



# Segmentation

Gain deep network-wide visibility to prevent lateral movement and enable precise segmentation policies to stop the spread of ransomware and contain the impact of a breach.



# Making the case

Cyber attacks continue to grow in frequency and complexity, posing significant risks to your organization's sensitive data, intellectual property, and operational continuity. Segmentation mitigates these risks by restricting lateral movement within the network, preventing attackers from moving freely across segments in the event of a breach. By containing potential threats within isolated segments, we can minimize the impact of security incidents, protect critical assets and ensure business continuity.

In addition, compliance with industry regulations and data protection laws is non-negotiable for most organizations. Segmentation helps address compliance requirements by providing granular control over data access and ensures that sensitive information is only accessible to authorized users. Segmentation can be combined with other security tools from Teneo's portfolio including Identity Access Management (IAM) and Zero Trust Network Access (ZTNA) to create an adaptive security posture.

This solution forms part of StreamlineX, our innovative framework that enables IT teams to provide secure, optimized, and observable connections between users and applications.

## Our approach

We take a consultancy-based approach to deploying Segmentation, using the following steps to ensure maximum value from your investment.

### 1. Initial Assessment and Requirements Gathering



We collaboratively define the objectives you want from your segmentation deployment, considering factors such as regulatory compliance needs, data sensitivity, existing security controls, and operational constraints.

### 2. Risk Analysis and Gap Identification



Our consultants perform a comprehensive risk analysis, identifying potential security vulnerabilities and gaps within your network architecture.

We then evaluate the effectiveness of current security measures in mitigating emerging threats and assess the feasibility of implementing segmentation to address identified risks.

### 3. Design and Architecture Planning



Working together, we will develop a tailored segmentation design and architecture that aligns with your organization's specific security goals and operational requirements.

This will include defining segmentation zones, traffic flow policies, access controls, and segmentation enforcement mechanisms based on the results of the risk analysis and regulatory compliance considerations.

## 4. Pilot Deployment and Proof of Concept (PoC)



We will implement a pilot deployment of segmentation in a controlled environment or specific network segment to validate the proposed design and assess its efficacy in real-world scenarios.

The PoC will be used to test the functionality, performance, and security effectiveness of the segmentation solution against predefined success criteria.

## 5. Policy Development and Fine-Tuning



Following the PoC, we will develop comprehensive security policies and rulesets governing traffic flow and access control within each segmented zone, leveraging best practices and industry standards.

During this phase, we will refine and fine-tune security policies based on feedback from stakeholders, performance metrics, and observed network behavior during the pilot deployment phase.

## 6. Implementation and Rollout



Execute the full-scale implementation of segmentation across your organization's network infrastructure, following the validated design and security policies established during the pilot phase.

Our deployment engineers will ensure a smooth rollout process, providing necessary training and support to internal IT teams responsible for managing and maintaining the segmentation solution.

## 7. Continuous Monitoring and Optimization



Establish ongoing monitoring and analysis mechanisms to assess the effectiveness of segmentation in mitigating security risks and improving overall network resilience.

Regularly review and update security policies, adapt to evolving threats and business requirements, and optimize the segmentation architecture for maximum efficiency.

Our consultancy-first approach to deploying Segmentation, enables you to leverage the specialized expertise and experience of our cybersecurity consultants and engineers. This ensures a comprehensive, tailored, and effective implementation that addresses your unique security challenges and regulatory compliance needs.

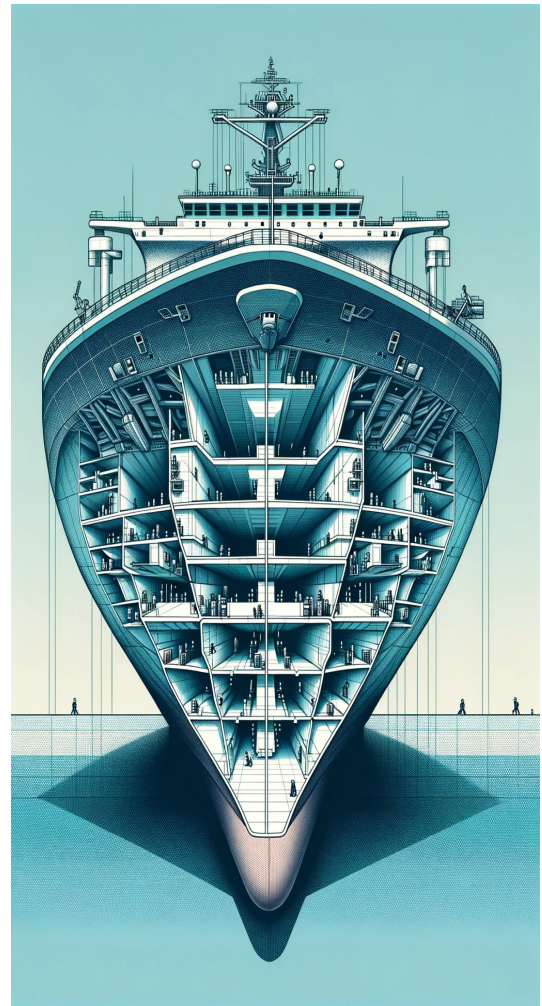


## Key Benefits:

- Minimize impact of the breach by preventing lateral movement
- Granular, AI-powered segmentation
- Real-time and historical visibility
- Broad platform support covering on-prem, cloud and containerized environments
- Fully customizable with flexible asset labelling
- Reduced operation costs based on automation

## Additional features:

In addition to the core benefits provided by segmentation, customers have also used the real time visibility functionality to enhance network efficiency, reduce network operational expenditure and implement automation initiatives.



In shipbuilding, segmented compartments in a hull prevent a breach from sinking the entire vessel. Similarly, in networking, data center and cloud security, segmentation acts as a barrier. It restricts an attacker's ability to move freely and compromise the entire system. Just as compartments in a ship contain damage, network segmentation contains cyber threats, enhancing overall security.

# StreamlineX

Segmentation is part of StreamlineX, Teneo's innovative framework combining market-leading technologies that empowers Network and Security teams to embrace digital innovation and navigate the challenges of modern connectivity.

Segmentation forms part of the process of developing a multi-layered approach to security and provides the answer to that important question – "What happens if we get breached?"

Find out more about [StreamlineX](#)

## Next steps

To get started with our Segmentation service, contact us to schedule a discussion today at [info@teneo.net](mailto:info@teneo.net).



## 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](http://www.teneo.net).

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