

# **Lumen<sup>®</sup> Internet On-Demand**

## **Security Reference Architecture Guide**

# Internet On-Demand: Layered Holistic Protection

Lumen® Security Solutions are built to take the pressure off your existing environments and better protect your data and apps.



## Lumen® DDoS Essentials

Volumetric protection designed to prevent circuits from being flooded by a DDoS attack.

### What it Blocks

- Volumetric Bots
- Volumetric Reflectors



## Lumen Defender<sup>SM</sup>

Automatically blocks traffic to/from internet-based hosts belonging to threat actors.

### What it Blocks

- Bots
- Attacks
- Proxy
- Spam
- Malware
- Phishing
- C2
- Scanning



## Customer Firewall

Filters traffic based on custom, user-defined rules.

### What it Blocks

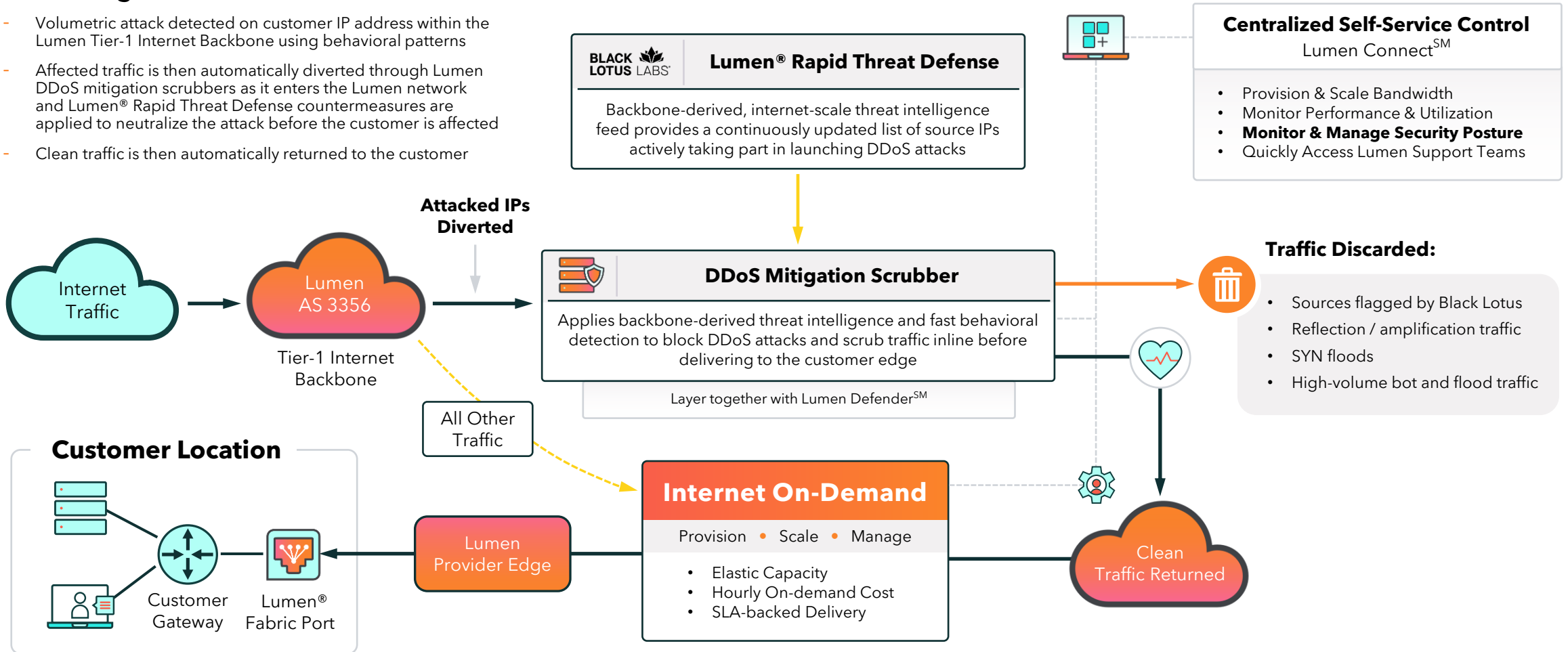
- Unsupported Applications
- Unused Ports
- Unauthorized Users

# Lumen® DDoS Essentials for Internet On-Demand

Network-embedded volumetric protection powered by Black Lotus Labs® intelligence.

## DDoS Mitigation Flow:

- Volumetric attack detected on customer IP address within the Lumen Tier-1 Internet Backbone using behavioral patterns
- Affected traffic is then automatically diverted through Lumen DDoS mitigation scrubbers as it enters the Lumen network and Lumen® Rapid Threat Defense countermeasures are applied to neutralize the attack before the customer is affected
- Clean traffic is then automatically returned to the customer

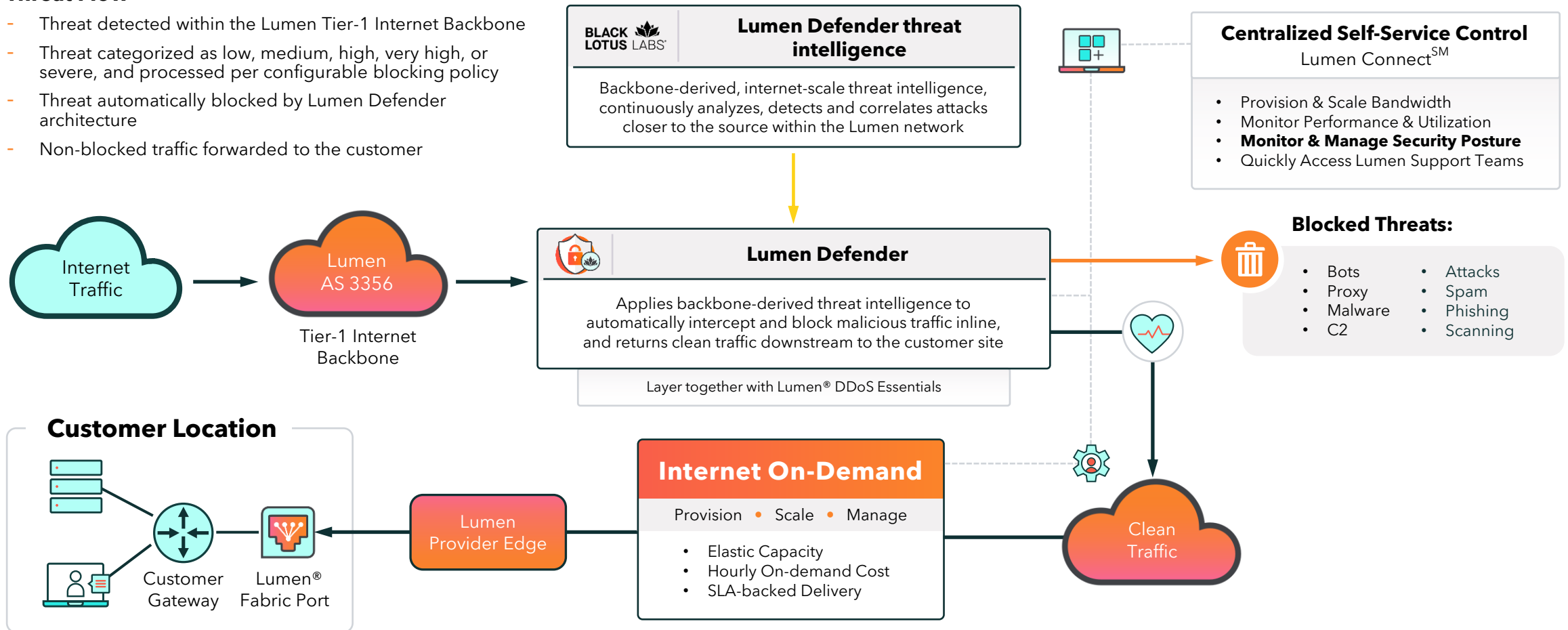


# Lumen Defender<sup>SM</sup> Plus for Internet On-Demand

Network-embedded, customizable upstream protection powered by Black Lotus Labs<sup>®</sup> intelligence.

## • Threat Flow

- Threat detected within the Lumen Tier-1 Internet Backbone
- Threat categorized as low, medium, high, very high, or severe, and processed per configurable blocking policy
- Threat automatically blocked by Lumen Defender architecture
- Non-blocked traffic forwarded to the customer



# Lumen Defender<sup>SM</sup> Essentials for Internet On-Demand

Network-embedded severe risk level protection powered by Black Lotus Labs<sup>®</sup> intelligence.

