



Velum



A New Standard in Cyber-Protected Remote Access

The secure alternative to a virtual private network (VPN) connection, Velum is a session-less, private networking software protocol that delivers secure, concealed communication and data control. It is purpose-built for environments that cannot afford exposure, downtime, or administrative complexity.

About Us

Deployed Global Solutions (DGS) is a veteran-owned business delivering innovative solutions to protect your information, systems, and personnel.

With advanced technology capabilities, including cybersecurity, operational technology and secure communications, we rapidly deploy tailored solutions to meet your mission.

Industries We Serve

- Cybersecurity
 - Defense
 - Energy and Utilities
 - Facility Infrastructure
 - Finance
 - Healthcare
 - Internet of Things (IoT)
- Operational Technology / Building Automation Systems*



Transmission Security (TRANSEC) for Remote Access

Session-less, cryptographically secured packets eliminate tunnel visibility and outclass VPNs in metadata protection



Reduced Cyber Attack Surface

What can't be seen can't be targeted



Microsegmentation

Cryptographically separated networks



Reliable Cyber Risk Reduction

Reduced operational exposure with lower total cost of ownership

Department of Defense (DoD) Laboratory Validated

Federal Information Processing Standard (FIPS) 140-3 Validated

Commercial Solutions for Classified (CSfC) Compliant

International Society of Automation (ISA) / International Electrotechnical Commission (IEC) 62443 Compliant





Today's Challenge

Conventional cybersecurity tools were built for a different era. Critical systems now face threats that bypass firewalls and exploit the visibility of VPNs. Modern protection requires a new approach.

The Velum Solution

Remote Access Without the Risk

While most solutions rely on VPNs, Velum takes a different approach. It enables encrypted, session-less access with no open tunnels, no static links, and no observable paths for attackers to exploit.

Concealed, Secure Data

Velum hides the existence of your network activity and the fact that communication is occurring. It generates randomized, encrypted traffic that blends with synthetic data and relays to mask intent and direction.

Path-Resilient Networking

Velum supports Ethernet, Wi-Fi, cellular, and satellite with seamless failover. Its self-healing relay network adapts in real time, maintaining secure communication even if paths go down.

Seamless, Native Interoperability

Velum connects systems as if they are one hop away – regardless of location. There's no need for complex routing or network redesign. Any device, any data, anywhere – Velum makes global interoperability simple.

Simplifies Remote Access Control

Whether you're adding a new site or onboarding remote users, with Velum, even non-cyber experts get it right – every time.

Strengthen Security while Simplifying Scale

- Built for critical facilities and remote operations
- Eliminates reliance on VPNs and exposed access points
- Operates across cloud, on-prem, and edge environments
- Secures communications even in flat or legacy networks
- Deploys in minutes – not hours or days
- Reduces equipment, licensing, and operational overhead
- Hides systems from detection even when they are transmitting data



	VPN Session		Velum Session-less Technology		
	<ul style="list-style-type: none"> - Sends public key unencrypted during key exchange - If session key is compromised, all traffic is exposed 		<ul style="list-style-type: none"> - Perfect forward secrecy - compromise of one key does not affect past or future packets - Public keys are never sent unencrypted - only known, trusted keys are used 		
	VPN	IPSEC	Velum	Velum with STRATOS SD-WAN	Velum with STRATOS SD-WAN and Synthetic Noise Floor
What it is	<ul style="list-style-type: none"> • Both client and server have their own public / private key pair 	<ul style="list-style-type: none"> • Both client and server have their own public/ private key pair • Supports public key infrastructure (PKI) 	<ul style="list-style-type: none"> • Ephemeral key encryption for each packet - no session keys, fully session-less • One unique public-private key pair per hop, per packet for encryption and authentication 	<ul style="list-style-type: none"> • Ephemeral key encryption for each packet - no session keys, fully session-less • One unique public-private key pair per hop, per packet for encryption and authentication • Self-healing meshed network with cryptographically randomized routing - no packet path ever repeats 	<ul style="list-style-type: none"> • Ephemeral key encryption for each packet - no session keys, fully session-less • One unique public-private key pair per hop, per packet for encryption and authentication • Self-healing meshed network with cryptographically randomized routing - no packet path ever repeats • Synthetic data noise to match desired data environment
Cybersecurity Attribute	<ul style="list-style-type: none"> • Identifiable session 	<ul style="list-style-type: none"> • Identifiable session 	<ul style="list-style-type: none"> • No identifiable session • Obfuscation 	<ul style="list-style-type: none"> • No Identifiable session • Advanced obfuscation 	<ul style="list-style-type: none"> • No identifiable session • AI-resistant obfuscation
Cybersecurity	<ul style="list-style-type: none"> • No Zero-Trust 	<ul style="list-style-type: none"> • No Zero-Trust 	<ul style="list-style-type: none"> • Zero-Trust - reduction of attack surface 	<ul style="list-style-type: none"> • Zero-Trust - advanced reduction of attack surface 	<ul style="list-style-type: none"> • Zero-Trust - AI-resistant attack surface

Why Use Velum for Secure Remote Access?

There is Nothing Private About VPN Sessions

- One single persistent symmetric session visible to attackers
- If the session key is compromised, all traffic is exposed

Velum Provides True Zero-Trust Privacy

- Hidden fact of communication
- Traffic correlation resistance
- Key compromise resistance
- Resilience to traffic analysis
- Quantum attack resistance
- Resilience to replay attacks
- Active attack resistance
- Deep packet inspection and SIGINT evasion