

# Lumen Zero Trust Network Access

Software-Defined Perimeter solution powered by Appgate

Today's digital businesses face mounting pressure from the explosion of data and the need to defend digital environments against increasingly sophisticated cyberattacks. Organizations like yours must build a consistent security strategy that can extend across hybrid environments, protect remote and third-party systems access and effectively secure IoT devices.

Lumen, in collaboration with Appgate, offers a highly scalable Zero Trust secure access solution that combines the power of the Lumen platform with the benefits of Appgate SDP, securing your network and controlling user access to applications.

## Dynamic, context-sensitive access policies

Designed around user and device identity. It builds a multi-dimensional profile of users and devices to deliver fine-grained access control, for individual users to access only what they need to do their jobs. The solution delivers consistent, automated security and help remove the human error factor.

## Individualized network access

Uses a real-time understanding of policy to create individualized perimeters for each user. All endpoints attempting to access a given infrastructure are authenticated before being granted access to any resources. Once access is authorized, Appgate SDP creates an encrypted tunnel – a segment of one – allowing traffic to flow only from the user device to the protected resource.

## Protects end user devices from unauthorized access

Isolates and secures both the protected resource and the user device from all inbound connections.

## Built like the cloud, for the cloud

Engineered to operate natively in cloud networks. It is completely distributed and as scalable as the internet itself.

## Safe from prying eyes

Single-packet Authorization technology cloaks infrastructure so that only verified users can communicate with the system. Appgate SDP is invisible to port scans and cryptographically hashed for further defense.



## Enterprise-Grade Zero Trust

Appgate SDP is a comprehensive micro-segmentation platform for enterprise-grade Zero Trust. The platform allows companies to adopt Zero Trust by solving a variety of challenges, including:

### Consistent security strategy across hybrid environments

Overcome the challenges of securing access to hybrid environments such as public and private clouds and data centers. Appgate SDP is infrastructure-agnostic and supports Lumen services, including Cloud Application Manager, Cloud Connect, Dynamic Connections, Managed Private Cloud, and DIA. Appgate SDP Live Entitlements automatically add new/additional resources to existing security groups. Access is logged and integrated into existing Lumen Security Log Monitoring ticketing systems.

### Secure remote user and third-party access to enterprise assets

Appgate SDP grants access based on context-sensitive identity and encrypts connections between users and approved systems. It restricts lateral movement on internal networks and can be deployed end-to-end in parallel with Lumen SD-WAN and Adaptive Network Security as a seamless layer to secure remote user access.

### Unified Zero Trust security across legacy and modern IoT devices

Appgate SDP's Connector leverages the core principles of Zero Trust to secure unmanaged devices, restricting lateral movement and minimizing an organization's attack surface. Organizations benefit from granular control based on pre-set segments available in a single platform that enforces access control policies across users, servers and IoT devices.



**Lumen and Appgate have created a seamless, softwaredefined perimeter solution to address the many use cases and applications for today's digital businesses so your business can establish a new security paradigm in a matter of weeks, not months or years.**

## Why Lumen?

Lumen is your single provider to enable digital transformation. Lumen security solutions are delivered as a combination of service-chained functions in the cloud for enhanced flexibility and scale. Appgate SDP can be paired with other Lumen security and networking solutions, so your business can implement an integrated defense-in-depth secure network. Partner with Lumen on Professional Security Services to obtain resources for consulting and advisory services, risk and compliance management, and security device and operations management.

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