Defense-in-Depth Model

Ensure continuous protection of business
critical systems and applications.

TENEO
OPENING MINDS

Making the case

As organizations continue to expand their networks, integrate remote workforces, and deploy new applications, cybersecurity threats are evolving at an unprecedented pace. Traditional perimeter-based security approaches are no longer sufficient to safeguard digital assets. To effectively mitigate these risks, businesses must adopt a Defense-in-Depth strategy, which leverages multiple layers of security controls to provide proactive and resilient protection.

The modern threat landscape presents several critical challenges. Perimeterless environments, driven by cloud adoption, IoT devices, and hybrid work models, have introduced new security blind spots. The attack surface continues to grow, as businesses rapidly integrate new applications and services, increasing the number of potential vulnerabilities. Evolving cyber threats, including ransomware, phishing, and zero-day exploits, necessitate advanced defense mechanisms. Additionally, organizations must ensure regulatory compliance with frameworks such as GDPR, ISO 27001, and NIST to avoid legal and financial repercussions.

A robust cybersecurity framework incorporates multiple protective layers. Network security measures such as firewalls, IDS/IPS, and micro-segmentation to safeguard traffic flow. Endpoint protection solutions, including xDR, and Email Security, secure user devices from threats. Identity and access control mechanisms like MFA, zero trust, and RBAC prevent unauthorized access. Data security strategies such as encryption, DLP, and regular backups ensure the integrity of sensitive information.

Application security practices, including WAF, API protection, and secure coding, help prevent exploitation. Threat detection and response tools like SIEM, threat intelligence, and automated response systems provide continuous monitoring and remediation. Lastly, user training programs and phishing simulations reinforce security awareness and reduce human risk.

With our Defense-in-Depth Model, Teneo aims to streamline adoption of this approach. Whether your environment is well on its journey to better security to meet the threats of tomorrow or you're in the early stages of taking your first steps on the journey, our versatile framework and experienced resources adapt to address your key challenges and exemplify your strengths throughout the entire process.

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Our approach

Understand

Through initial discovery and discussions, we provide a comprehensive and vendor-neutral approach. Ensuring robust security measures that prevent data breaches and proactively respond to zero-day threats.
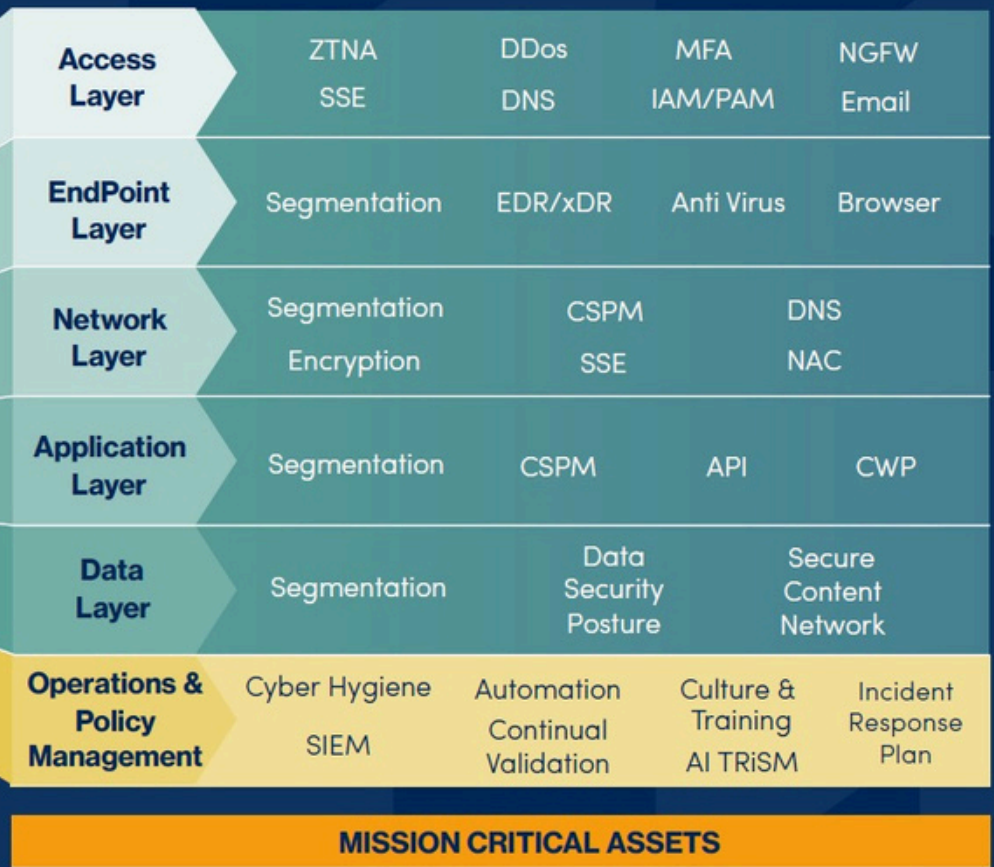
Design & Implement

Working closely with your team, we assist throughout the deployment process. We ensure proper implementation that aligns with your requirements to boost organizational adoption.

Stay ahead

Even after each successful deployment, we help you maintain compliance and stay up-to-date with the latest security trends to stay ahead of cyberattacks.

Defense in Depth Model

CONTINUOUS CYBER THREATS

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Layer				
Access Layer	ZTNA / SSE	DDos / DNS	MFA / IAM/PAM	NGFW / Email
EndPoint Layer	Segmentation	EDR/xDR	Anti Virus	Browser
Network Layer	Segmentation / Encryption	CSPM / SSE		DNS / NAC
Application Layer	Segmentation	CSPM	API	CWP
Data Layer	Segmentation		Data Security Posture	Secure Content Network
Operations & Policy Management	Cyber Hygiene / SIEM	Automation / Continual Validation	Culture & Training / AI TRiSM	Incident Response Plan

MISSION CRITICAL ASSETS

Our Defense-in-Depth Model

We have created a Defense in Depth Model which is a multi-layered security framework that protects critical assets against diverse threats. No single security measure is foolproof; instead, a combination of safeguards strengthens resilience. By securing access, endpoints, networks, applications, data and by focusing on operations, organizations can mitigate risks, detect threats early, and ensure business continuity.

The model has been built using a diverse range of top-tier cybersecurity products from industry-leading vendors, following best practice methods. It is designed to enhance your existing toolset and security strategy while leveraging the latest innovations in cybersecurity.

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Next steps

All our Defense in Depth engagements start with a <u>free, no obligation, conversation</u> about your attitude to risk and security posture. We also include a free risk assessment report and make key recommendations for strengthening your posture, taking technical, operation and commercial needs into consideration.

Purpose Beyond Profit

In working with Teneo, you are helping to improve the lives of a million children around the world. Learn more.

About Teneo

Most Network and Security teams are overworked so making progress is a challenge. We securely connect users to their applications by combining leading technology with expert guidance. You stay in control, simplify your operations and keep ahead of the game.

Find out more at www.teneo.net.

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