAA APR-JUN 2018 ENTERPRISE ENDPOINT PROTECTION

THE CHANNEL CO. CRN PARTNER PROGRAM GUIDE WINNER 2018

AV comparatives APPROVED Business Security JUL 2018

SC MEDIA RECOMMENDED

"Given the good features for both anti-malware and manageability, and the global reach of customers and support, ESET should be on the short list for consideration in enterprise RFPs for anti-malware solutions."

KuppingerCole Leadership Compass
Enterprise Endpoint Security: Anti-Malware Solutions, 2018

Connection we solve IT

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1.800.800.0014 ■ www.connection.com/ESET

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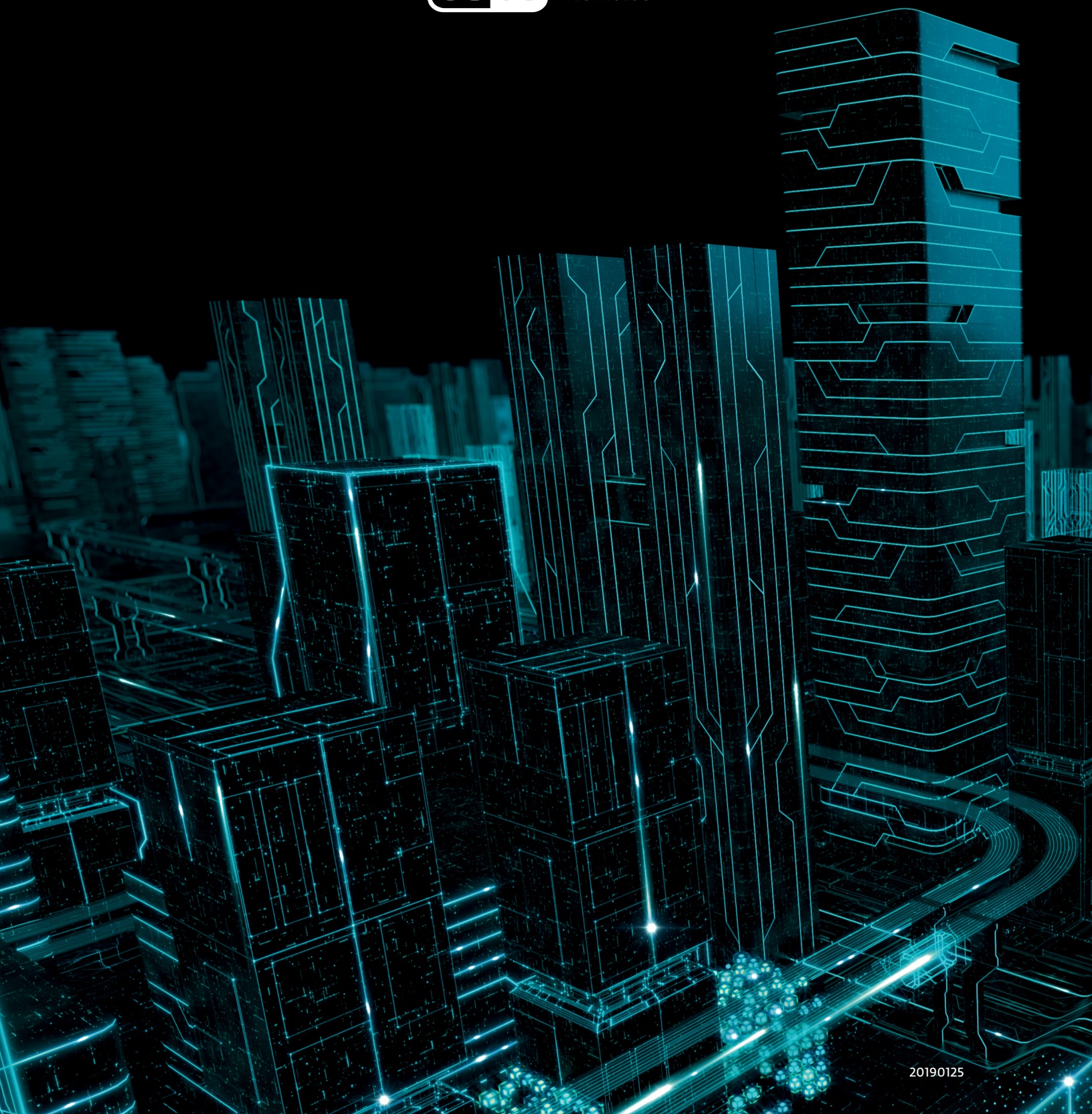

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