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Vielfältige Angriffsvektoren benötigen interagierende und automatisierte Lösungen

Jens Spielberg

Agenda

- Warum Security?!
- Zahlen, Daten, Fakten
- Heutige Herausforderungen
- Interagierende und automatisierte Lösungen

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Warum Security?!

Warum Security?!

„Es gibt solche Unternehmen, die schon gehackt wurden, und solche, die es noch werden.“

https://taz.de/FBI-haelt-Cyber-Kriminalitaet-fuer-groesste-Gefahr/!5099329/

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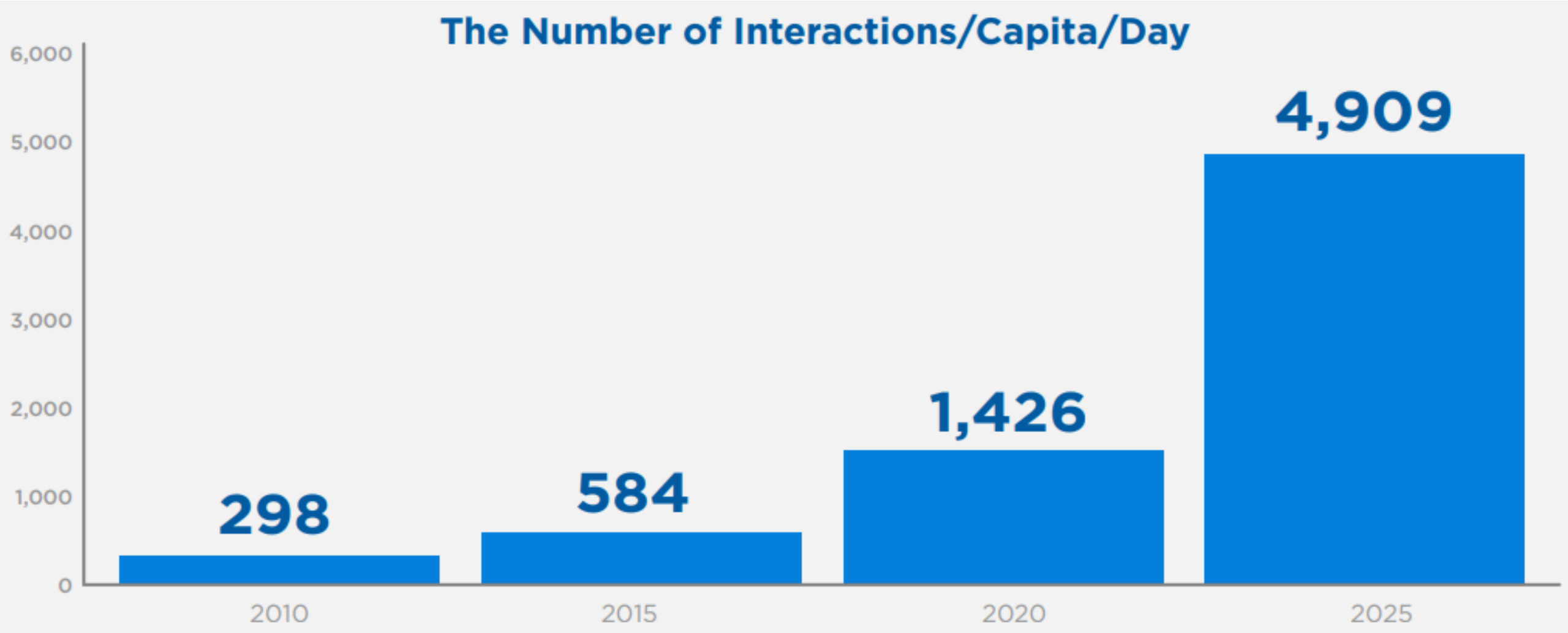
The Digitization of the world



Quelle: IDC Whitepaper 2018

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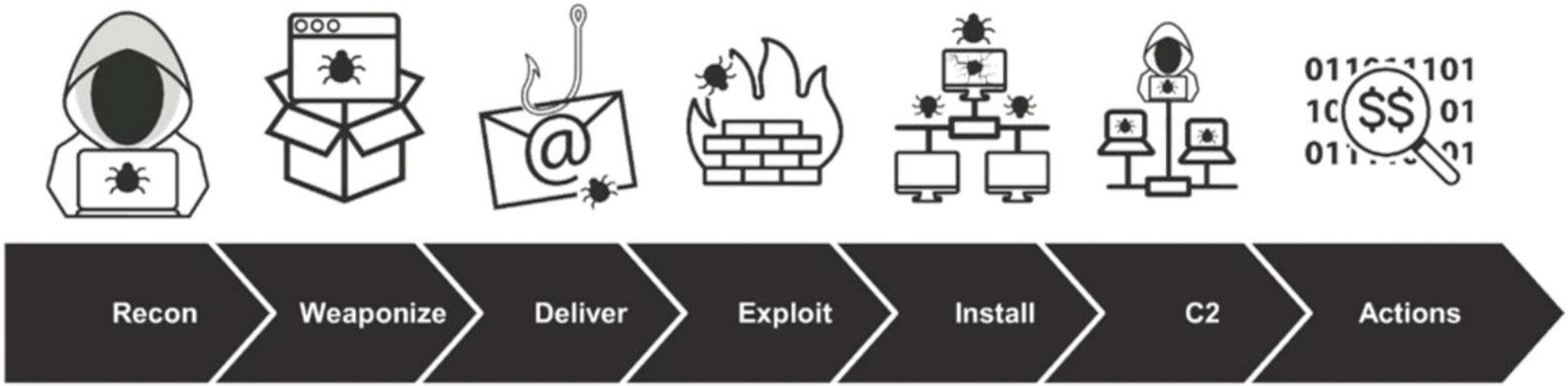
Zahlen, Daten, Fakten

Phasen eines Angriffs



Quelle: https://www.techtag.de/it-und-hightech/it-security/cyber-kill-chain-it-infrastruktur/

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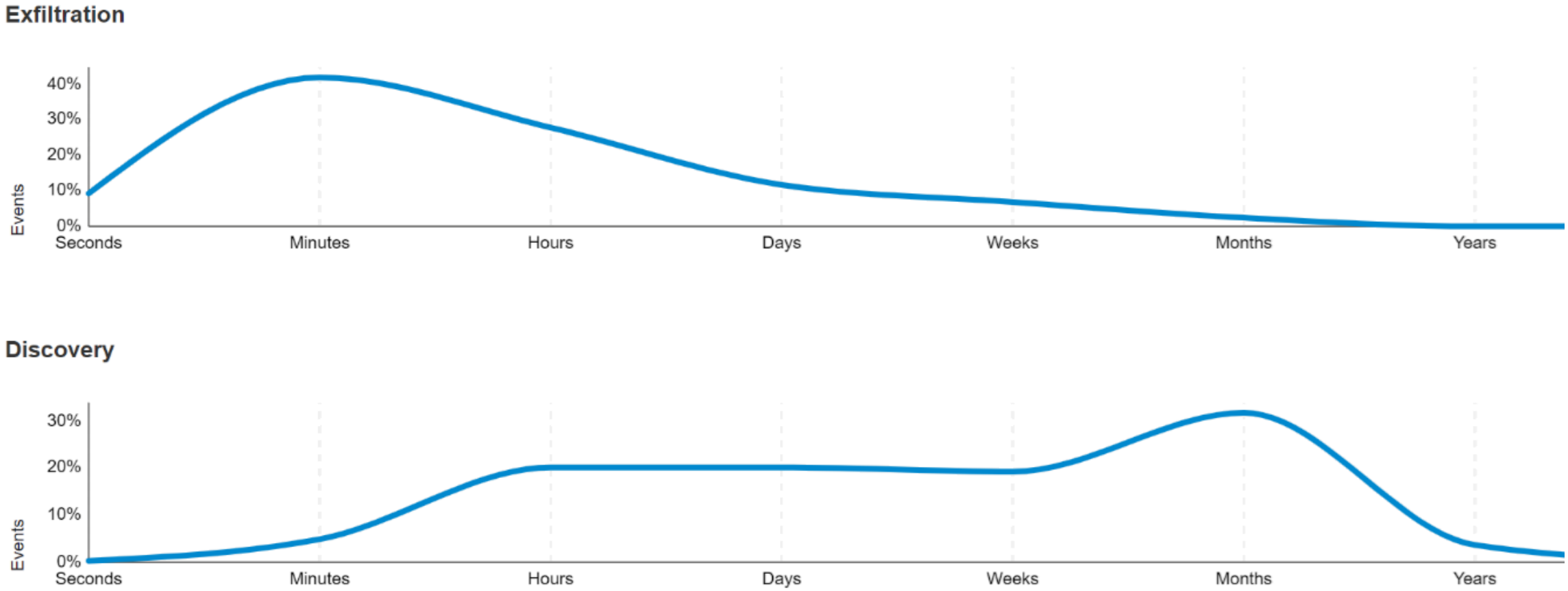
Wann werden Angriffe entdeckt?



Quelle: Verizon Data Breach Investigation Report 2018

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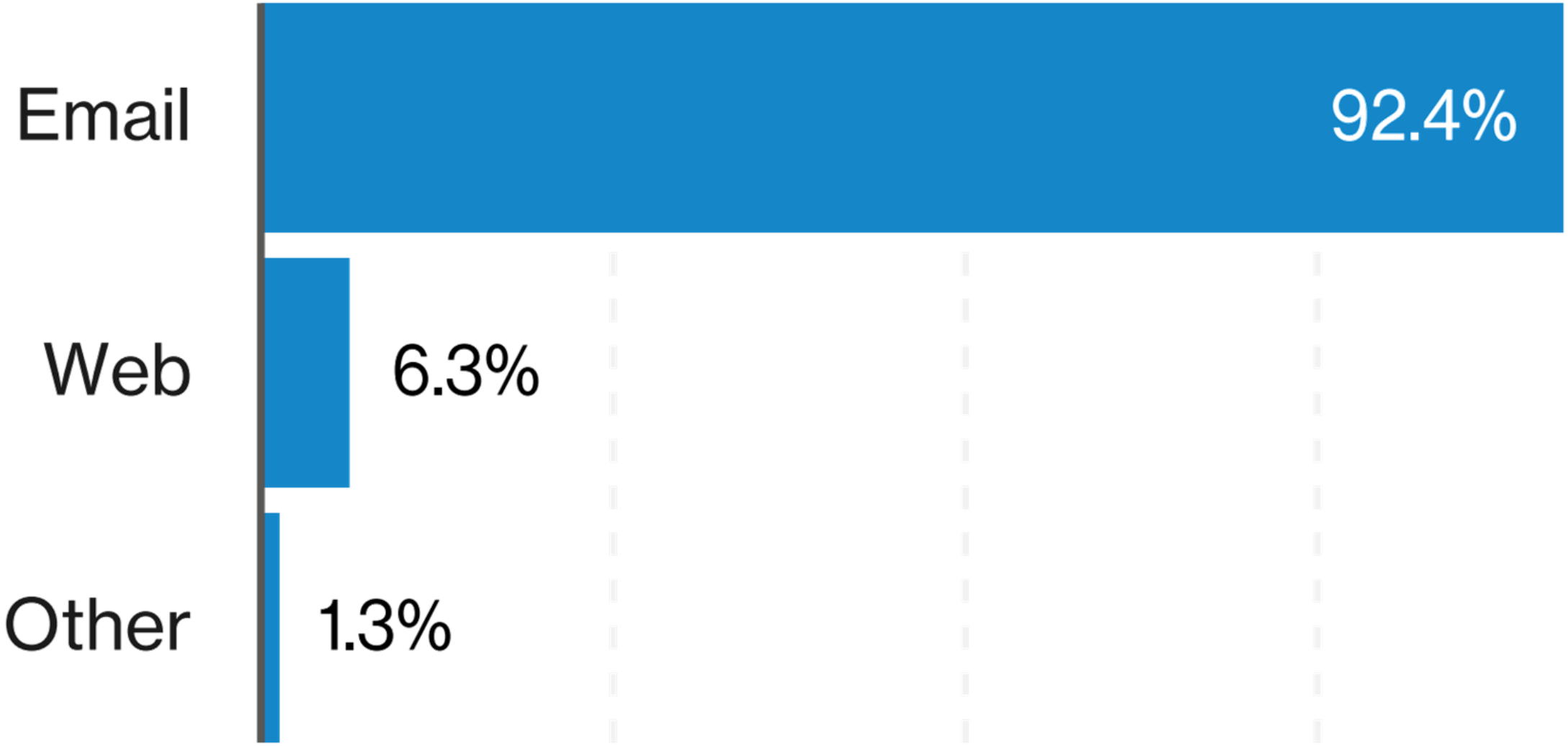
Infektionswege



Quelle: Verizon Data Breach Investigation Report 2018

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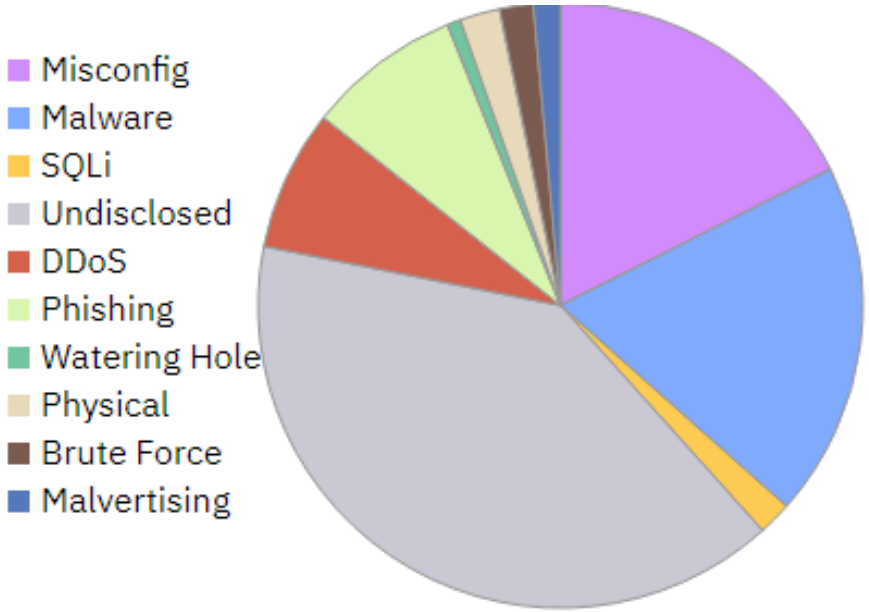
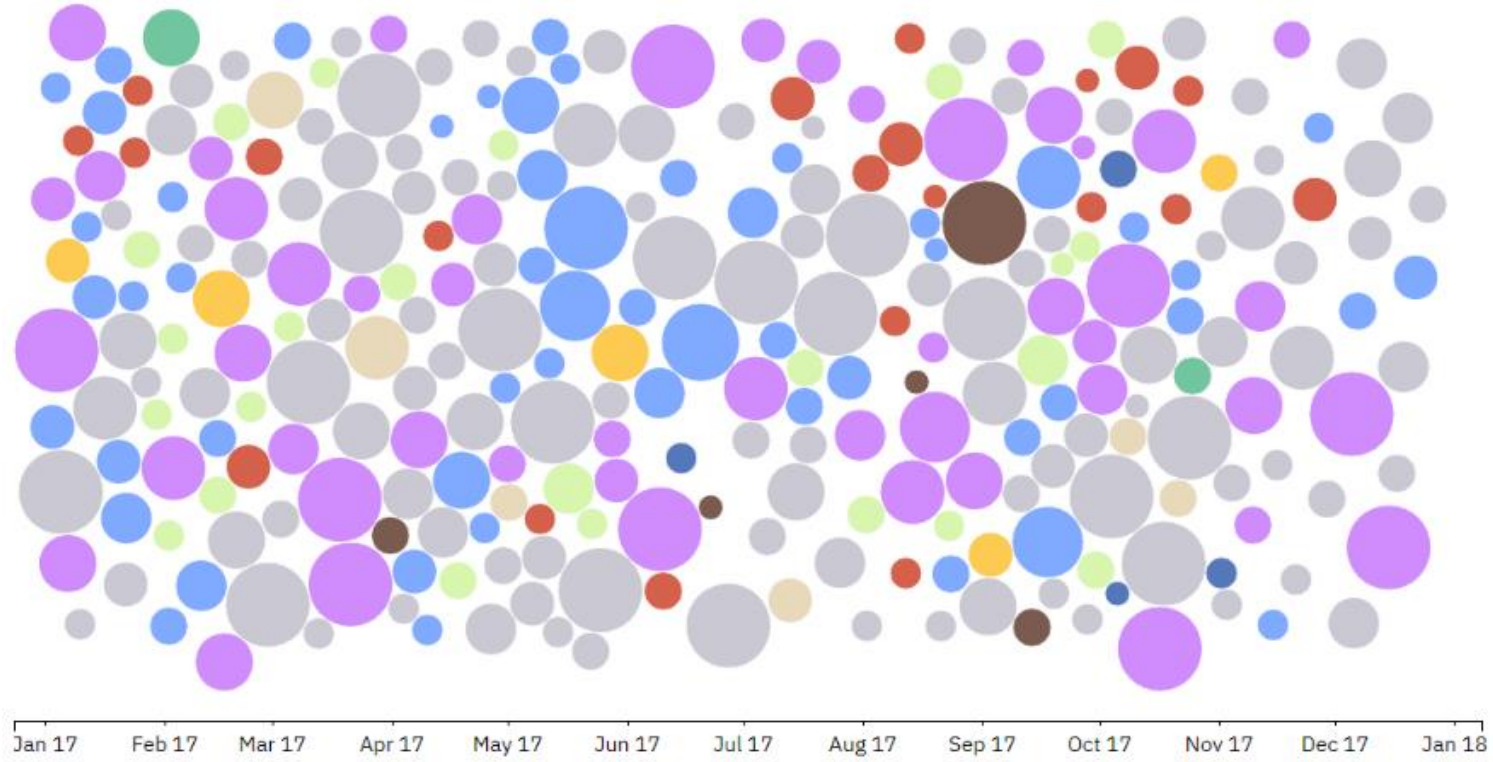
Infektionsarten





Quelle: https://www.ibm.com/security/resources/xforce/xfisi/

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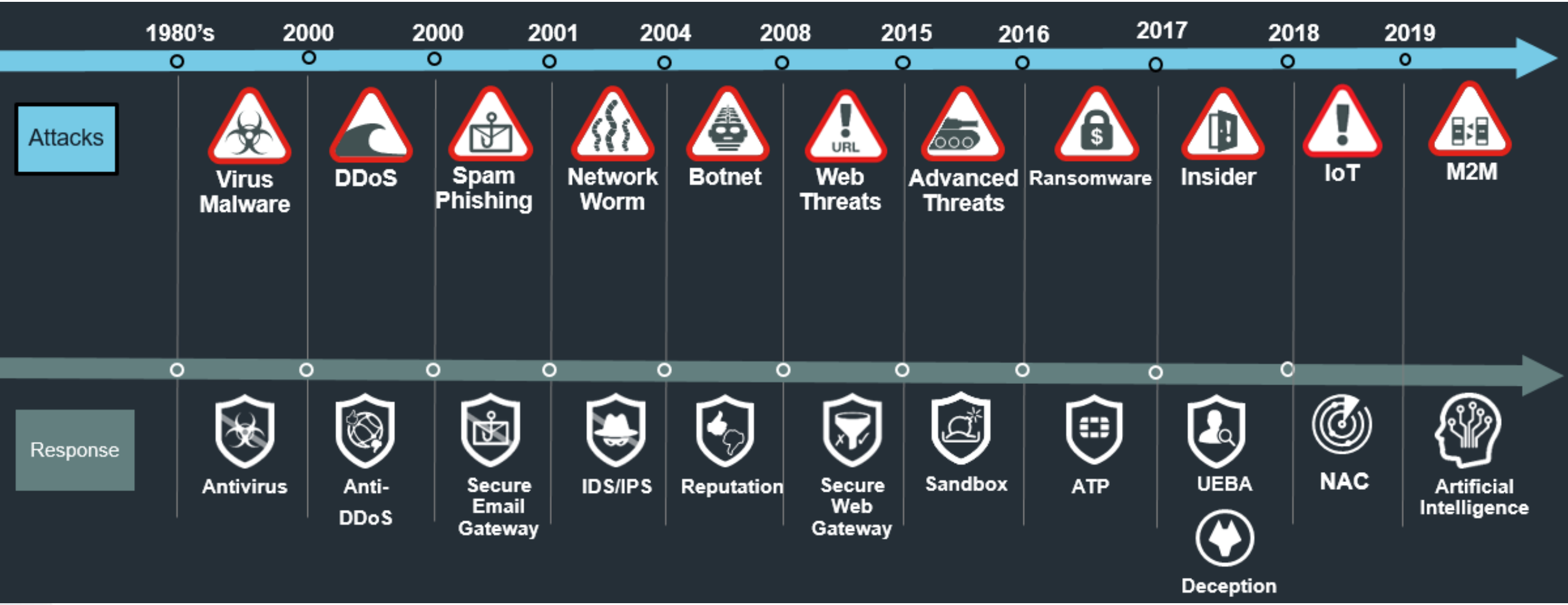
Heutige Herausforderungen

Entwicklung der Bedrohungslage



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Facebook is looking down the barrel of a $2.2 billion fine for storing millions of passwords insecurely

British Airways faces $230 million fine. It would be a record under Europe's tough data privacy law

UK proposes another huge data fine. This time, Marriott is the target

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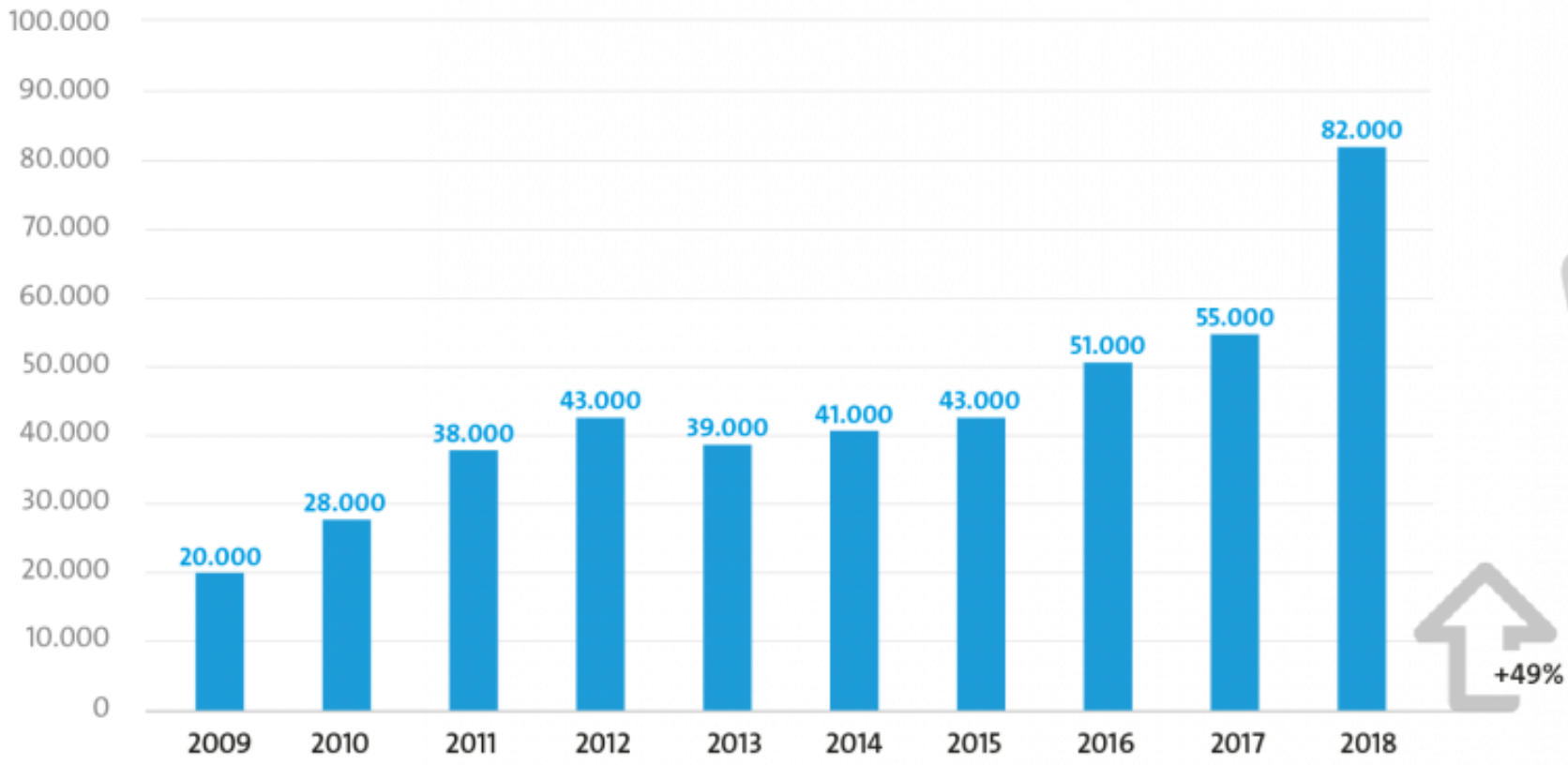
FACHKRÄFTEMANGEL

82.000 offene Stellen für IT-Experten

Anzahl zu besetzender IT-Stellen in der Gesamtwirtschaft



Basis: Unternehmen (Gesamtwirtschaft) ab 3 Mitarbeitern in Deutschland | Datenerhebung: jeweils im September
Quelle: Bitkom Research

bitkom

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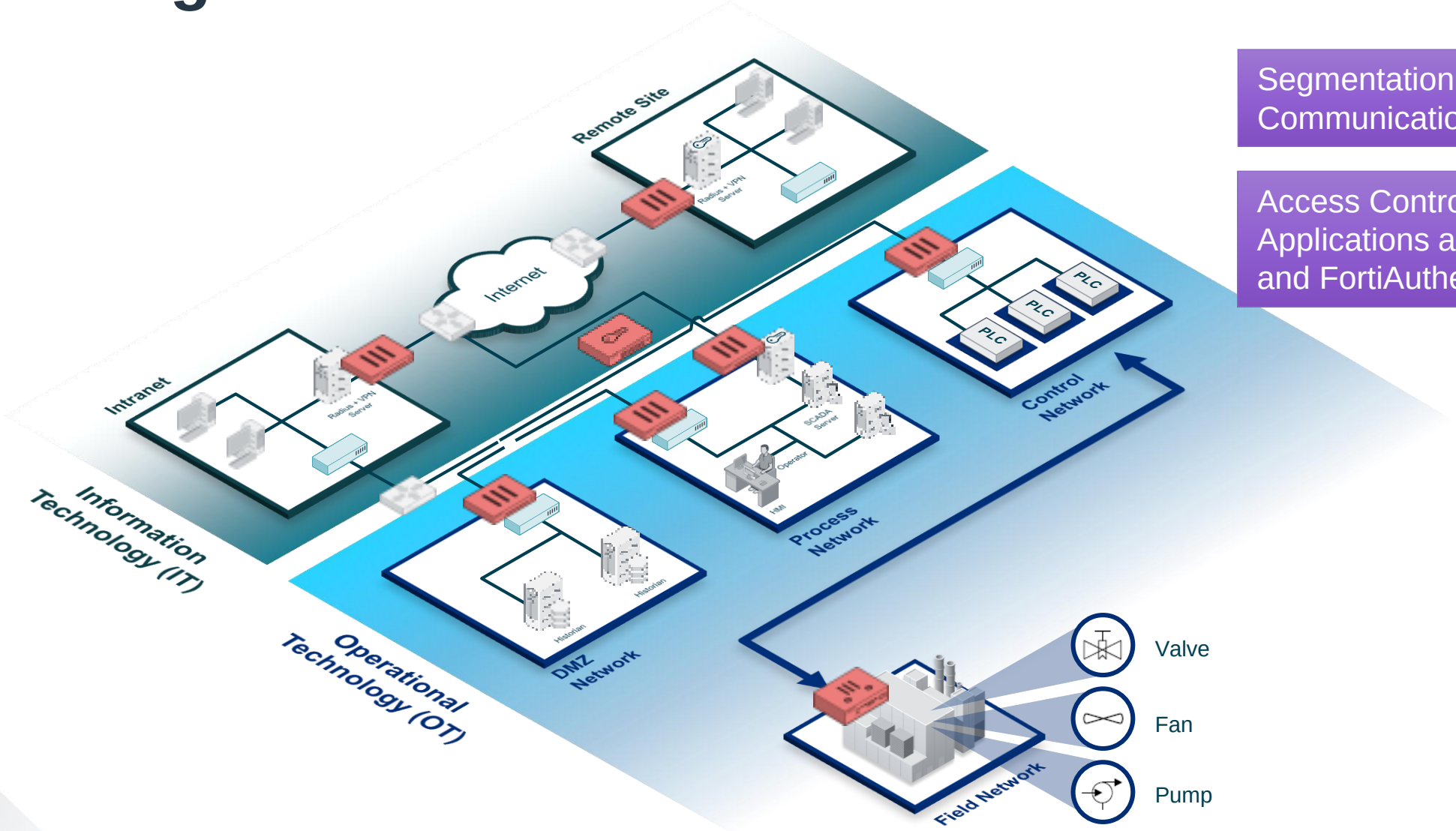
Interagierende und automatisierte Lösungen

Integriert und automatisiert



Segmentation / Encrypted Communication / Antivirus (FortiGate)

Access Control – Users, Devices, Applications and Protocols (FortiGate and FortiAuthenticator)

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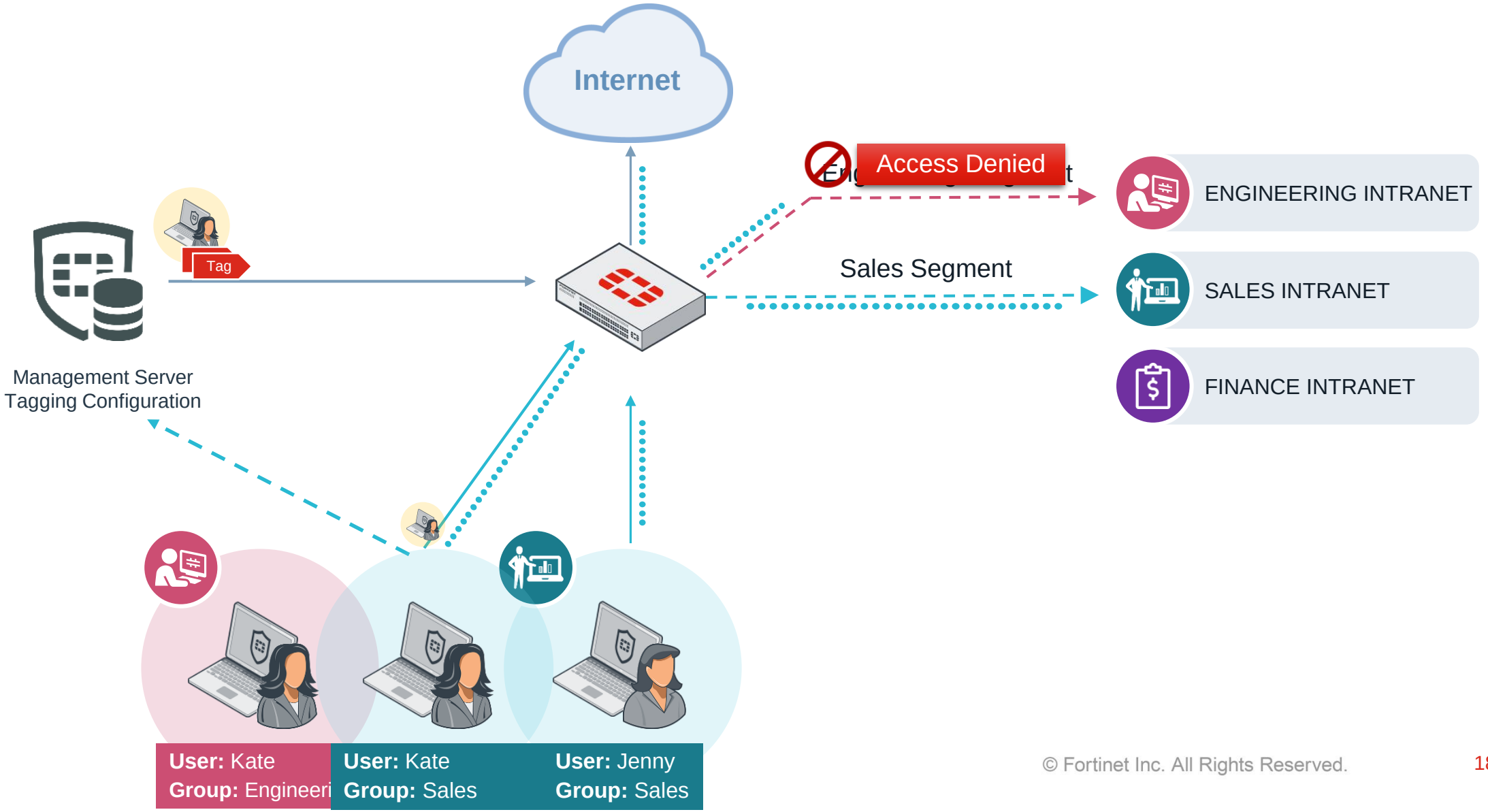
IDENTY & ACCESS (INTENT BASED SEGMENTATION)

Use Case: Access Based on AD Groups



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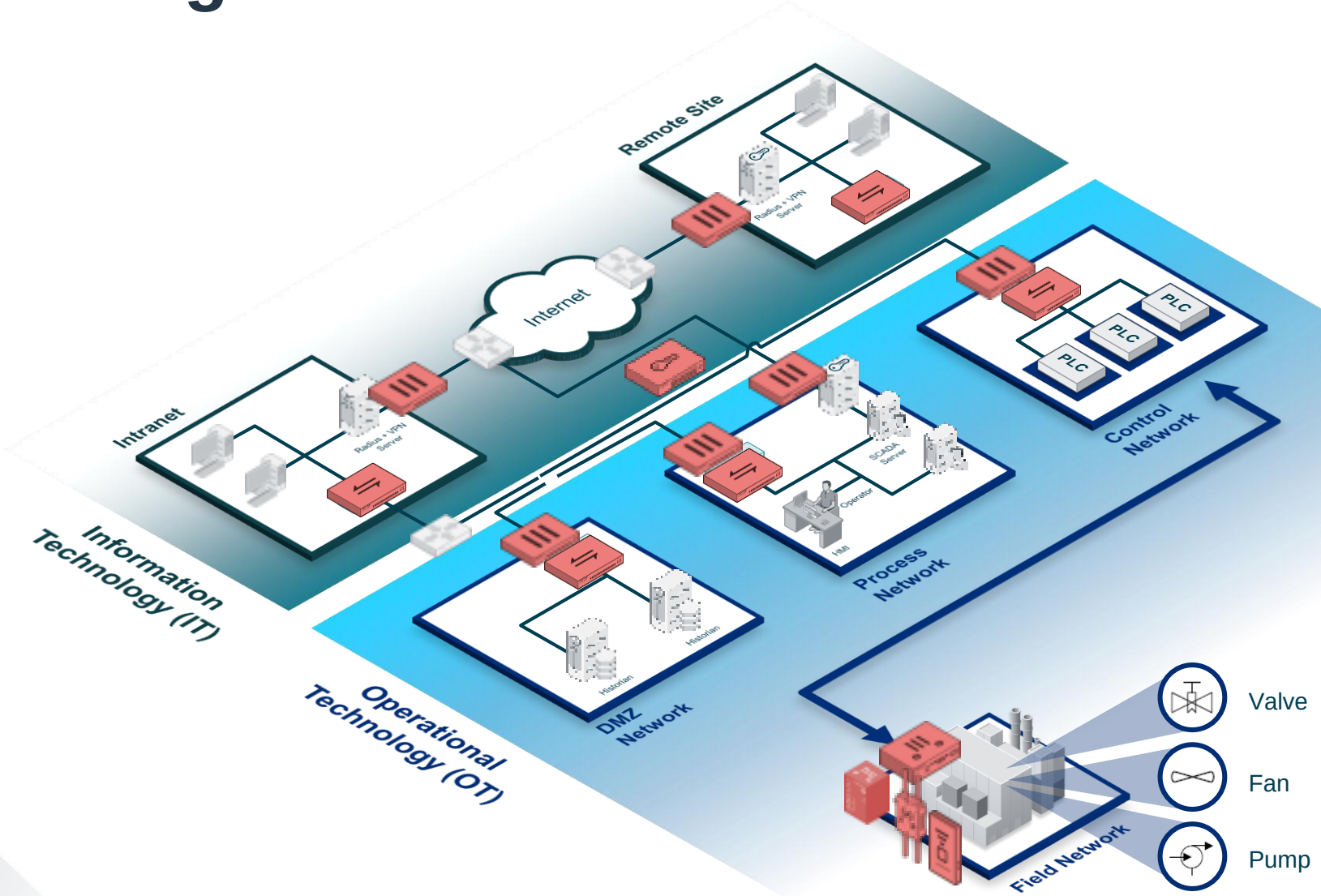
Integriert und automatisiert



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Secure Access (FortiSwitch/FortiAP/FortiExtender)

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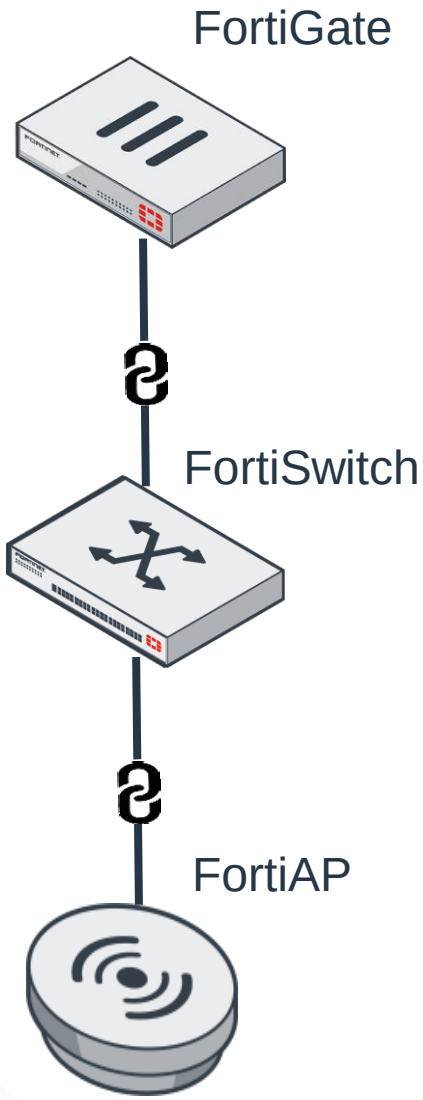
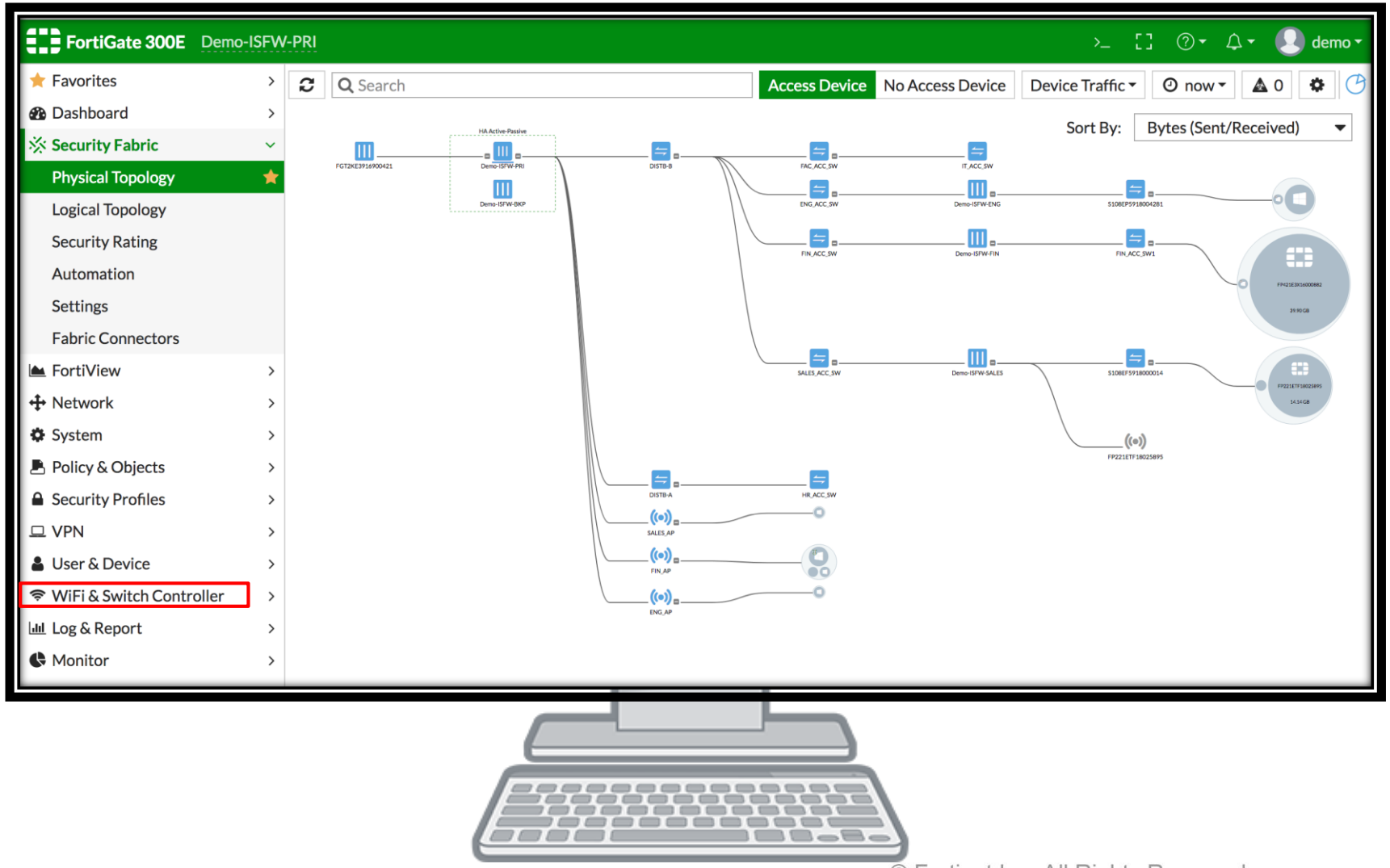
Network Deployment and Management with FortiLink





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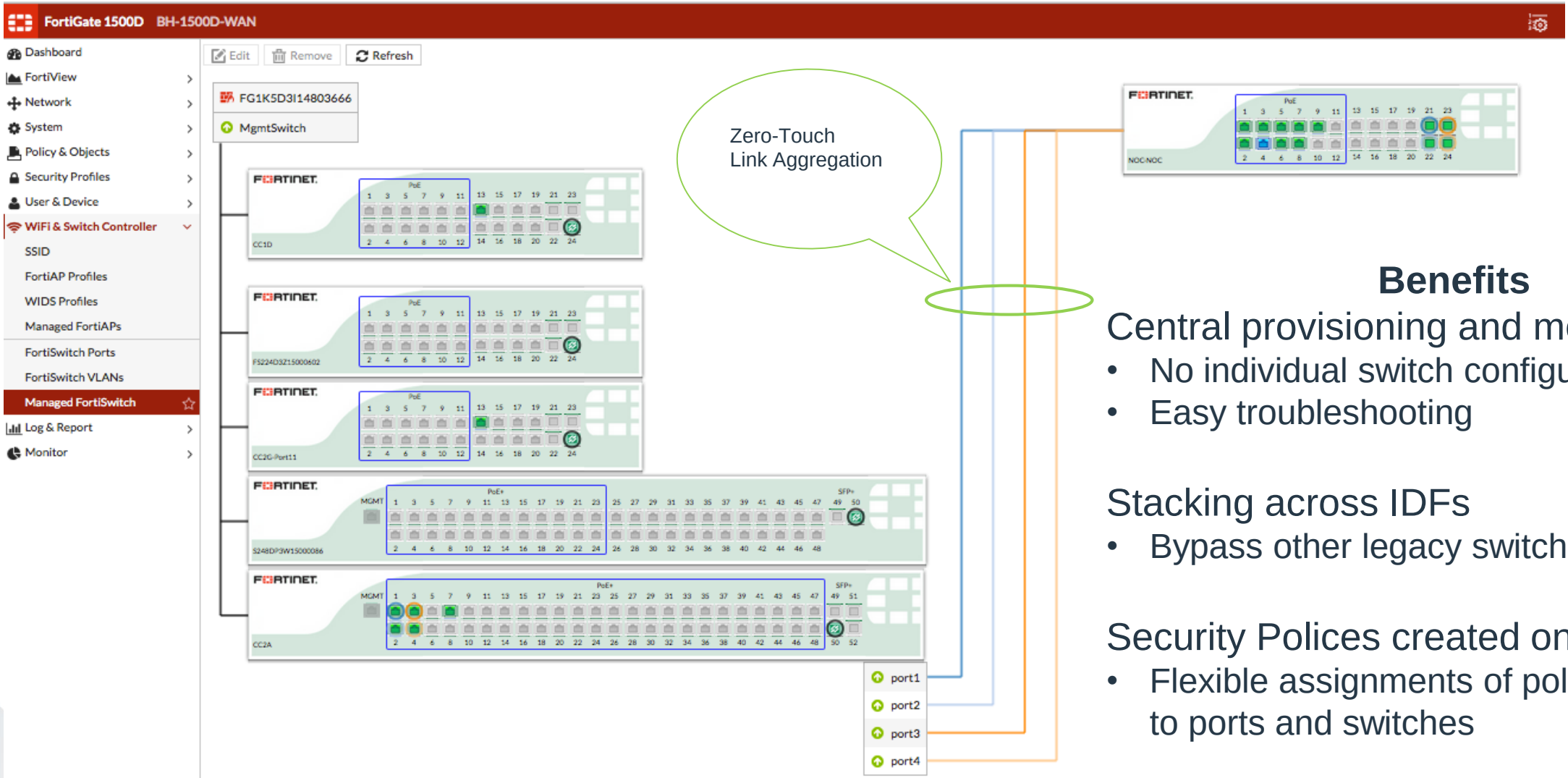
Managed Switch View



Benefits

Central provisioning and monitoring

- No individual switch configuration
- Easy troubleshooting

Stacking across IDFs

- Bypass other legacy switches on site

Security Polices created on global basis

- Flexible assignments of policy and VLANs to ports and switches

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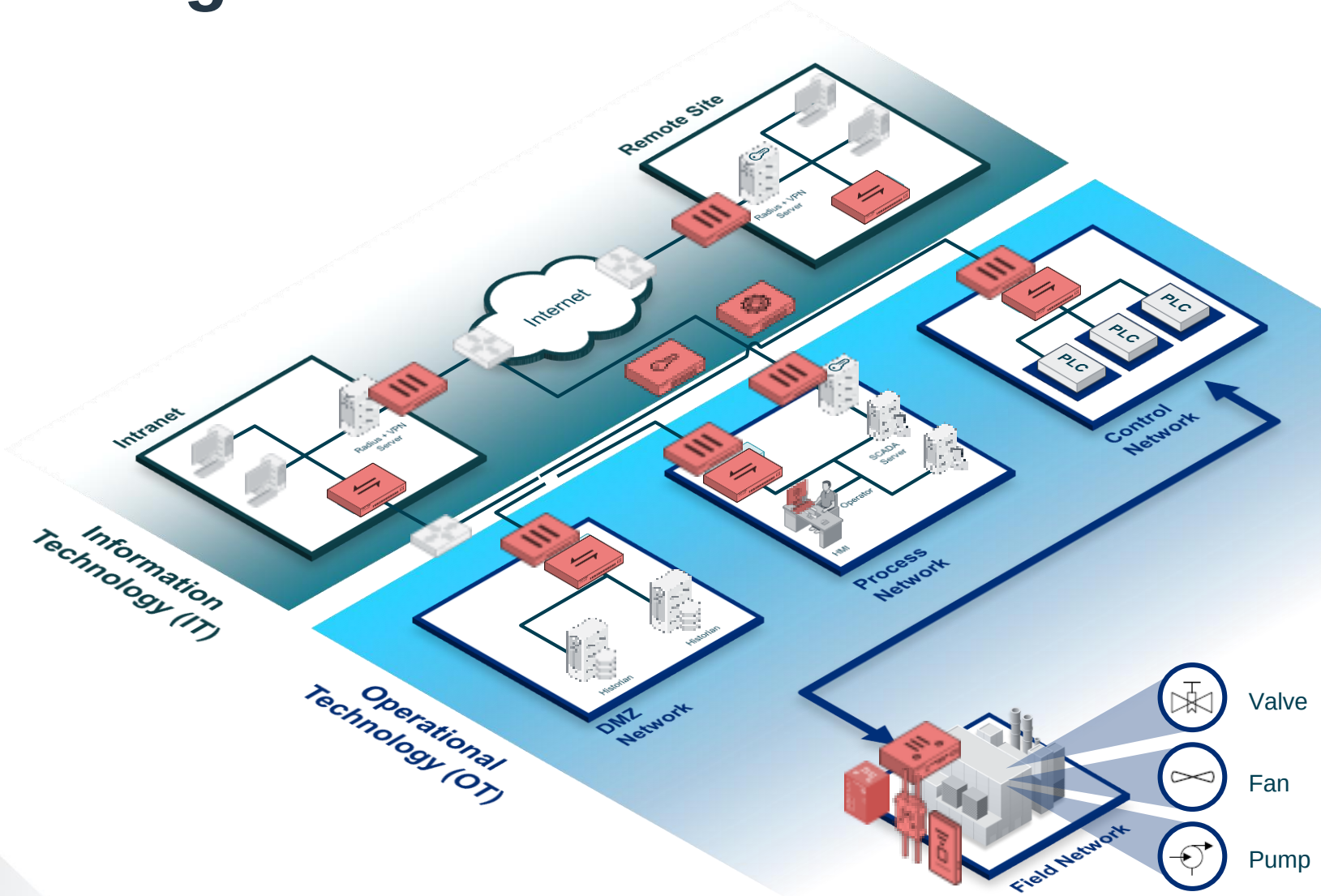
Integriert und automatisiert



- Segmentation / Encrypted Communication / Antivirus (FortiGate)
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- Secure Access (FortiSwitch/FortiAP/FortiExtender)
- Vulnerability and Patch Management (FortiWeb, FortiClient and FortiGate)

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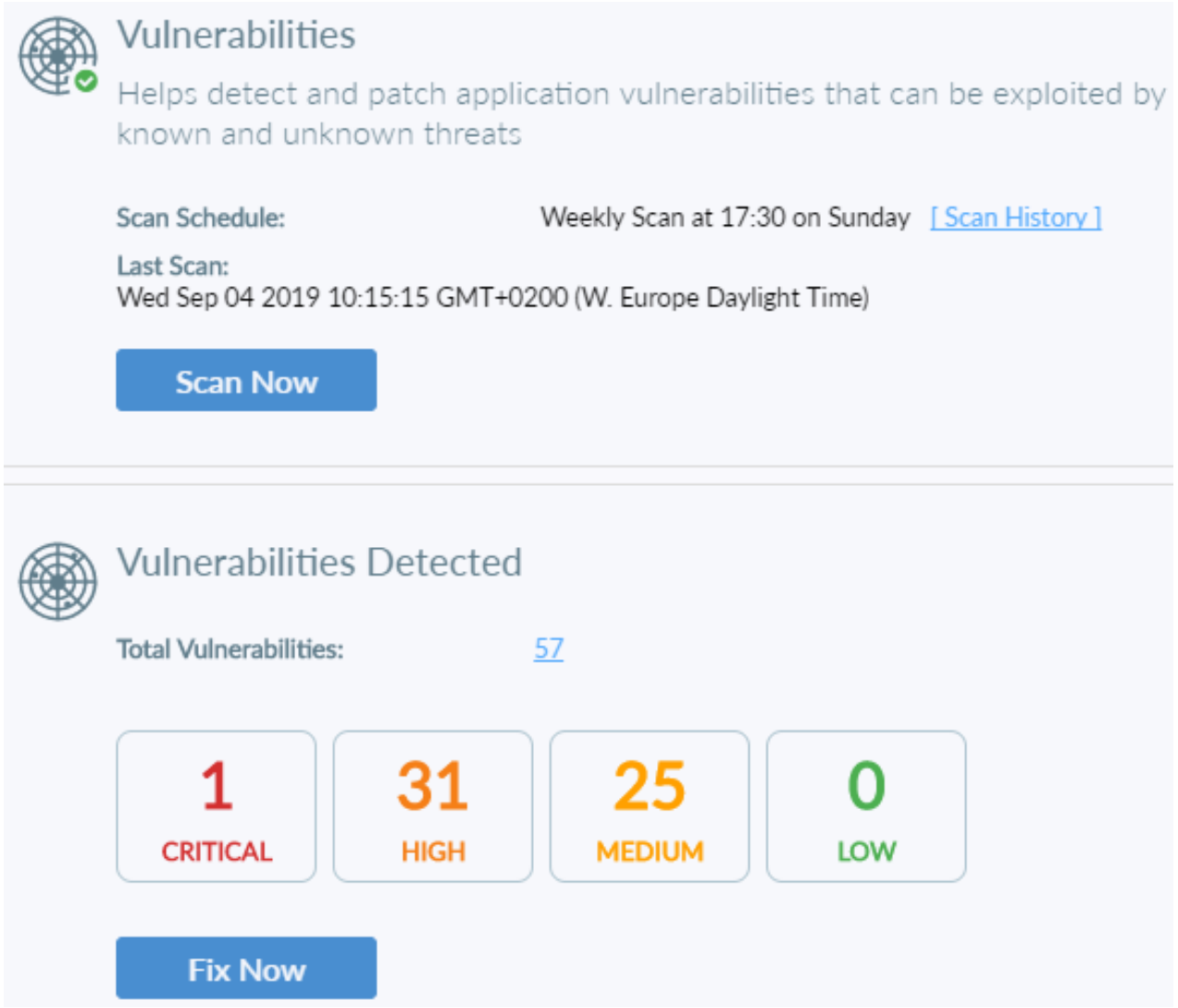
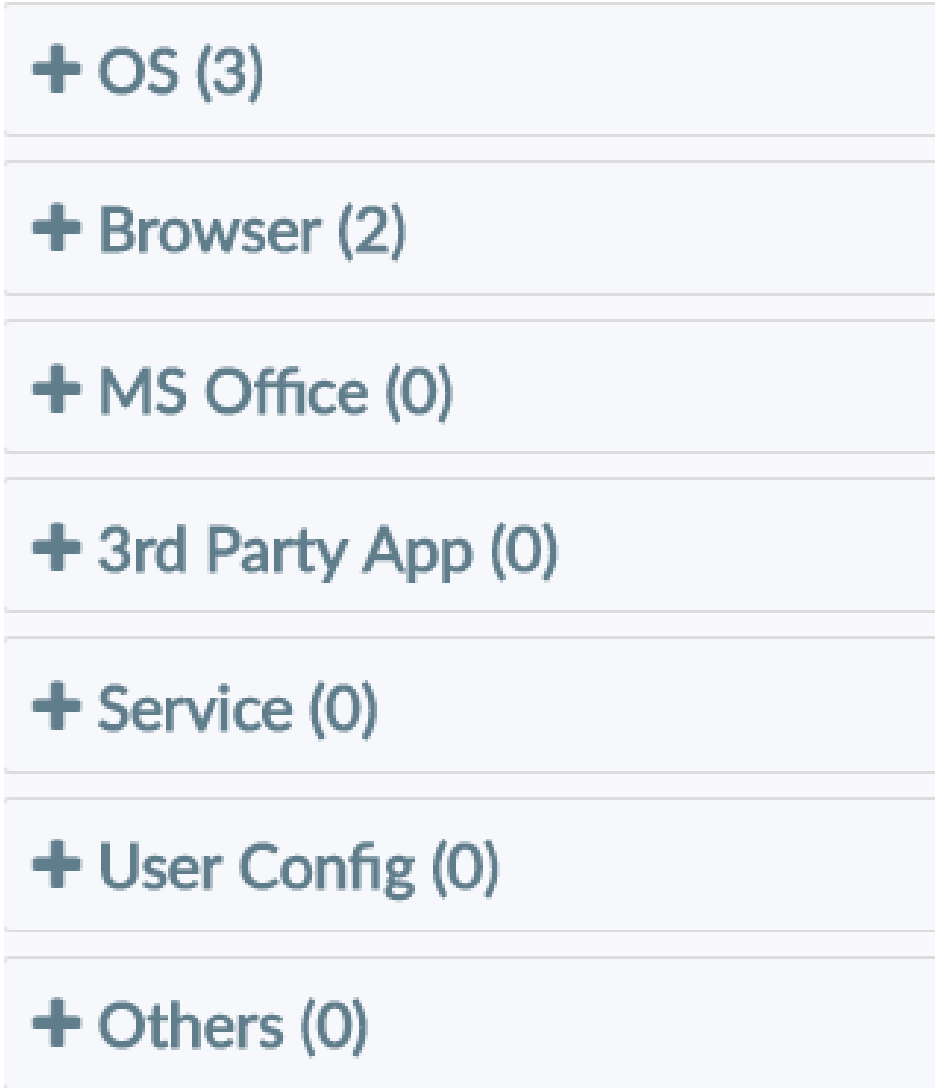
Schwachstellen





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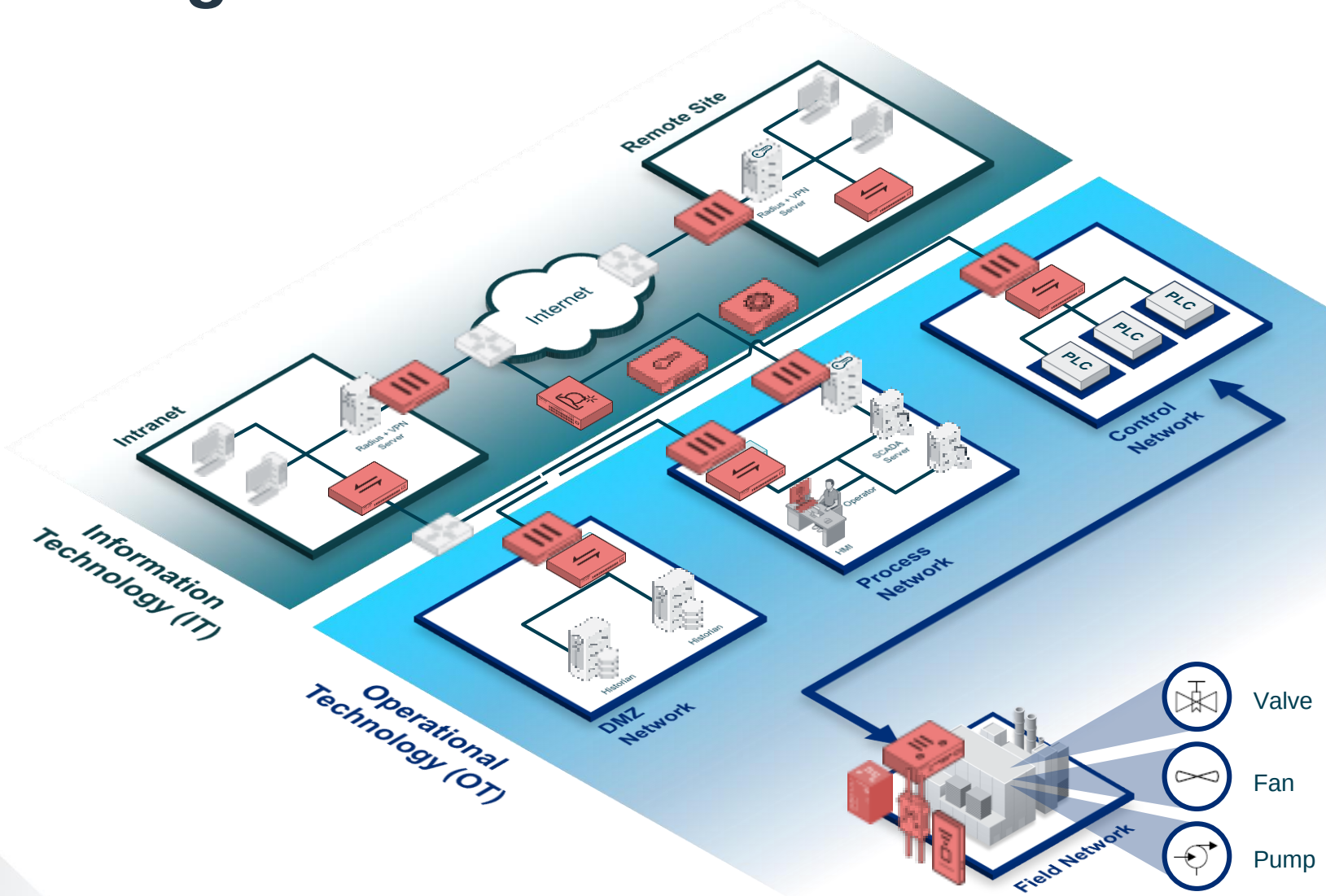

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FortiGate, FortiMail, FortiWeb & FortiClient send unknown samples to FortiSandbox for analysis

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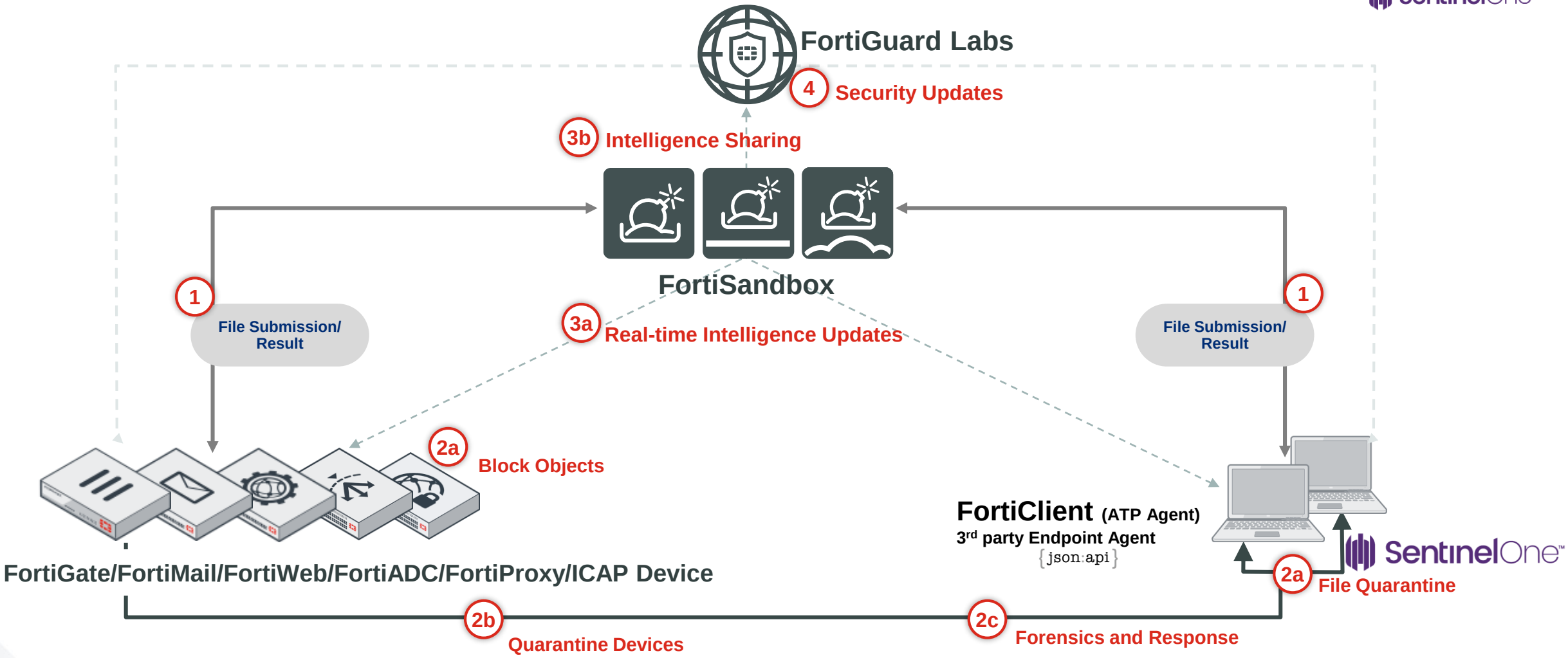
Kommunikation der Security-Produkte

Automated Intelligence Sharing and Response



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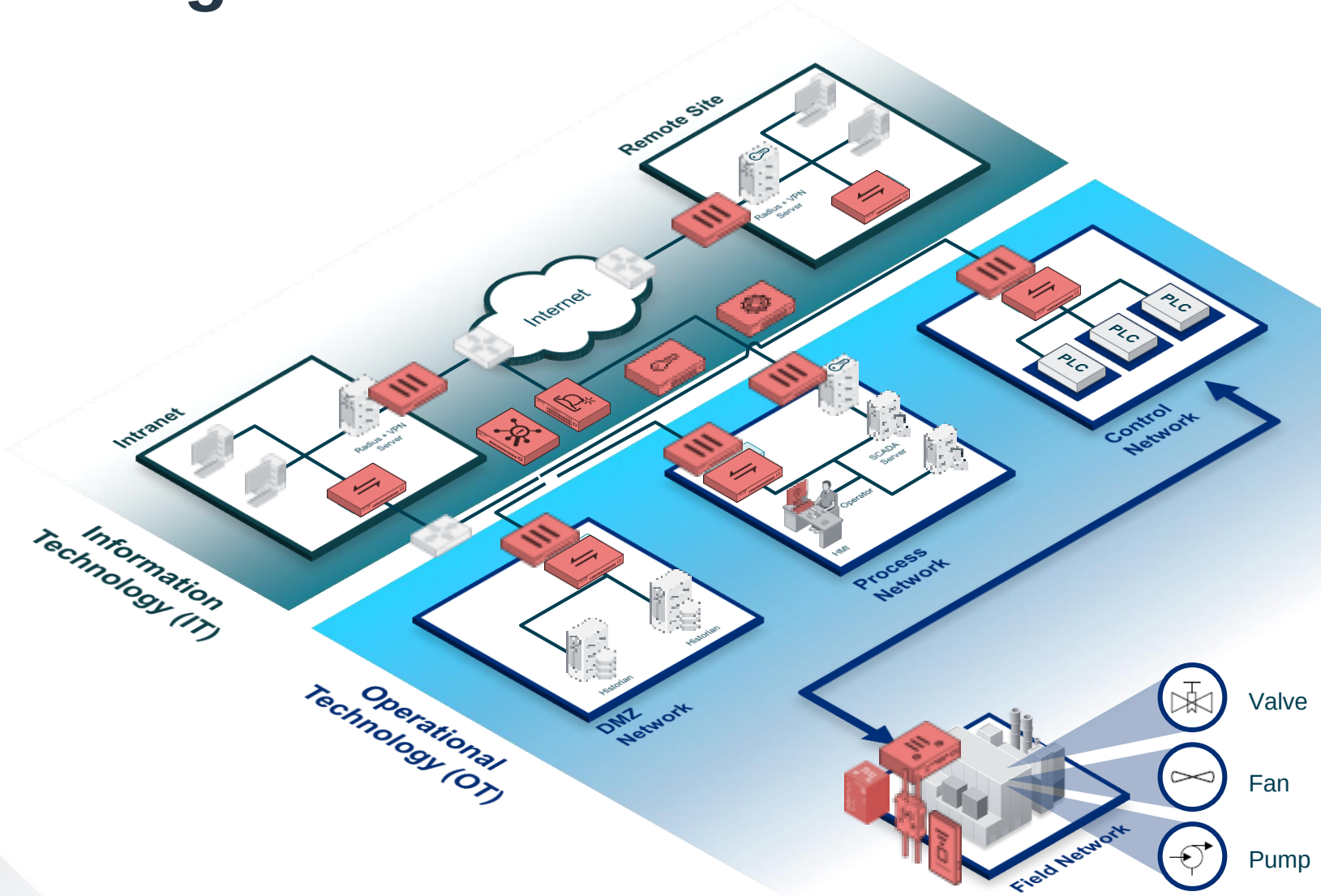
Integriert und automatisiert



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FortiSIEM collects logs and performs correlation and security auditing

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Key takeaways

- User Awareness erhöhen
- Verschiedene Technologien nutzen
- Einen integrierten Ansatz fahren
  - Automatismen etablieren
  - Einheitliches Management einführen
- Prävention - Detektion - Reaktion

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