

A Day in the life of a file

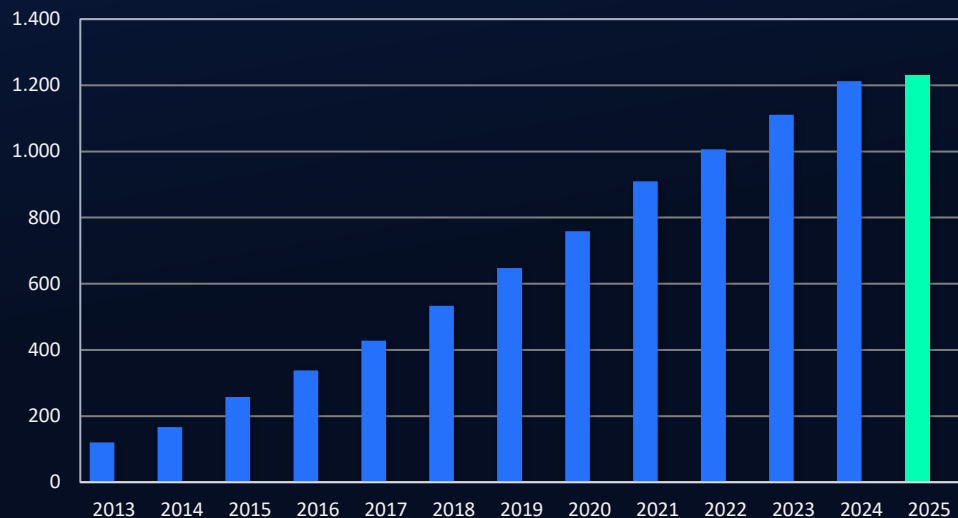
Aktive Abwehr im IT-/OT-Datenfluss

Martin Lüning, Senior Solution Engineer, OPSWAT
Kolja Oswald, Regional Sales Manager, OPSWAT

September 2025, Congress Park Hanau

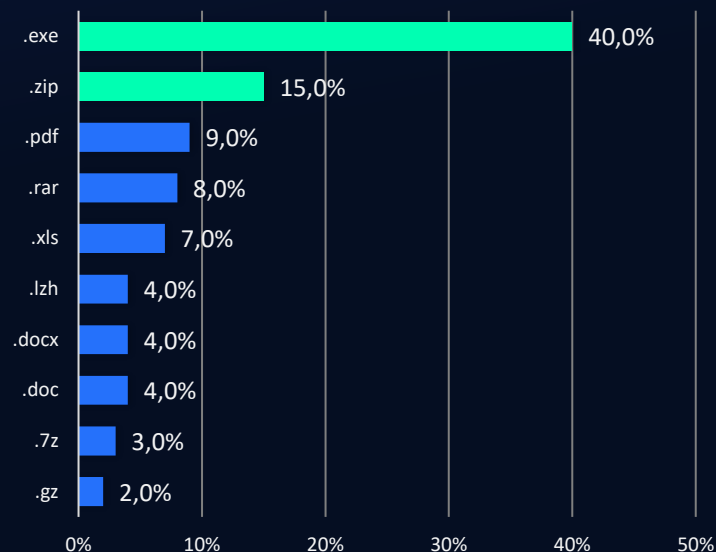
The Rise of File-Borne Malware

Total malware in 2025



Last updated: Feb 2025.
Source: AV-Test Institute & HP Wolf Security

Malicious artifacts by file types 2025



CHALLENGES

Data & Files in Critical Environments

Why?

How?

What?

72 %

Rise in **cyber risks**
in 2024

42 %

of **organizations experienced**
social engineering attacks

\$4.88 M

Average **cost of** a
data breach

Devices are not Designed to Scan Files

CHALLENGES

Data & Files in Critical Environments

Why?

How?

What?

File Transfer / Email



Remote Access



Removable Media



Data Replication / Sync



3rd Party Laptops
(Vendor / Contractor)



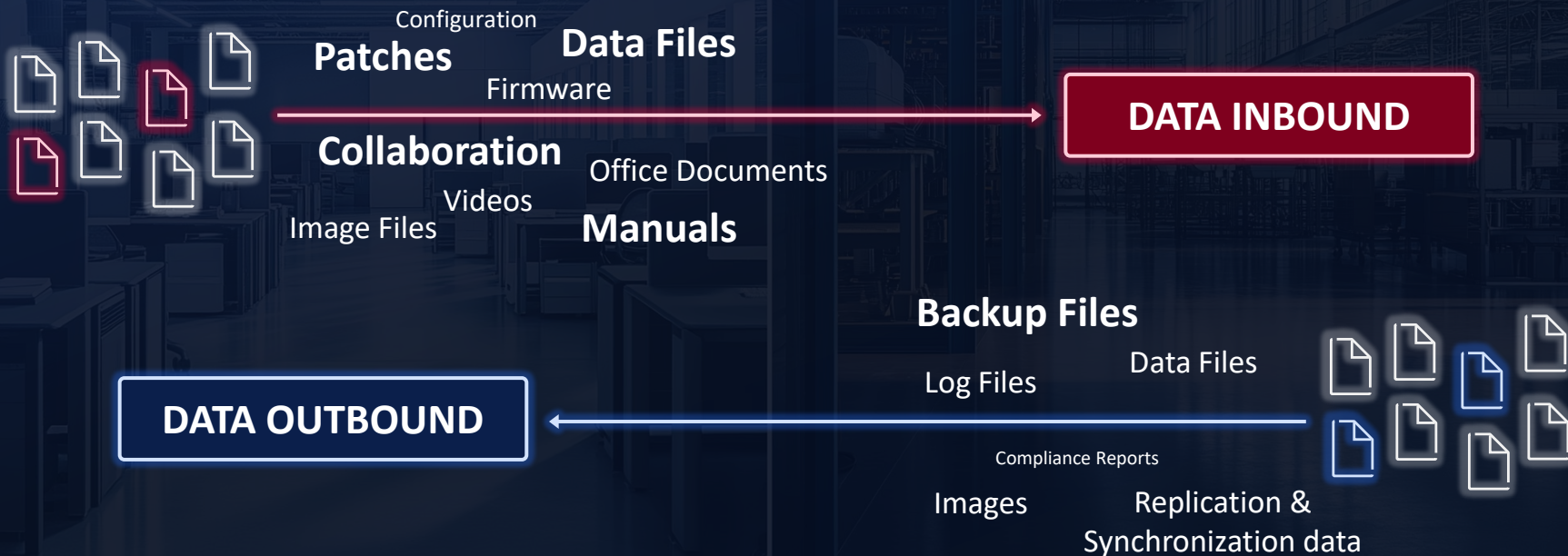
CHALLENGES

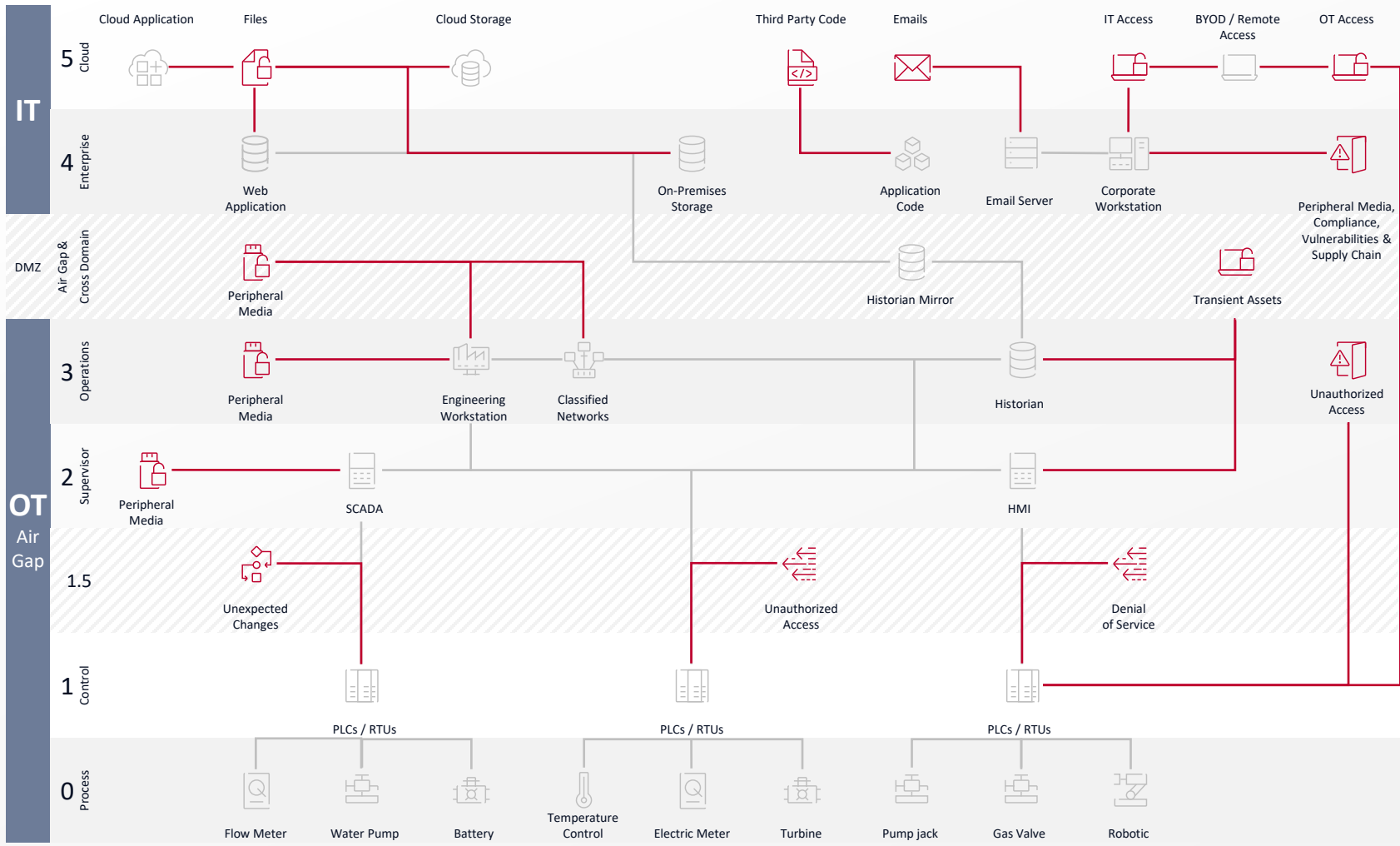
Data & Files in Critical Environments

Why?

How?

What?

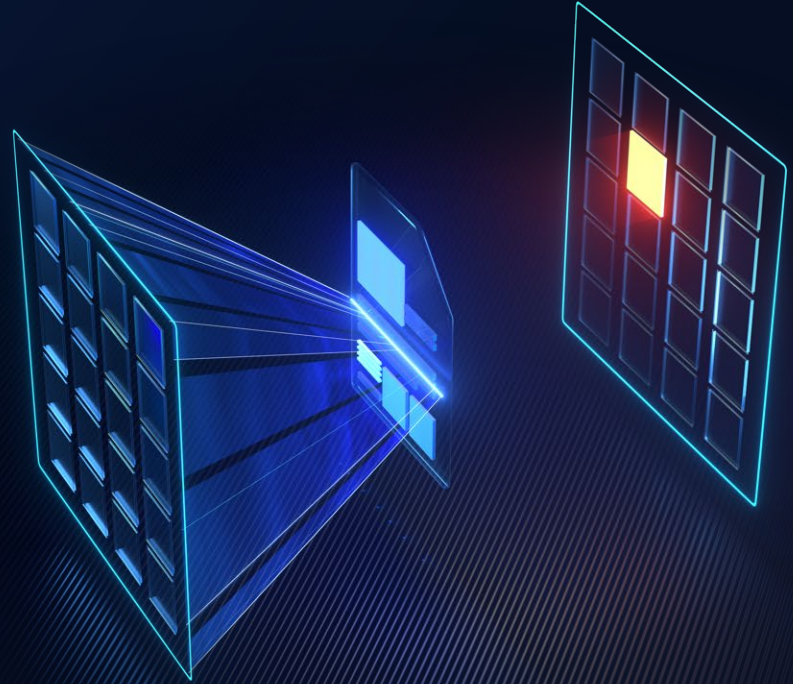




OPSWAT.

Multiscanning

Detect nearly 100% of threats
using 30+ antivirus engines
simultaneously.

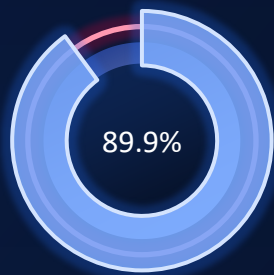


Multiscanning

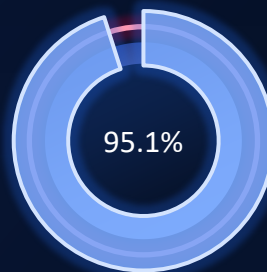
With more antivirus engines you get more coverage and a smaller risk window.



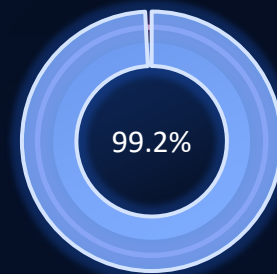
Single Engine



8 Engines



16 Engines



Max Engines

OPSWAT.

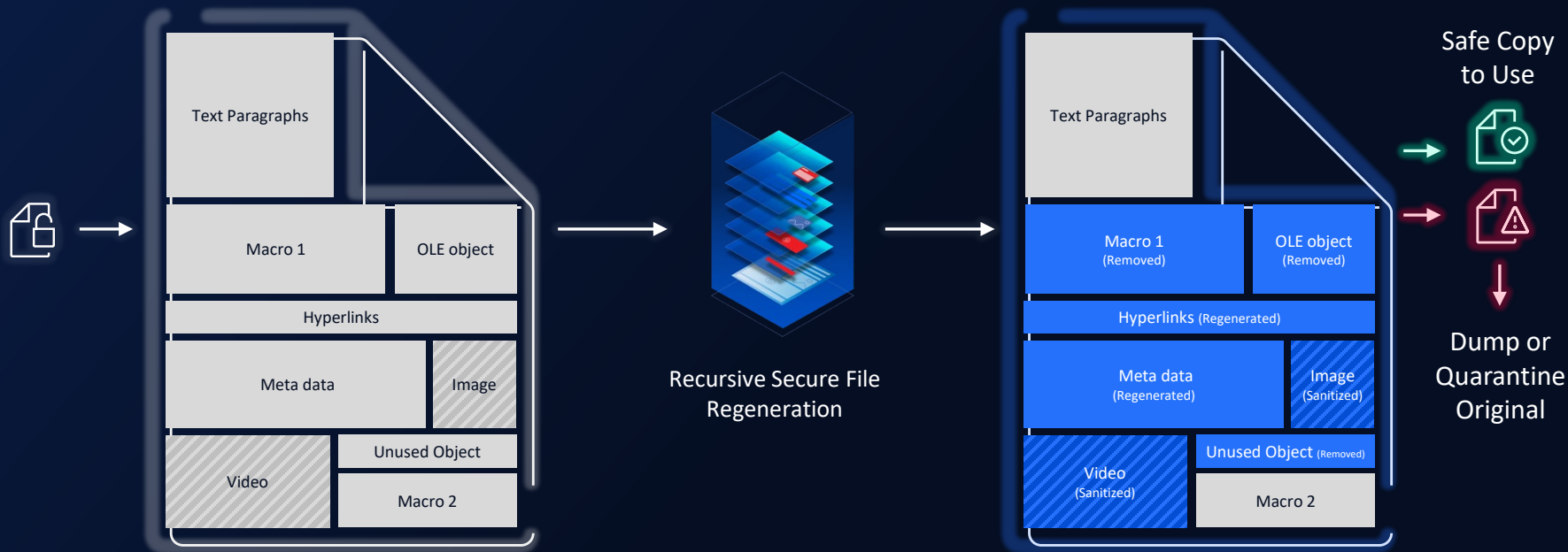
Deep CDR

Sanitize files to prevent known and unknown malware and zero-day attacks.



Deep CDR

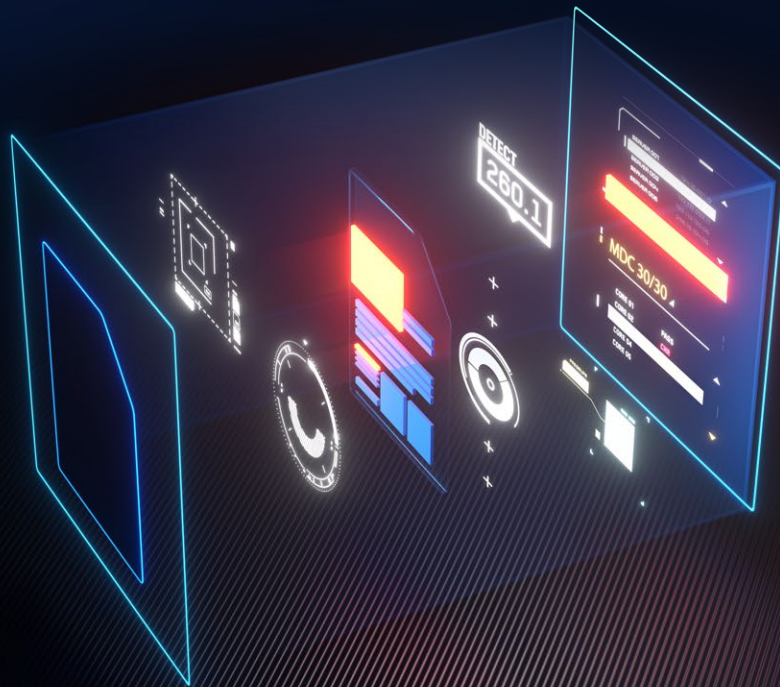
Sanitize, block and remove file objects and regenerate a safe copy.



OPSWAT.

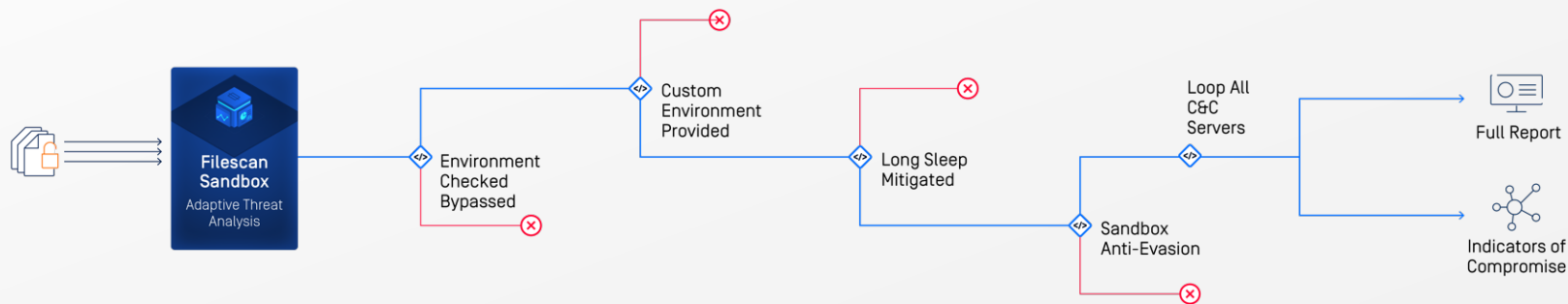
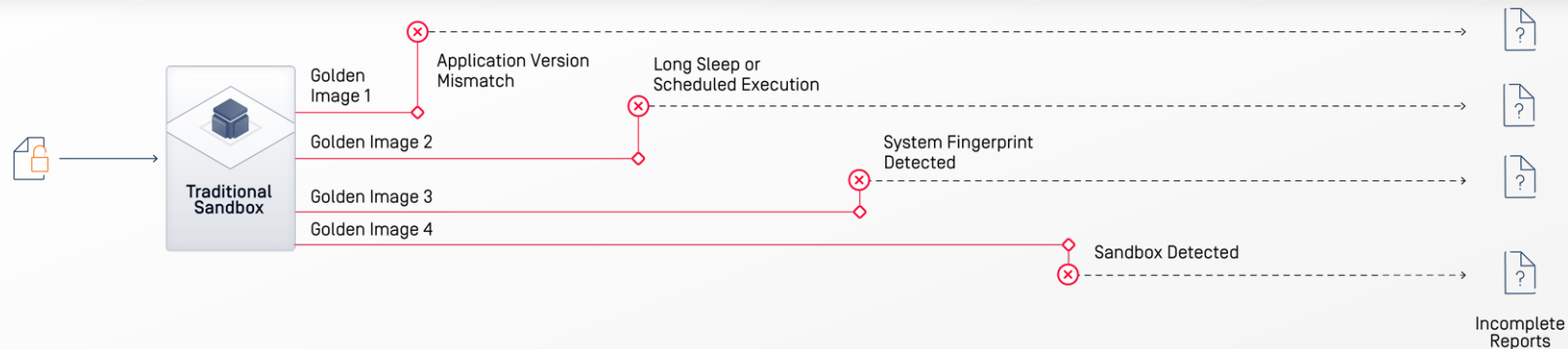
Adaptive Sandbox

Adaptive threat analysis
technology enables zero-day
malware detection and extracts
more indicators of compromise.

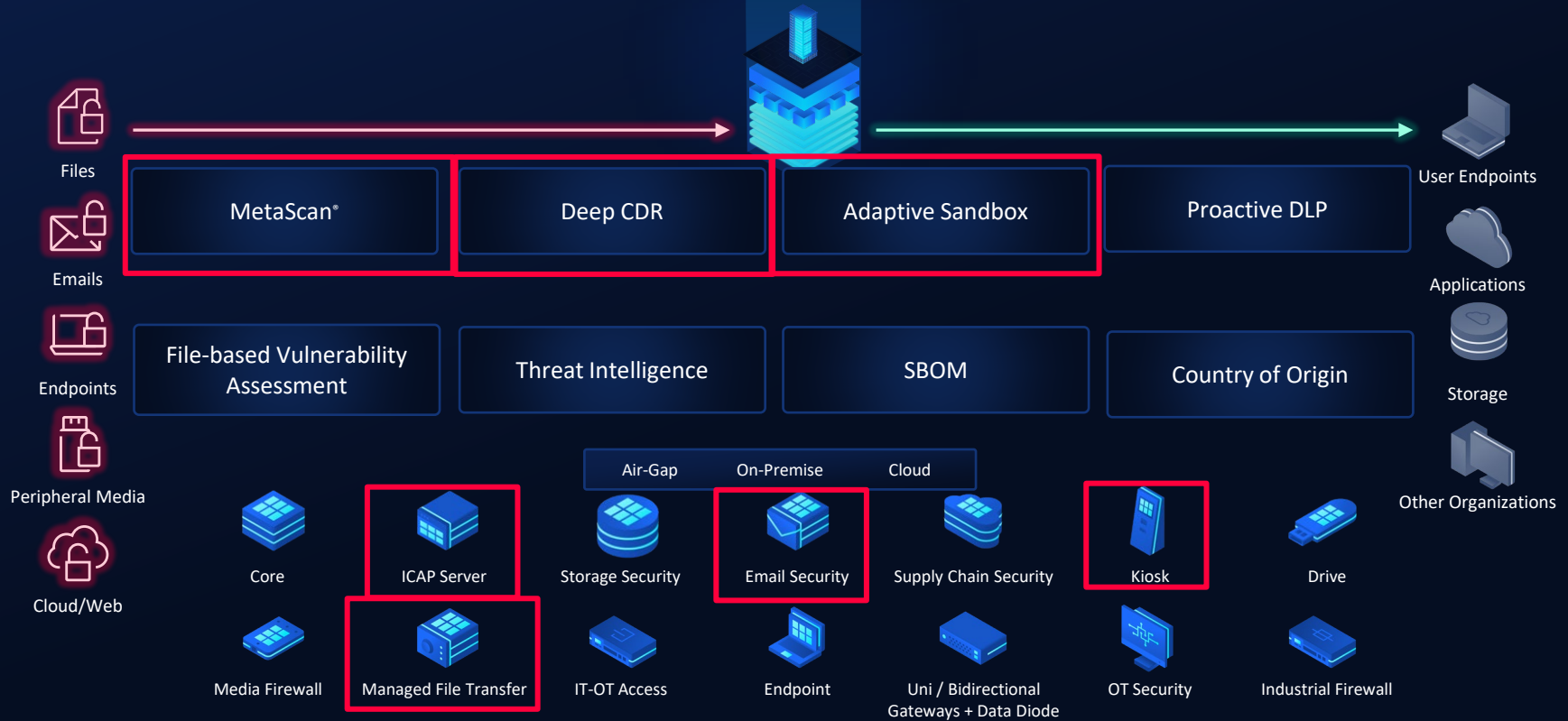


Adaptive Sandbox

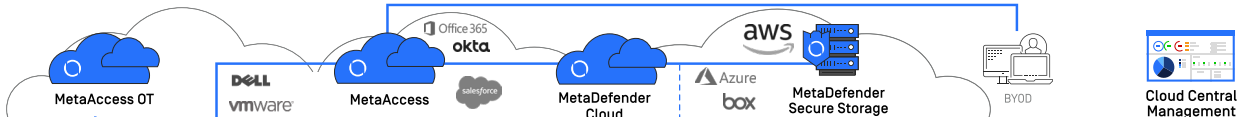
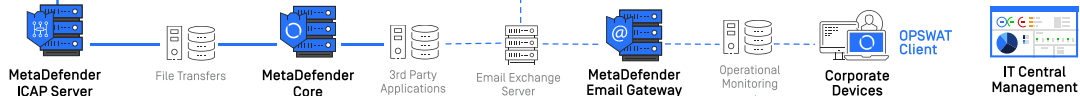
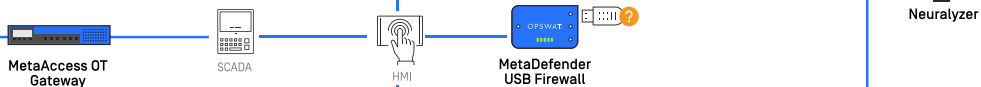
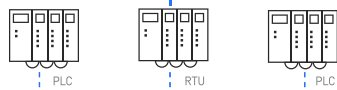
How our emulation-based sandbox works.



MetaDefender Platform

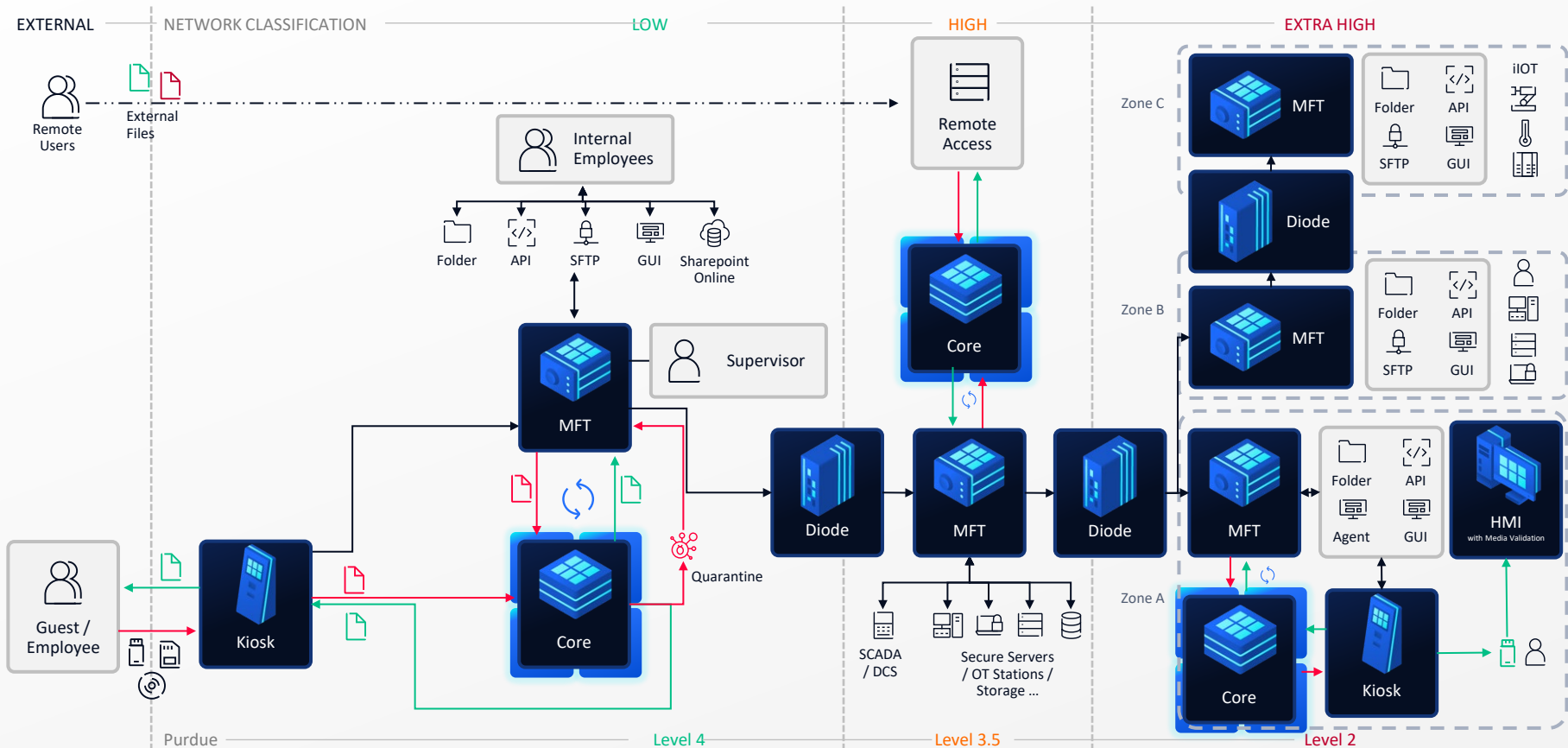


IT

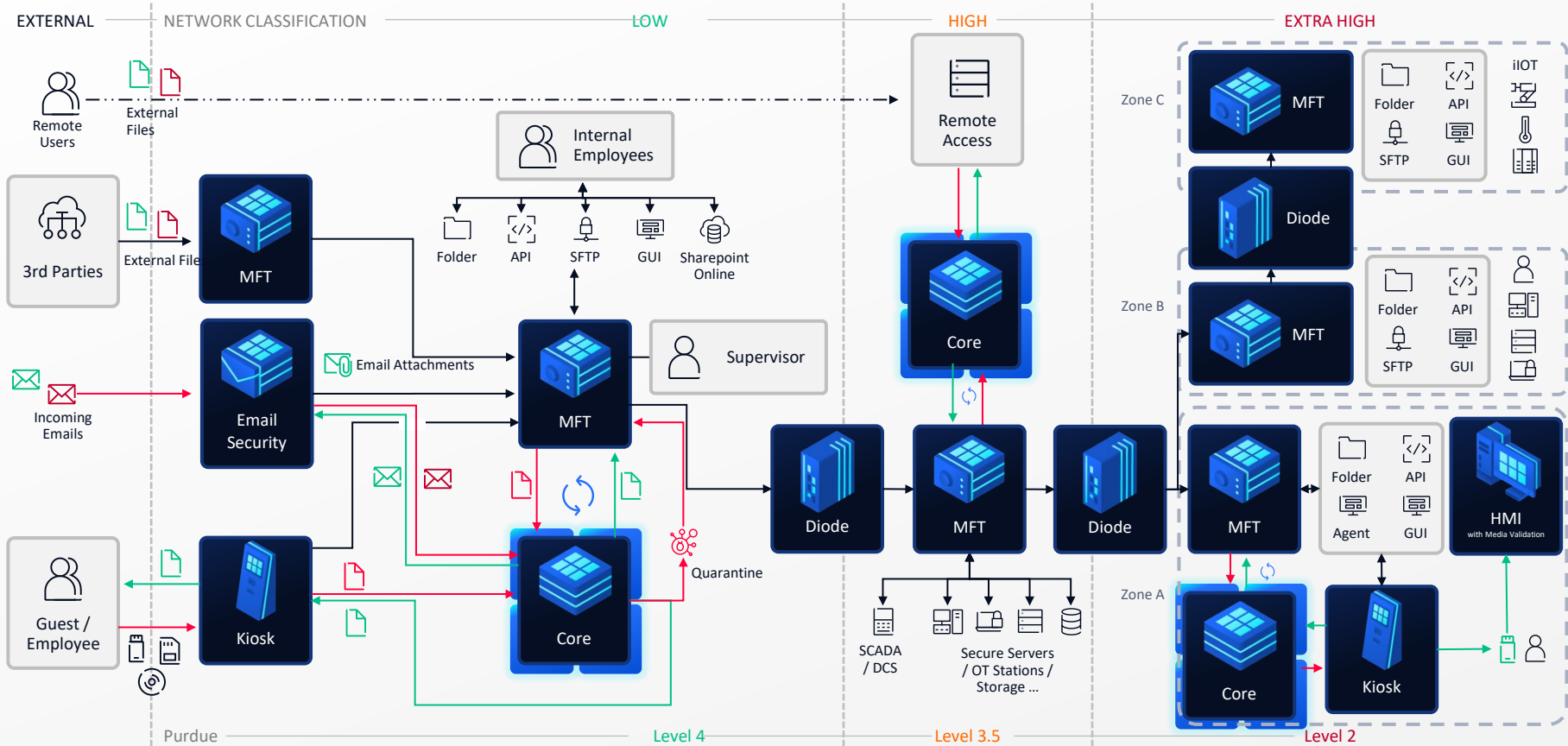
LEVEL 5
Cloud Network**LEVEL 4**
Enterprise Network**LEVEL 3.5**
IT/OT DMZ**LEVEL 3**
Operations**LEVEL 2**
Process Network**LEVEL 1.5**
IT/ICS DMZ**LEVEL 1**
Control Network**LEVEL 0**
Field Network

OT

A Day in the Life of a Data File



A Day in the Life of a Data File



Swiss Reinsurance Company Ltd

One of the world's leading providers of reinsurance, insurance and other forms of insurance-based risk transfer.

Profile

Company: Swiss Reinsurance Company Ltd

Industry: Insurance

Products Used: MetaDefender ICAP

““The majority of documents we handle contain client personal data. These must all be scanned before reaching the internal network to protect our web applications from malicious file uploads. OPSWAT provides a high quality, easy-to-use, effective solution to secure this traffic.”

Raymond Bucher
Director/Cloud Architect

[Explore the Full Story at OPSWAT.com](https://www.opswat.com)

Challenge

- Risk of infected files entering secure network via web applications
- Compatible with microservices architecture: deployable in Azure/Kubernetes and has native support for NGINX
- Meet regulatory requirements, cost-effective and rapidly scalable

Solution

MetaDefender ICAP Server on top of their Azure Container Instances (ACI), integrated with an API Gateway

Outcomes

- Scalable web application security
- Enterprise-class performance
- Superior service

OPSWAT.

Your team, how can we help?



Kolja Oswald
Regional Sales
Manager



Martin Lünig
Senior Solution
Engineer



Controlware
Security Day



**Danke für Ihre Aufmerksamkeit.
Wir freuen uns über Ihr Feedback!**

**Bitte geben Sie den ausgefüllten Bogen am Empfang ab und
erhalten Sie als Dankeschön ein kleines Präsent.**