

IT-Security Roadshow 2026

controlware

OPSWAT.

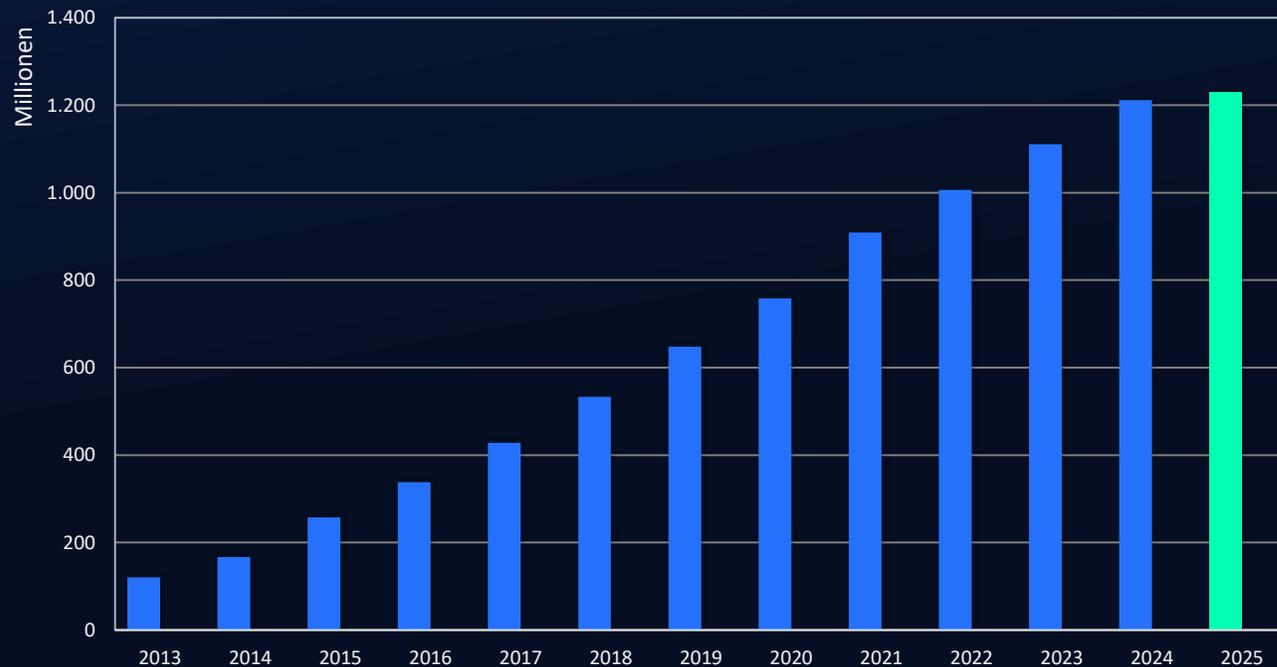
A Day in the Life of a File – Aktive Abwehr im IT-/OT-Datenfluss

Petar Duic, Regional Sales Manager, Opswat

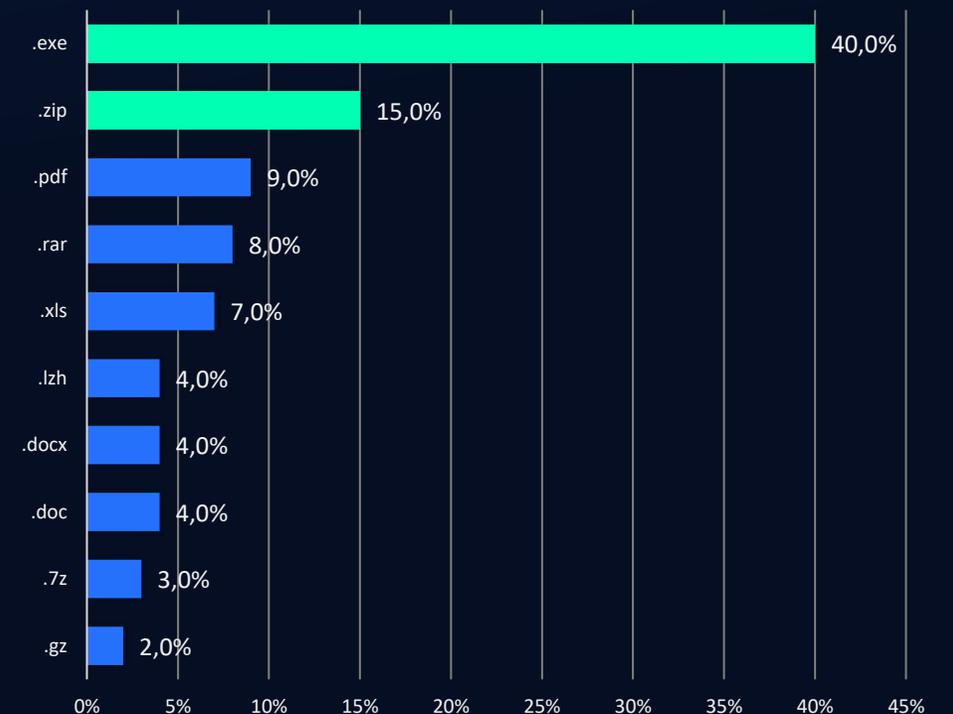
München, 3. März 2026

The Rise of File-Borne Malware

Total malware in 2025



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)



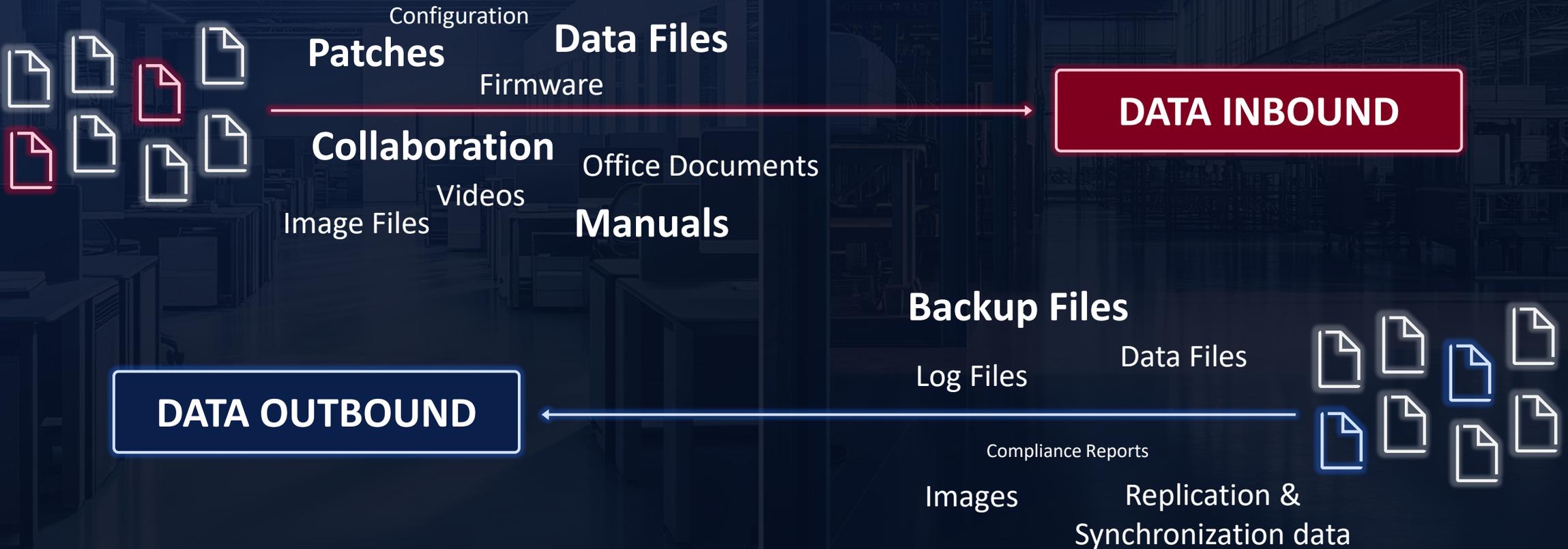
CHALLENGES

Data & Files in Critical Environments

Why?

How?

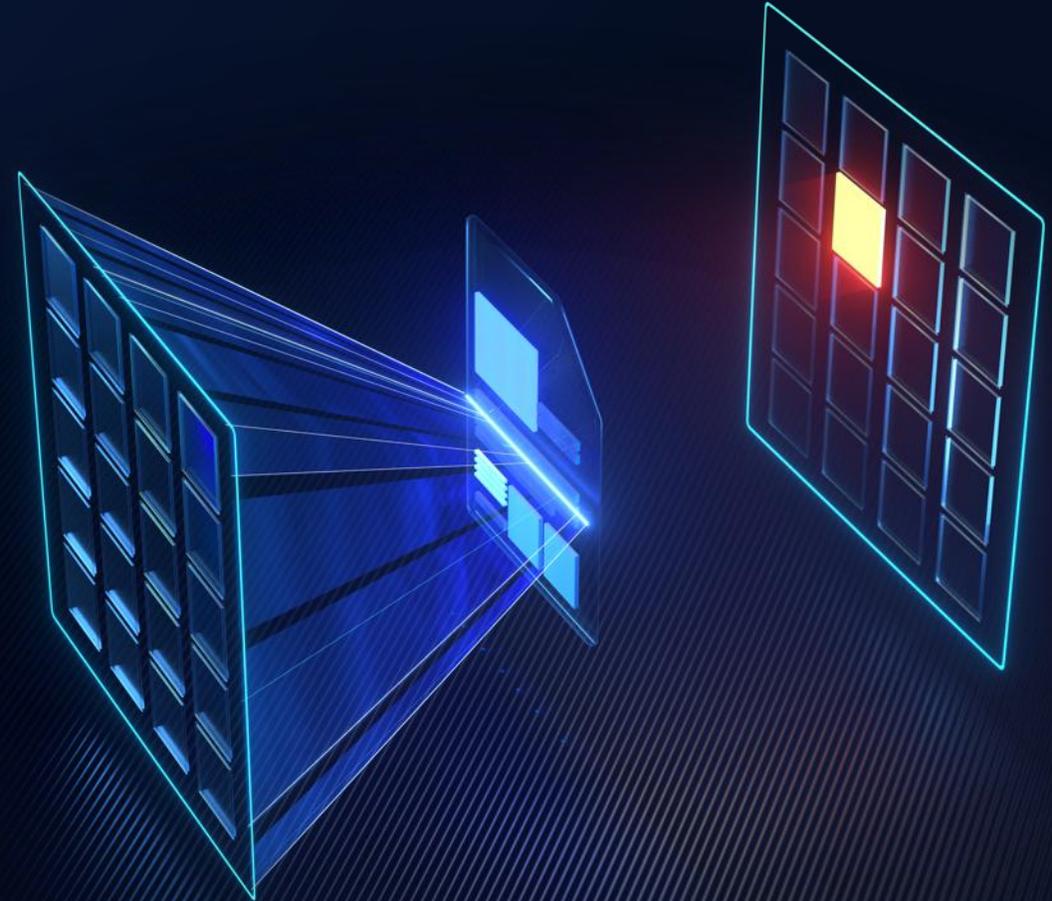
What?



OPSWAT.

Multiscanning

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



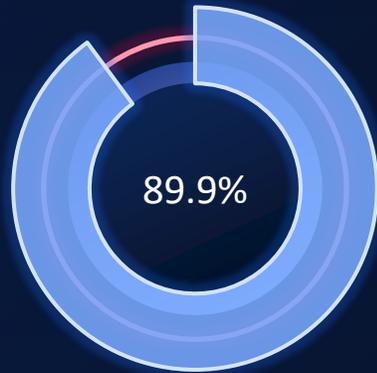
MALWARE PREVENTION

Multiscanning

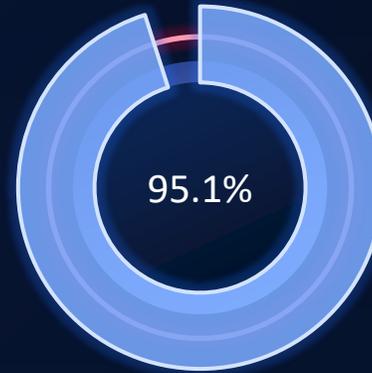
With more antivirus engines you get more coverage and a smaller risk window.



Single Engine



8 Engines



16 Engines



Max Engines

Why Multiscanning

- ✓ Different AV vendors will be the first to discover new malware (polymorphic & non-polymorphic)
- ✓ Some AV vendors may take days, weeks, months, or even years to add detection
- ✓ AV Vendors use proprietary heuristic algorithms
- ✓ Different algorithms have their own strengths and weaknesses
- ✓ Proactive defense

×

sample_metascan.html 🔗

Hypertext Markup Language - 108.9 KB

Infected
Other blocked reasons ...

🔗 File process
👤 LOCAL/admin
📅 Jan 14, 2024 at 11:52:04 AM
🔄 Jan 14, 2024 at 11:52:04 AM
🕒 1,707 ms

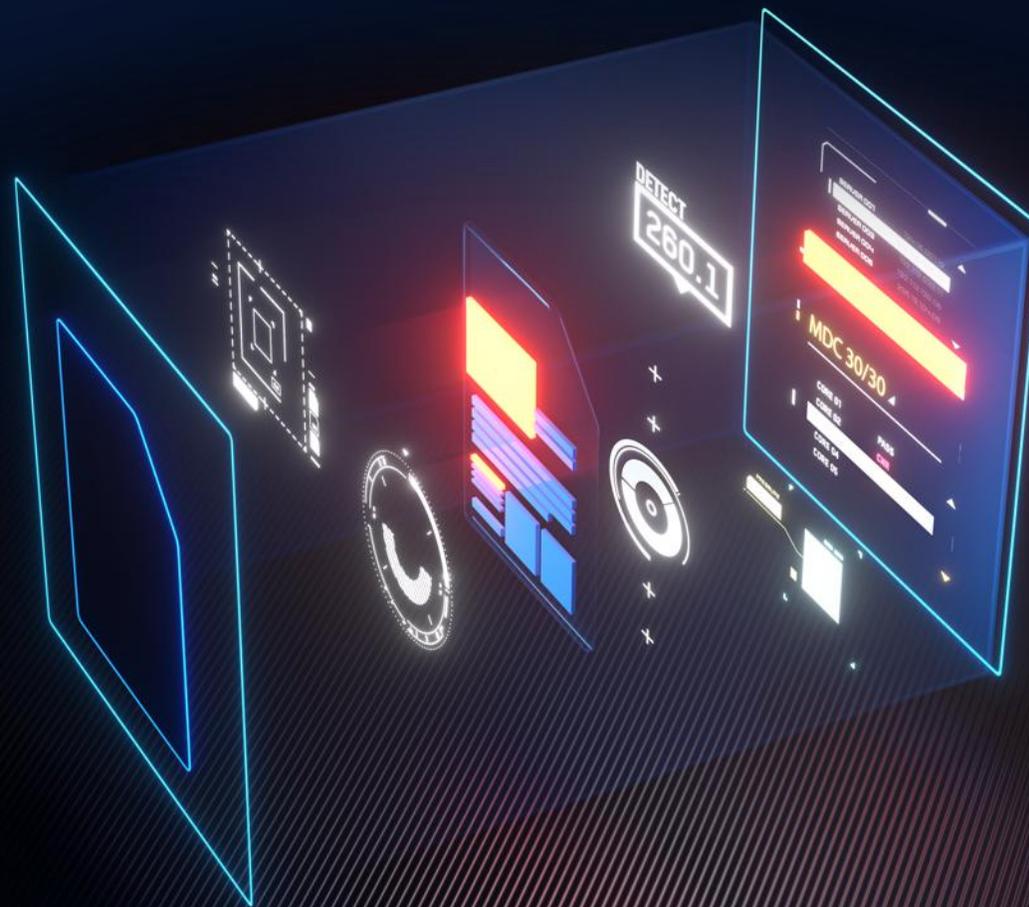
← METASCAN™
DEEP CDR
PROACTIVE DLP
VULNERABILITY ASSESSMENT
FILE TYPE VERIFICATION
SANDBOX
SBOM
REPUTATION

Engine	Result	Definition Date	Scan Time
AV Engine 1	✓ No Threat Detected	2024-01-08 [6 days ago]	320 ms
AV Engine 2	✗ Trojan[Infect]/JS.Agent	2024-01-07 [7 days ago]	35 ms
AV Engine 3	✗ JS/Agent.G1	2024-01-07 [7 days ago]	49 ms
AV Engine 4	✓ No Threat Detected	2024-01-07 [7 days ago]	243 ms
AV Engine 5	✓ No Threat Detected	2024-01-06 [8 days ago]	257 ms
AV Engine 6	✗ TrojWare.JS.Agent.NKB	2024-01-07 [7 days ago]	19 ms
AV Engine 7	✓ No Threat Detected	2024-01-07 [7 days ago]	238 ms
AV Engine 8	✓ No Threat Detected	2024-01-07 [7 days ago]	350 ms
AV Engine 9	✗ Trojan.JS.Agent	2024-01-07 [7 days ago]	183 ms
AV Engine 10	✗ Exploit [04c55c361]	2024-01-08 [6 days ago]	28 ms

OPSWAT.

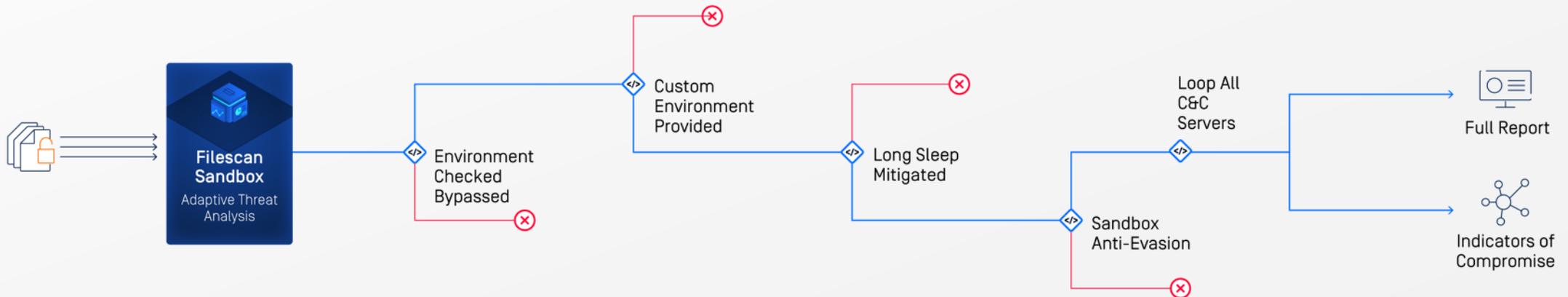
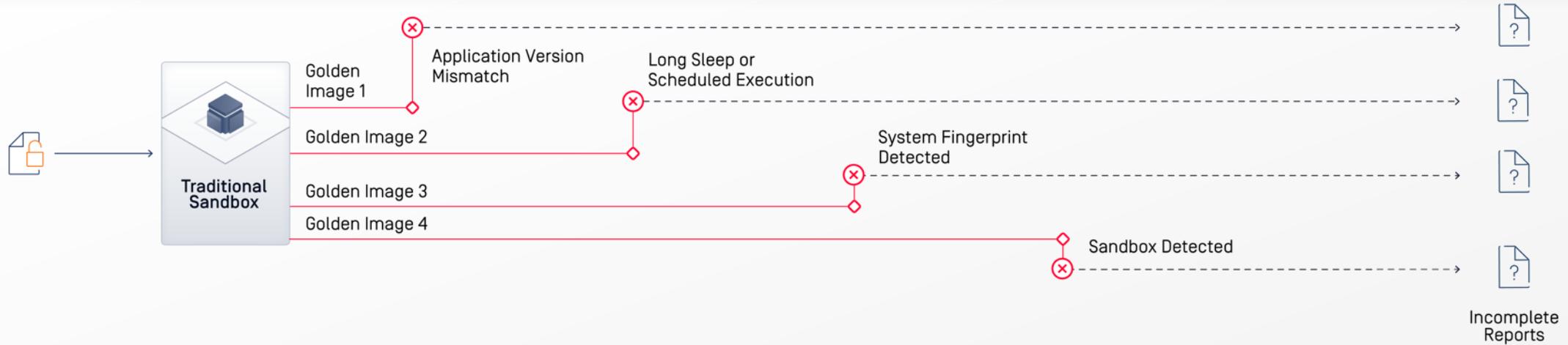
Adaptive Sandbox

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



Adaptive Sandbox

How our emulation-based sandbox works.



OPSWAT.

Deep CDR

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



DEEP CDR

What Deep CDR Does

✔ Identify & Scan

Verify file type and identify all active embedded content in file



Productivity Files,
Archives, HTMLs

✔ Regenerate & Convert

Disarm all the potentially malicious content and reconstruct the file with safe components



Links, Media, Objects

✔ Rebuild & Use

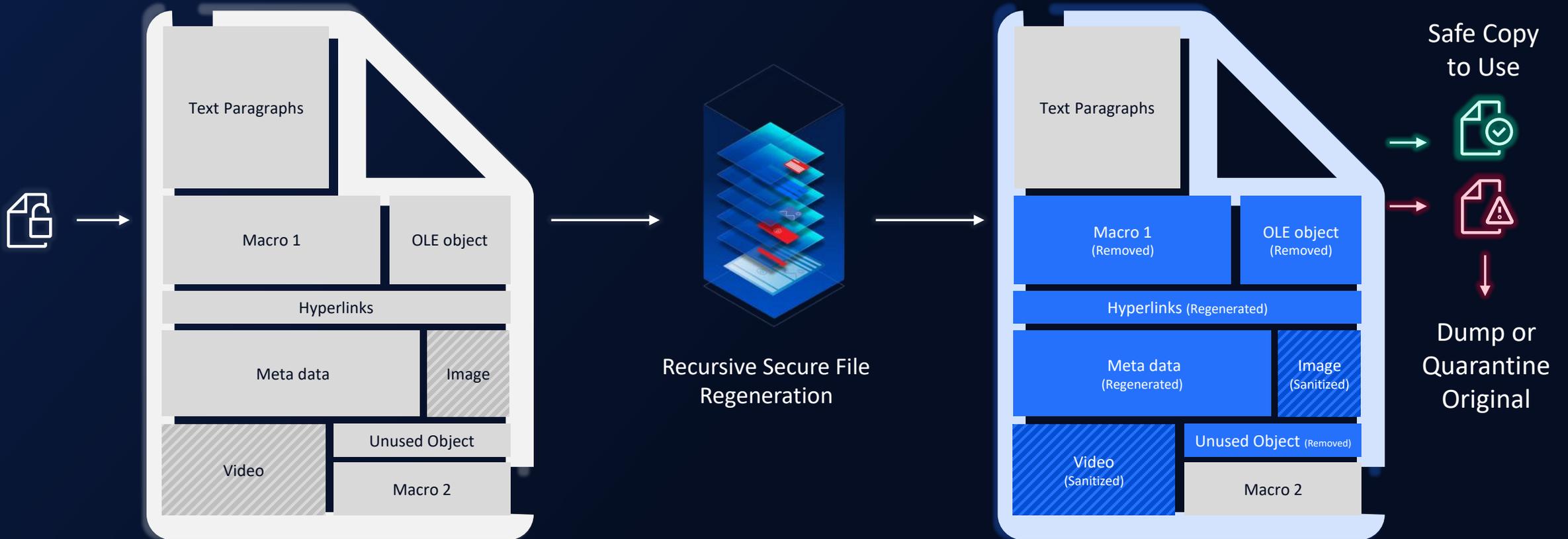
Generate a threat-free file with full functionality and quarantine the original file



Clean Files
Usable Elements

Deep CDR

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



File-Based Vulnerability Assessment

Detect Application Vulnerabilities Before They Are Installed

- Check certain types of software for known vulnerabilities before installation
- Scan systems for known vulnerabilities when devices are at rest
- Quickly examine running applications and their loaded libraries for vulnerabilities

2.5k

Supported Vendors

30k+

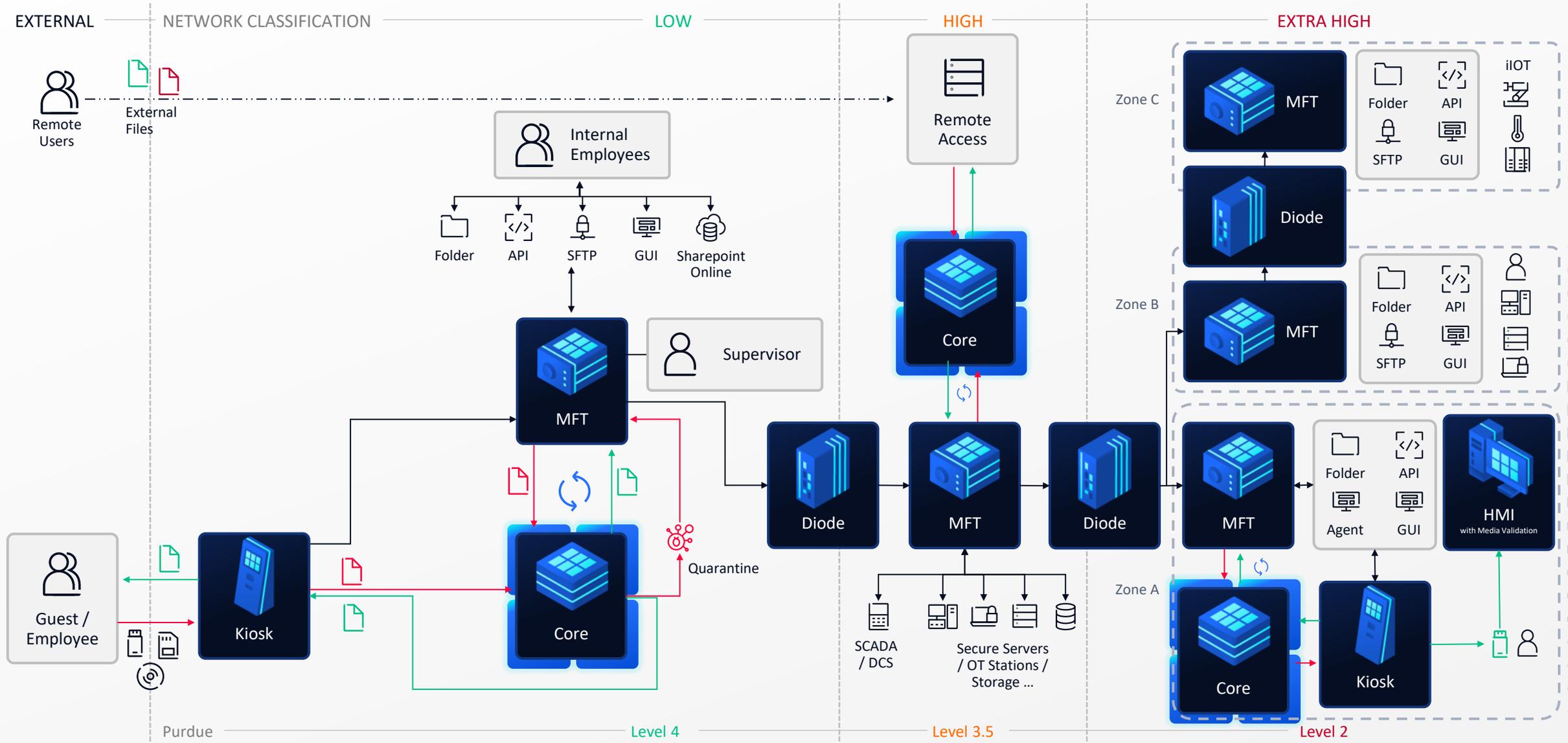
Associated CVEs With
Severity Information

3M

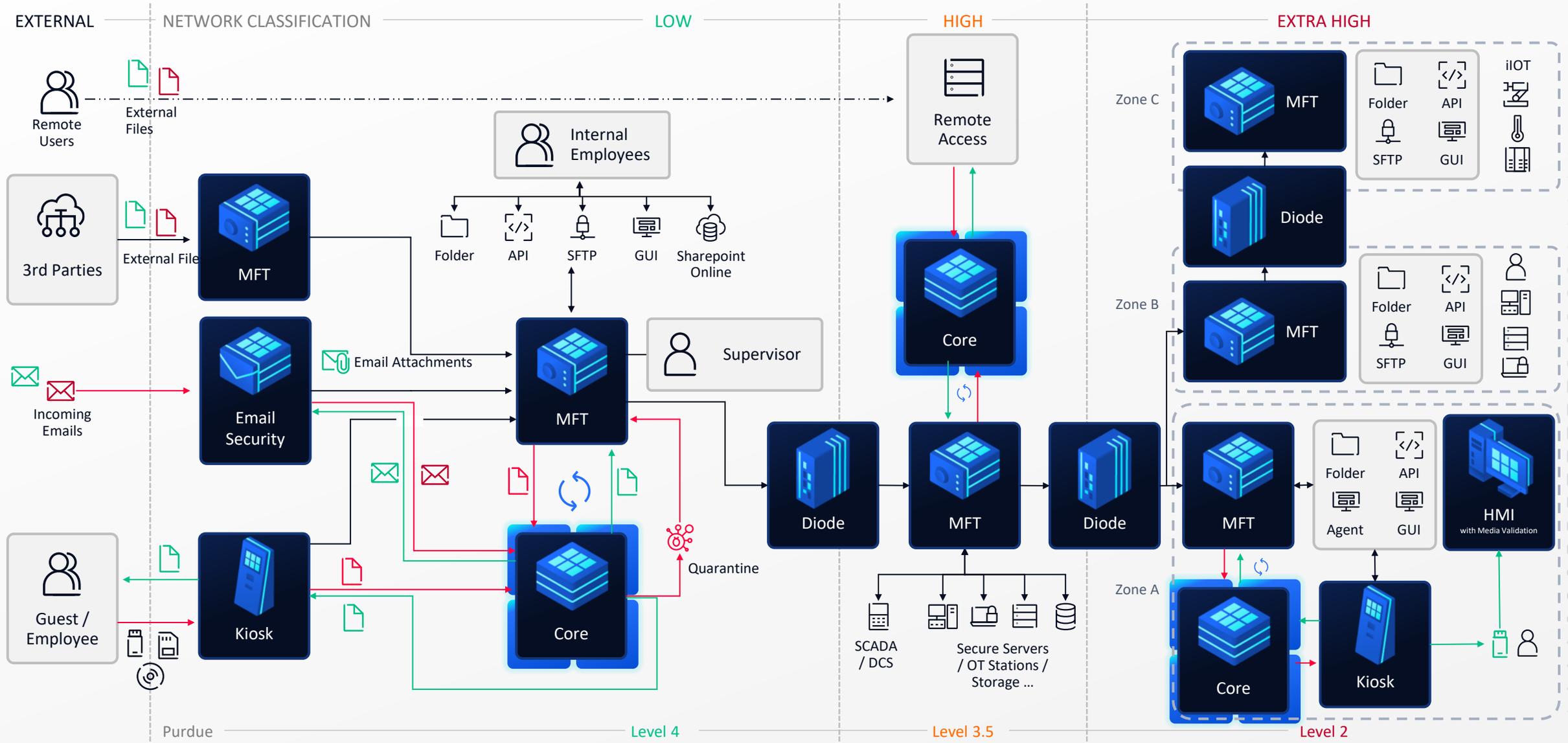
Identified Active
Vulnerable
Hashes



A Day in the Life of a Data File



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Danke für Ihre Aufmerksamkeit.