2EVOLVE TECHNOLOGIES Future Ops 2021

How We Started

Founded in 2003, by CEO Cindy Ried

- •The vision was surrounded by the idea of shaping strong relationships that forms real revenue and business growth in the fast and complex world of IT
- •With over 75 business partners (and growing), who are each highly skilled within their areas of expertise
- •2Evolve was build on a foundation of a knowledgeable team of consultants who are still here today, nearly two decades later

Headquarters based in Omaha, NE

- With additional branch offices in St. Louis, MO, Springfield, MO, and Grand Junction, CO
- •2Evolve Technologies has evolved into a premier technology partner offering over 200 vendor solutions
- Our commitment to superior customer service and cutting-edge solutions ensures your technology needs are met with industry experts and excellent ongoing support
- Ongoing/back office support, with nearly two decades of experience that gives every one of our partners and customers a superior customer experience
- •2Evolve Technologies now manages over 6,000 clients & our base continues to grow daily



Solutions We Offer

UCaaS

BASIC UCAAS SEAT

- Voice
- Text / SMS
- Video (Zoom)
- Web Conferencing
- Collaboration (Slack, Glip, MS Teams, etc.)

ADD ONS

- CRM Integration
- Accounting Integr.
- CCaaS Integration
- IVR
- Call Recording
- Al / Sentiment

PREMISE SYSTEMS

- Prem as-a-Service
- SIP Trunks

CCaaS

CCAAS SOLUTION

- IVR
- Analytics
- Performance Mgmt
- Dashboards

DIALER

- Outbound Dialer
- Preview
- Predictive Dialer
- Progressive Dialer

WORKFORCE MGMT

QUALITY MGMT

- AI / Sentiment

CRM INTEGRATIONS

UCAAS INTEGRATIONS

PCI HANDLING

HIPPA HANDLING

GAMIFICATION

ADD ONS

- Accounting Integr.
- Call Recording

Network

SD-WAN

- Auto-Failover
- Bondina
- Intelligent Routing
- VNF (Virtual Network)
- Firewall
- Application Aware

CONNECTIVITY

- Broadband
- Dedicated Fiber
- Coax
- WISP / Microwave
- 3G/4G/5G Internet
- Satellite Internet
- Circuit Aggregation

MANAGED WIFI

- Internal Network
- Guest Network

SECURITY

- Firewall (Prem / Web)
- Endpoint Security
- Network Security

- Assessment

REMEDIATION

- Circuit Monitoring
- Trouble Ticket Creation Containment /

Security

IDENTIFY

- Virtual CISO
- Cyber Consulting
- Vulnerability Assess.
- Penetration Test
- Compliance
- Phishing Simulation
- Awareness Training

PROTECT

- Managed Firewall
- Web Security
- Email Security
- Endpoint Protection
- Managed Cloud FW - Data Protection
- Zero-Trust Framework
- Remote User VPN
- Patch Management

DETECT

- Loa Mamt (SEIM)
- Al Machine Learning
- Intrusion Detection
- Intrusion Prevention
- SOC as a Service

RESPOND

- Incident Response
- Eradication / Restore

Cloud

CONNECTIVITY

- Public Cloud Onramps
- Direct Connects
- Express Routes

COMPUTING

- Private Cloud
- Public Cloud
- Bare Metal
- Colocation
- Orchestration

IAAS

STORAGE

- Cloud File Storage
- Colocation
- Managed Backup
- Disaster Recovery

MANAGED SVCS

- Managed O365
- IT Support
- Desktop aaS
- Cloud Migration - Professional Svcs

SAAS MGMT

- Microsoft Office
- SAP

IoT

SENSORS

- Temperature
- Pressure
- Soil Moisture Content
- Video
- Panic Buttons

FLEET & ASSET

TRACKING

- Cold Chain

Monitoring

- Al for Driver

Behavior

REPORTING

- Geo-Fence

Velocity /

- Compliance

- Detailed Use

Acceleration

- Supply Chain

Cargo Monitoring

Management

- Indoor Tracking

- Preventive Maintenance
- -Bin/Tank Monitoring - Detailed Reporting
- Occupancy - CyberReef Solutions

EXPENSE MGMT - Wireline

Misc.

MOBILITY

- iPads

- Devices

MOBILE NETWORK

- Device Usage Mgmt

- Application Filtering

- Detail Reporting

- Handsets

- Mobility

PHYSICAL SECURITY

- Video Surveillance
- Access Cards

SURVEYS

- Ariel Drone Surveys ConnexiCore

ANSWERING SVCS

- Ruby Receptionist





Suppliers We Offer



Our Team. Our Mission. Ou Vision. Our Goal.

- Our Team: is our biggest asset
 - With over 100 years of combined experience (some of our team has been with us since we started in 2003), we are unstoppable
- We support one another in every way so we can make our customer and partner experiences the absolute best possible
- Each of us at 2Evolve seek integrity at the highest level and this means we are completely translucent to all customers and partners
 - This is the key to all relationships and how our company has thrived for almost two decades
- Our Mission: Provide premier IT & Carrier solutions from leading Global IT communications companies.
- Our Vision: To be regarded as the premier communications and technology group for all Cloud, Data Center, Network, Mobility, and Business Intelligence solutions.
- Our Goal: To provide customers with the best possible solutions to meet their business needs. Your satisfaction is our indicator for success

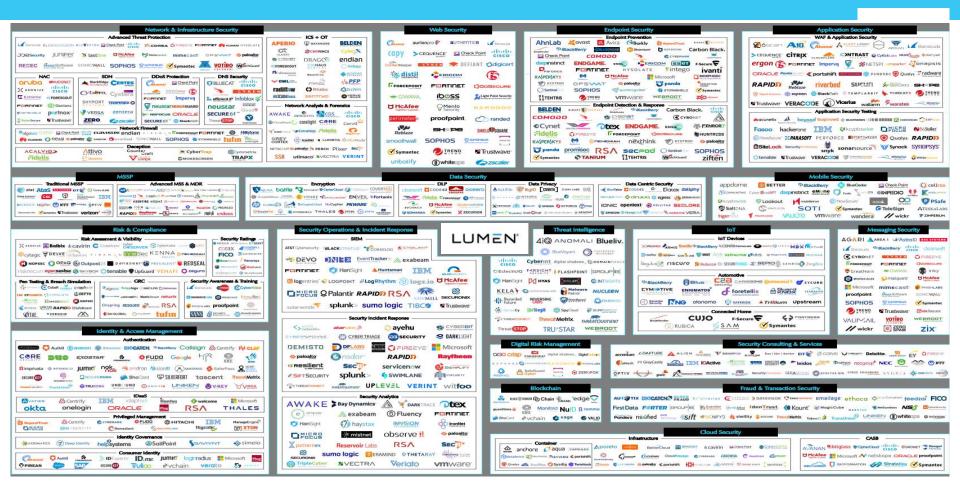




Lumen Security

Presenting A Broad Portfolio of Lumen Security Service: JT Lecompte + Rob Browning







Lumen® Security Sneak Peek Presented in valued Partnership with 2Evolve Technologies

Date: October 15th 2021

Uncover vulnerabilities fast



Technology without borders

Have you checked your network vulnerabilities lately?

- Hybrid/remote workers opening new vulnerabilities. Colonial Pipeline attack was through old VPN credentials.
- Ransomware attacks on the rise. 2021 attacks include: Colonial Pipeline \$4MM, JBS Foods \$11MM, Acer computers \$50MM.
- Company credentials you may not know are exposed are being sold on the Dark Web. Have you ever wondered what a hacker can see when researching your company?



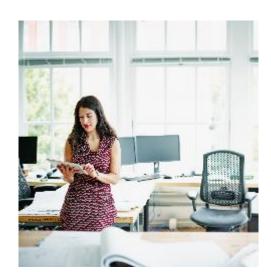


Security Sneak Peek

Uncover vulnerabilities fast

See what hackers see within a short amount of time and get a report stating known vulnerabilities. You also receive a one-time service credit of up to \$5,000 to purchase eligible security services

- Dark Web Scan
- Technical Scan
- Web Application Scan
- Recommendation from world-class security experts on how to improve your risk exposure
- Up to a \$5,000 credit toward the new purchase of eligible security services*





Take a sneak peek and fight back

Uncover vulnerabilities fast

Dark Web Scan

 Uncover any exposed credentials on the Dark Web on your current domains (up to 5 domains)

Technical Scan

 Identify weaknesses in your organization's public facing environment (up to 100 external IP addresses)

Web Application Scan

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 Pinpoint web application vulnerabilities (limited to 2 web apps)

Assessment Report

- After the scans are completed, Lumen security analysts deliver a report that summarizes the methodology, the findings and our recommendations
- The assessment will be delivered within 30 days of project kickoff

Security Credit

 Receive a one-time service credit up to \$5,000 for the new purchase of eligible security services*

*Offer requires customer to purchase and complete a qualifying Lumen Security Assessment. After assessment completion, customer will be eligible for a one-time service credit to be used within one-year of assessment completion in the amount of customer's monthly recurring or non-recurring service charge up to \$5,000, for the new purchase of eligible security services with a minimum 12-month term agreement for services billed monthly or with a minimum \$10,000 non-recurring charge for services billed one time. The one-time service credit will be applied to customer's account within 30 days after the first month following installation and billing of all eligible services. Offer excludes charges for equipment, installation, taxes, fees and surcharges. Early termination fees will apply as set forth in customer's agreement and include an amount equal to any service credits received under this offer. Service and offer may not be available everywhere. Lumen may change, cancel or substitute offers and services, or vary them by service area at its sole discretion without notice. Credit approval and deposit may be required. Offer may not be combined with other offers. 30-day timeline depends on customer promptly providing all info and access requested by Lumen. Additional restrictions, terms and conditions apply.

Uncover what's hidden on the Dark Web and more



Know Your Biggest Vulnerabilities

- Three-part vulnerability scan
- Detailed analysis received within 30 days of project kickoff
- Strengthen your security posture



Customized Reporting Based on Today's Market

- Assess your immediate risks
- Learn what's exposed within 30 days of project kickoff
- Receive credit for future services



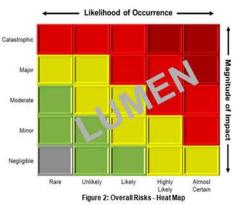
Learn from the Experts

- Decades of cybersecurity experience
- Experts in delivering security assessments



Sneak Peek Assessment Report





External Networks

Based on the scans performed, the following table summarizes the greatest risks and recommended remediations for the external networks and technical scans.

NFS Exported Share Information Disclosure

- Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)
- Apache Tomcat AJP Connector Request Injection
- Bind Shell Backdoor Detection VNC Server 'password' Password

Most Effective Remediations

- Remove and/or disable all unneeded services Strengthen encryptions methods and reissue
- H. n a server configurations Upc no. vices and server operating systems her er possible
 - Implement strong password controls

Web Applications

Based on the web applications scaned this following table summarizes the greatest risks and recommended remediation activities for these web applications.

ea	tes	t F	₹is	ks	

Unsupported Web Server Detection

- Apache PHP-CGI Remote Code Execution TWiki 'rev' Parameter Arbitrary Command Execution
- PHP PHP-CGI Query String Parameter Injection
- Arbitrary Code Execution CGI Generic Command Executio

- Eliminate cross-site scripting vulnerabilities Upgrade PHP-related elements
 - Disable or remove unneeded HTTP methods
 - Upgrade all web server platforms to the latest

Dark Web Scan

By its very nature, information obtained via publicly accessible sources must be considered already compromised, or at the very least unsuitable for use in authentication methods. As a result, Lumen security specialists recommend that any information uncovered through these avenues never be used for security controls.

While it is unreasonable to suggest any security measure in processes and systems outside of A.C.M.E.'s control, Lumen lec nitropecialists recommend the following actions:

- Do not re-use passwords
- Use complex passwords
- Utilize all available email and DNS security capabilities



Figure 3: Implementing Security Best Practices



Sneak Peek Assessment Report

Using this Report

This report contains multiple sections tailored for a variety of audience. Lumen security specialists recommends that each reader focuses on the section, retaining to their level of understanding and detail. While all the information is valid for a lay-person audience, technical audiences will find more value more and more detailed and technical sections while executive audic cessions will be summary sections more helpful. In all cases, recommendations are included throughout to help A.C.M.E.'s technic less and included throughout to help A.C.M.E.'s technic less are included throughout throughout the area are included throughout throughout the area are area.



Figure 1: Sneak Peek Offer

Executive Summary: Provider a high-le all ovi view of all notable findings within the report. The intent of this section at to raise the organization's publicly visible security exposure to senior and executive level management.

Methodology: Provides a detailed overview of the methods leveraged by Lumen security specialists to uncover security

Table 8: Dark Web - Credentials Obtained

Total Credentials Cleartext	33
Total Credentials Hashed	17
Associated Emails	20
Associated Usernames	13
Personal IP Addresses	3

Table 9: Top Expos d Cre lentials

Email	johansen.J@acme.com
Usernames	chillinjoel
Password(s)	peter13
# of Times Seen	8

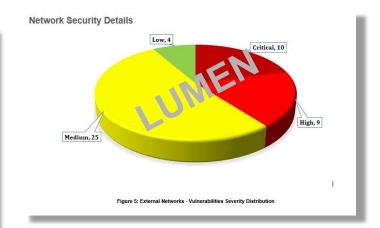


Table 2: Most Vulnerable Network Hosts

Host	Critical Risk	High Risk	Medium Risk	Risk Score
172.16.233.129	100	54.2	197.2	351.4
Note: Values indicated about are the sum of all CVSS scores within each risk category.				

+ Table 3: Most Critical Network Vulnerabilities

N	D'-1-D-4'	CVCC-2 D-t'	114-
Name	Risk Rating	CVSSv3 Rating	Hosts
rexect Service Detection	Critical	10	172.16.233.129
NFS Exported Share Information Disclosure	Critical	10 (v2)	172.16.233.129
Debian OpenSSH/OpenSSL Package Random Number Generator Weakness	titical	10	172.16.233.129
Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)	Cri eal	10	172.16.233.129
Unix Operating System Unsupported Version De ctio	Critical	10	172.16.233.129
Bind Shell Backdoor Detection	Critical	10	172.16.233.129
VNC Server 'password' Password	Critical	10	172.16.233.129
rexecd Service Detection	Critical	10	172.16.233.129
Apache Tomcat AJP Connector Request Injection (Ghostcat)	High	9.8	172.16.233.129
Multiple Vendor DNS Query ID Field Prediction Cache Poisoning	High	9.1	172.16.233.129
ISC BIND Denial of Service	High	7.5	172.16.233.129

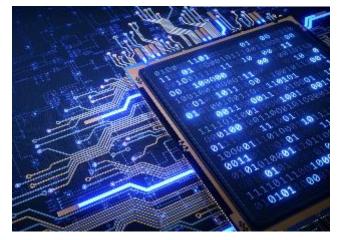


Threat intelligence you can count on



Powered by Black Lotus Labs®

- Threat Intelligence built from one of the world's largest internet backbones, which gives us a massive field of view when it comes to emerging and evolving cyber threats
- Comprised of threat intelligence experts and data scientists that create accurate, rapid and actionable threat intelligence for Lumen customers, products and services
- Your vulnerability scanning is being conducted by a worldclass security team providing some of the most comprehensive threat intelligence in the world



Black Lotus Labs defends the internet against known and emerging threats, discovers new attack vectors, and indirect threats in the wild before they can harm your organization.



Lumen DDoS Mitigation Services Presented with 2Evolve Technologies

Date: October 15th 2021





Lumen Security:

See More – Stop More – in Real-time

- Global network provides expansive visibility into threat landscape
- Custom, high-fidelity threat intelligence
- Disrupting malicious infrastructure with proactive botnet takedowns
 - Discover ~680+ C2s per month
 - Track~28,000 C2s daily
 - Take down ~63 C2s per month
- Investing in simplicity, digital experience, automation
- Creating a safer Internet through information sharing and collaboration



Why Lumen for DDoS?



Global Peering/Carrier Agnostic

120+ Tbps of global network capacity, localized private peering w/ private interconnects maximizes performance - more than 9,000 unique AS interconnects*



First Line of Defense

Internet Backbone as a Layer of Defense – **85 Tbps of FlowSpec defense capacity**, provides additional layers of mitigation against volumetric layers 3 & 4 attacks



Tiered Scrubbing Architecture

Escalated to Super or Regional centers when thresholds exceeded, reduces collateral damage



Botnet Takedowns + Rapid Threat Defense

Black Lotus Labs removes ~63
C2s monthly from the Lumen
network, less malicious traffic
hitting customer firewalls. Rapid
Threat Defense blocks bot traffic
before it hits a scrubbing center.

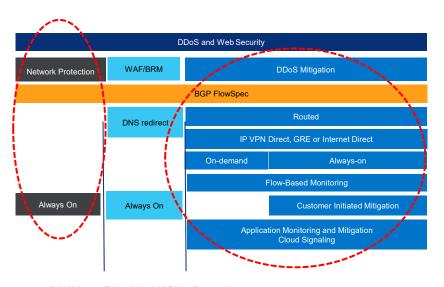


^{*} Telegeography, Global Internet Geography Executive Summary, 2020

Selecting the right DDoS Mitigation Service

Assets protected

- Website
- Data center
- Corporate offices
- Public or private cloud environment



Type of mitigation

- Always-on
- On-demand

Methods of clean traffic return delivery

- Over the top
- Integrated with the internet circuit
- Via private connectivity

Attack monitoring

- Provider-monitored
- Customer-monitored

Mitigation control

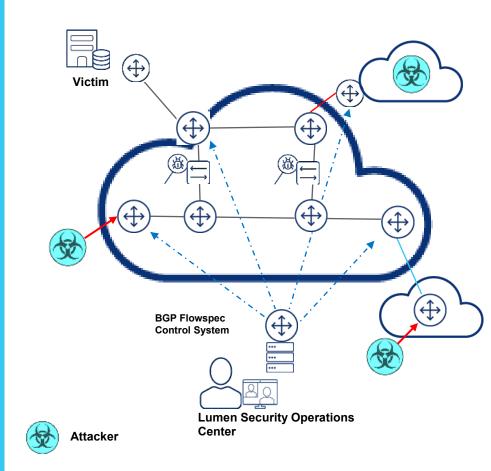
- Customer-initiated
- Automated
- SOC-assisted



Internet backbone as a layer of defense

BGP Flowspec Capability

- Uses BGP Flowspec announcements for an automated ACL rules delivery to Flowspec capable routers across the backbone and edges
- Highly scalable global solution
- Facilitates emergency mitigation.
- Key Benefit: Rapid deployment of rules globally
 - Provides an additional layer of mitigation against large scale volumetric layers 3 and 4 attacks





DDoS 2.0: Mitigation Closer to the Edge Maximize application performance, reduce risk of collateral damage Super Scrubbing Centers Close to where most Internet attacks enter Lumen network **Regional Scrubbing Centers** Handle attacks that originate within the regions Local / Regional Center **Local Scrubbing Centers** Super Center First layer for Always-On customers Minimize the latency through scrubbing centers Security Operations center Attacks are automatically escalated to regional and/or super centers On-net Market when attack size exceeds thresholds Lumen Network owned, leased access and IRU segments, which are not distinguished on this map. Lumen engages in-region carriers to provide services in some markets



Permanent rules on the Network Edge

- Facilities-based Internet services
 providers can add permanent network
 defense rules on the provider edge routers
- Base foundation in a multi-layered approach to DDoS mitigation: it helps reduce the attack surface
- Complements traditional DDoS mitigation service
- Delivered via Network Protection Service

Key Attributes

- · Always-on security control
- Layers 3-4 volumetric attack mitigation
- IPv4 or IPv6 filters, rate limiters, null routes and permanent ACLs
- Additional ACLs on upstream internet backbone routers
- Flow-based monitoring for advanced reporting





Lumen® DDoS Mitigation with Rapid Threat Defense Enables immediate, automatic blocking of attack traffic

- Rapid Threat Defense blocks immediately; a typical advanced scrubbing algorithm can take a minute from detection to blocking.
- Black Lotus Labs threat intel refreshed every 15 minutes
- Increases the data available beyond network-behavioral and vendor-native intelligence
- Integrates and orchestrates threat discovery, correlation, policy and response to automate preventative action
- Expands categories of threat for Lumen DDoS platform response
- High fidelity data: proprietary algorithms plus original threat discovery based on machine learning and Lumen honeynet technologies

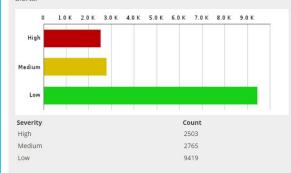


Real-Time Reporting Portal

Peacetime performance and event reporting with extensive attack visibility and historical threat data

Incoming Alerts by Severity

The following table and graph display the distribution of the alerts by severity over the selected time period. The Sightline system detected 14687 incoming alerts.



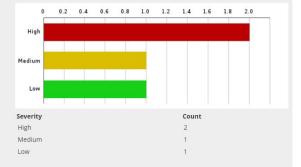
Incoming Alert Misuse Types

The following table and graph display the distribution of the misuse types in alerts over the selected time period. The graph shows the number of alerts where the given misuse type was detected, while the table also shows the misuse types for each type by severity.



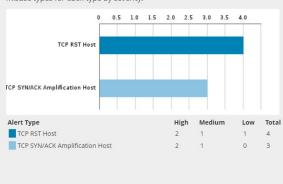
Outgoing Alerts by Severity

The following table and graph display the distribution of the alerts by severity over the selected time period. The Sightline system detected 4 outgoing alerts



Outgoing Alert Misuse Types

The following table and graph display the distribution of the misuse types in alerts over the selected time period. The graph shows the number of alerts where the given misuse type was detected, while the table also shows the misuse types for each type by severity.





Lumen Global Security Operation Centers (SOCs)

Robust visibility and support

- With 8 locations across North America, APAC, EMEA and Latin America, we protect our customers 24/7.
- The same global team charged with protecting Lumen's global infrastructure is monitoring and managing your security services.
- Our global network provides extensive visibility into threats – our SOC leverages this information to protect your assets.
- As a global ISP, we absorb large-scale attacks as part of the day-to-day operation of our global IP infrastructure





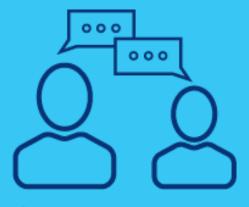


At Lumen, we see more to stop more threats – in real-time. Our global network backbone provides vast visibility into the threat landscape to power our portfolio of security solutions.

Our portfolio provides the ingredients that secure the Lumen platform, applications and data at the edge and a digital buying experience.

We help organizations **simplify security** by embedding protection in network services and automating threat detection and response. We provide original **high-fidelity threat intelligence**, expert consulting and a robust professional services practice to empower today's defenders.





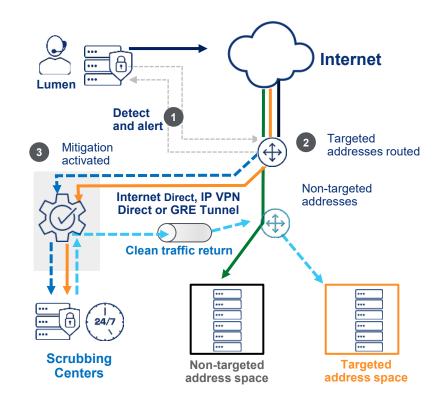
Questions? Appendix for Technical Detail

Lumen® DDoS Mitigation Service

- 1 Detection: Attack identified by Customer or Lumen
- Targeted Addresses Routed: Traffic routed and scrubbed based on service type: Always-on, and on-demand
- 3 Mitigation: Targeted address traffic diverted and scrubbed
- 4 Command & Control server take-downs performed as appropriate

Service Highlights

- Network-based, unlimited mitigation
- Always-on, on-demand, and options
- Route determined by BGP configuration
- Asymmetric traffic flow
- Private connection for forwarding clean traffic
- Volumetric and application layer attack mitigation (Layers 3-7)
- Optional Flow-Based Monitoring (proactive monitoring and alerting)





Clean Traffic Return: Internet Direct Option

Clean traffic return using VLAN trunking over the Lumen IP network

Efficiency and Reliability



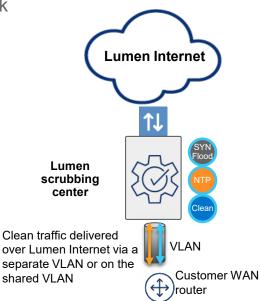
Utilize Lumen Internet



Bandwidth and Capacity



- Lumen[®] Internet service only
- Delivery of clean traffic over Lumen Internet circuit via a separate VLAN or on the same VLAN logical that also delivers the Internet traffic
- Only limitation of clean traffic return is the size of the internet circuit (i.e., up to 100 Gbps)
- · Available with always-on, or on-demand
- Prioritization of clean traffic return over other internet traffic provides efficiency and performance
- VLAN trunks are more reliable than GRE tunnels





Clean Traffic Return: IP VPN direct options

Uses IP VPN as a forward path from Lumen scrubbing centers to customer data center for clean traffic

Simplified Management

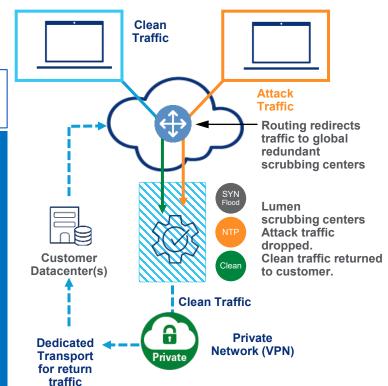
Performance and Reliability



Bandwidth and Capacity



- Provides a more reliable solution when compared to GRE tunnel for forwarding clean traffic.
- Eliminates the need to maintain GRE tunnels to multiple scrubbing locations.
- Available with always-on or on-demand
- No need to adjust TCP MSS, which can have negative impact on certain applications.
- Reduces latency and jitter for clean traffic compared to best effort through GRE tunnel over public Internet.
- Lower cost compared to pure play providers for similar solution when location has Lumen IP services



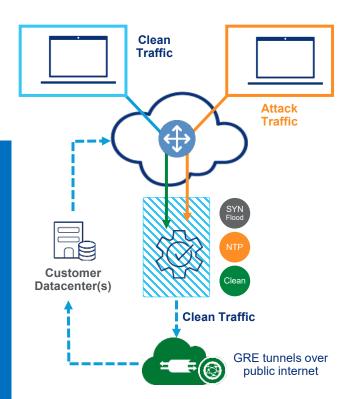


Clean Traffic Return: GRE option

Uses GRE tunnels over public internet as a forward from Lumen scrubbing center to customer data center(s) for clean traffic

Service Highlights

- Network-based, unlimited mitigation
- · Always-on, or on-demand options
- Route determined by BGP configuration
- For customers with a maximum of 3 Gbps of peak inbound clean traffic
- Volumetric and application layer attack mitigation (Layers 3-7)
- Optional Flow-Based Monitoring (proactive monitoring and alerting)
- Carrier-agnostic delivery
- Available for emergency turn-up

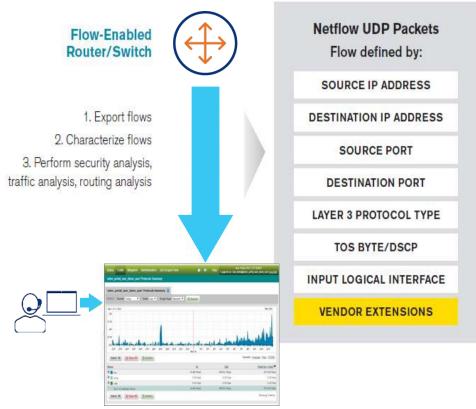




Flow-based monitoring option

Proactive monitoring and alerting

- Monitors customer edge or Lumen routers and detects anomalies and changes in volumetric flows
- Detects layer 3 and 4 DDoS attacks and provides alerts to Lumen SOC and customer
 - Netflow, Sflow, Jflow (Requires SNMP access)
- 24/7 monitoring and alerts backed by SLAs
- Additional forensic evidence for faster mitigation
- Available as an option with DDoS Mitigation service and Network Protection Service





Increased Flexibility With Customer Initiated Mitigation

Enabling customer-initiated BGP route control functionality



- Optional feature: Initiate mitigation via the route announcement to Lumen rather than calling the Lumen Security Operations Center
- Reduce interactions between our Security Operations Center and your security teams
- Available to "always-on" GRE, Internet Direct, and IP VPN Direct customers.
- Oynamically advertise the preferred prefixes into the clean return tunnels
- The advertised prefixes automatically propagate from the Lumen scrubbing infrastructure to the Internet
- Lumen® DDoS Mitigation Service automatically begins scrubbing advertised traffic
- Traffic load sharing (not balancing) is supported for customers with diverse connectivity from the same site



DDoS Mitigation offer

PRICING STRUCTURE

Protected Address Space

- Up to a total of 256 blocks of /24 IPv4 or /48 IPv6 included
- Unlimited Protected Subnets (Fixed MRC, NRC)

Clean Traffic Return

- Bandwidth
- MRC
- NRC

Service Type

- Always-on
- On-demand
- GRE / IP VPN Direct / Internet Direct

Optional add-on components

- Flow-Based Monitoring (Fixed MRC, NRC)
- Cloud Signaling (Fixed MRC, NRC per device) Requires DDoS mitigation appliance at customer's location
- Emergency Turn-up (NRC)



Lumen® DDoS Hyper-DDoS Mitigation Service Feature Comparison:

Features		DDoS Hyper	DDoS Mitigation Service	
Self-Serve via Portal		✓		
Type of Mitigation	Always-On		✓	
	On-Demand	✓	✓	
	Over the Top/GRE – Lumen* or Third Party	✓	✓	
Clean Traffic Return Method	Integrated with Internet Circuit		✓	
	Private Connectivity (IP VPN)		✓	
Attack Manitaring	Lumen Network		✓	
Attack Monitoring	Customer CPE	✓	✓	
Attack Size Mitigation	Unlimited	✓	✓	
	Automated	✓	✓	
Mitigation Control	Customer-Initiated		✓	
	SOC-Assisted	✓	✓	
	Protection against most common attacks with basic customization	✓	✓	
Global SOC Support 24/7	Full customization for attack mitigation		✓	
	Priority handling		✓	
IP Protection	IPv4	✓	✓	
	IPv6		✓	
Rapid Threat Defense	Black Lotus Labs-provided countermeasures	✓	✓	
Contract and billing currency	U.S. only	✓	✓	
Contract and billing currency	Global, with some restrictions		✓	
Professional Security Services Assistance *Not supported by Lumen M	Optional, designated security consultant for runbooks, analysis and reporting tailored to customer business needs	✓		

*Not supported by Lumen Managed Router

Questions?

