



## SOLUTION SHEET

# Smarter DDoS Protection

## UltraDDoS Protect

Distributed Denial of Service (DDoS) attacks represent a constant and persistent threat to the operations and security of every organization that has a digital presence. According to our research, an organization's chance of suffering a DDoS attack is 80 percent, and when attacked, that same percentage can expect repeated assaults. But the damage doesn't end there: Nearly half of reported attacks are conducted in concert with a breach, often leaving behind virus infections, data theft, malware activation, and now – ransomware attacks.

Mitigating the DDoS attacks of today and tomorrow requires more than just technology. UltraDDoS Protect provides you with powerful analytics, top-tier DDoS mitigation, and layer 7 protection that allows you to suppress threats before they become attacks. UltraDDoS Protect is relied upon by companies of all sizes to keep their infrastructure and proprietary information safe and available.

### More Than Bits and Bytes, It's Business

In addition to business disruption and brand embarrassment, attackers can have many motives for launching assaults. DDoS assaults are commonly used to obscure and obstruct attempts to figure out who's attacking, and what they're going after. Such activity is referred to as a "smokescreen," and in today's world with so much at stake, you can't take chances – it's imperative to detect and defeat DDoS attackers as quickly as possible.

UltraDDoS Protect is the DDoS protection that your organization needs. Built on a massive global mitigation platform using best-of-breed technologies, time-proven best practices, and unparalleled expertise, Vercara delivers a top-tier solution leveraging three proven principles of DDoS protection.

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## THREE PRIMARY PRINCIPLES OF DEFENSE

### 01) Speed

Without quick DDoS detection and correct reaction, organizations can find themselves at the mercy of attackers. When the catastrophic can happen in an instant, automation and control are needed to stay ahead of impact.

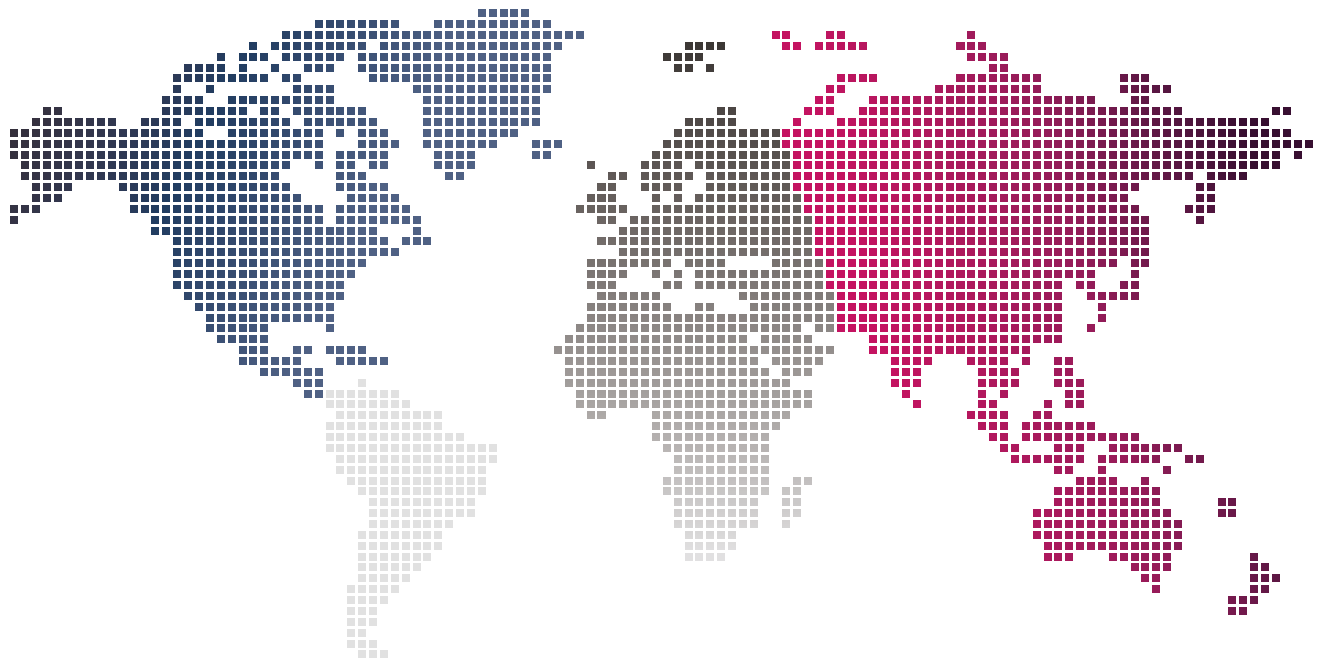
### 02) Flexibility

Over-investing in DDoS protection can draw funds away from other security priorities and under-investing can leave you vulnerable. You need options and flexibility to put the most appropriate level of defenses in place against DDoS attacks.

### 03) Experience

DDoS attacks have specific telltale signatures and behaviors. An expert eye and experienced partner in identifying and suppressing DDoS attacks adds the edge needed during a moment of attack to keep it from becoming a crisis.

## Global Picture of DDoS Lethality in the Connected World



### NORTH AMERICA

**76%** of organizations were attacked  
**29%** were attacked six or more times  
**21%** reported malware activation after a DDoS attack

### EMEA

**76%** of organizations were attacked  
**39%** were attacked six or more times  
**24%** encountered malware after a DDoS attack

### APAC

**75%** of organizations were attacked  
**45%** were attacked six or more times  
**30%** reported ransomware after a DDoS attack

STATISTICS BASED ON VERCARA RESEARCH



# UltraDDoS Protect Trusted by Global Brands – Because it Works

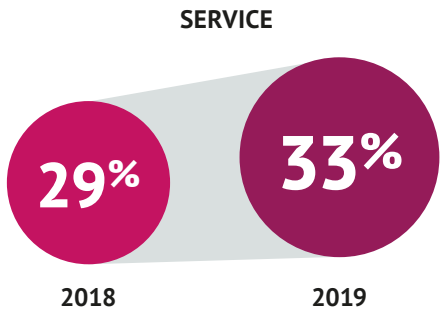
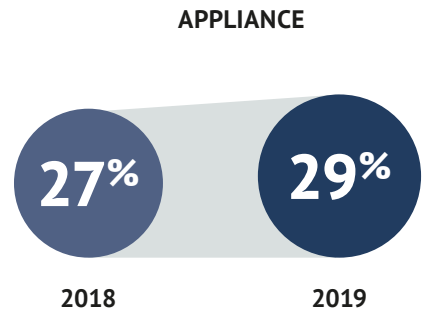
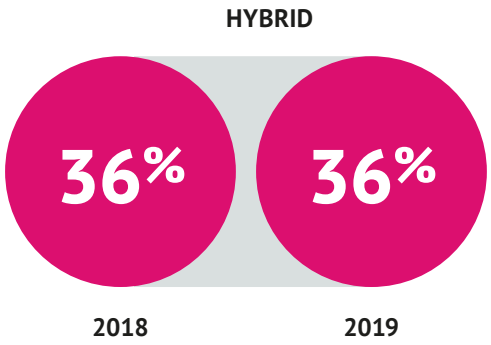
UltraDDoS Protect is a purpose-built DDoS mitigation solution with deployment options to fit the needs of all organizations. Whether your requirements demand on-premise hardware, cloud-based, or hybrid mitigation capabilities, Vercara offers the broadest and most flexible array of DDoS protection services to fit you.

Compared to previous investment responses, it's clear that organizations are realizing value in preparing before the strike. With options that include appliance, cloud, WAF, or hybrid combinations, UltraDDoS Protect provides effective DDoS mitigation.

## DDoS Protection to Fit the Needs of All Organizations

- Automation that moves attacks into mitigation quickly
- Flexibility that aligns defenses to strategies
- Always ready options for DNS, BGP, and hybrid configurations
- Specialized expertise eliminates need for in-house resources

### INVESTMENTS IN DDoS DEFENSES





## CARRIER-CLASS DDoS MITIGATION PLATFORMS

- Massive network of dedicated scrubbing capacity
- OSI Layer 3, Layer 4, Layer 7 and IPv6 capable
- Globally positioned scrubbing infrastructure

## EXTENSIVE TECHNOLOGY AND EXPERTISE

- Multiple best in class DDoS mitigation vendor technologies including Arbor, Cisco, Citrix, Juniper, HP, Vercara
- Multiple Tier 1 Internet
- Network Providers
- Expert best practices and countermeasure library

## NON-STOP FULLY MANAGED HYBRID DDoS MITIGATION

- Best of both worlds: On-premise hardware + cloud-based protection
- Best-in-breed solution from Vercara and Arbor Networks
- Non-stop protection from non-stop threats
- Fully managed service and contingency failover option

## UltraDDoS Protect Detection and Alerting

Avoiding the costly impact from DDoS attacks requires constant vigilance. To help alleviate the burden off of you and your team, Vercara offers quick Detection and Alerting capabilities. Detection and Alerting monitors and informs you of potential DDoS attacks and can automate mitigation based on alerts. Or, depending on your preference, you can automate the mitigation process to deliver high-velocity protection when you need it most.

## On-Demand

A high-capacity, cloud-based DDoS protection service, UltraDDoS Protect scrubs malicious traffic away from your infrastructure, defusing the large, complex attacks that make headlines every day and threaten your operational stability. Powerful automation allows you to activate on-demand cloud protection through means that include DNS Redirection, BGP Redirection, and API-triggering. The result is incredibly fast response against DDoS trouble when you need it most.

## Always On

Vercara offers several options to keep your traffic in an always-ready state: proxied, routed and hybrid.

The UltraDDoS Protect hybrid option features the best-in-breed Arbor APS DDoS mitigation appliance, which combats attacks locally, without a moment's delay. When attacks exceed local capacity, Vercara fails over your traffic to the UltraDDoS Protect cloud and manages the response until the danger passes. Best of all, it is a fully managed service, including remote management of your Arbor box. Vercara monitors, detects and responds to DDoS attacks for you, so you can commit resources to higher priorities.

## Vercara UltraWAF™

Together, UltraWAF and UltraDDoS Protect provide a cloud-based Always-On approach to quickly stop the largest DDoS and most sophisticated web application threats without reducing network performance or adding additional levels of complexity to your existing security strategies.



## Advantage, Automation and Flexibility

Automation is the key to speed and it's crucial to gaining an advantage against DDoS attackers – especially those with an appetite for breach. Flexibility is the ability to right size the DDoS protection investment. Since no two organizations have the same requirements, the Vercara combination of automation and flexibility helps tighten and exact defenses that mold to specific defense strategies – all while avoiding expensive customization and long deployment periods.

### DNS/BGP Customer Triggered Mitigation

Standard configurations that allow a UltraDDoS Protect customer to automate mitigation in either DNS redirection or BGP connection service configurations. Attack traffic will spark mitigation for the targeted host reducing the time-to-mitigation and improving reaction times.

### API-Triggered Mitigation

Available with the Vercara standard on-demand BGP service and allows customers to call the UltraDDoS Protect API to begin their mitigation without intervention from Vercara. The ability for this API to be leveraged with other security services creates new potential stable state improvements and protective actions automatically.

### Detection and Alerting Triggered Mitigation

Customers direct their NetFlow data to Vercara for constant analysis and mitigation triggers automatically when an attack is detected.

For those short on expertise and staff, this defense option provides a valuable extension to stretched security operations.

### Cloud Signaling Triggered Mitigation

Endpoint detection based upon bits per second and/or packets per second thresholds that, when exceeded, automatically initiates BGP redirection mitigation.

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## Your Advantage – Insights and Control

Being in control means knowing what's going on. UltraSecurity puts the power of global mitigation in your hands. It provides a personalized experience, enables greater automation, and more easily provides real-time information that you can quickly act upon.

Vercara makes sure that you have the information and insight needed to protect your online presence and brand reputation.

### UltraSecurity Portal

**Displays attacked protocols in an easy, informative way**

- Puts near real-time and historical information at your fingertips
- Empowers you to route and scrub traffic without cumbersome interaction
- Delivers insights into traffic statistics, including top talkers and top routes
- Shows D&A Alerts information including attacked origin server IP, type of attack, and traffic type

Precise insights, configurable elements, automated mitigation, and power that you can trust.

Capabilities and control are what Vercara gives you to keep DDoS attackers at bay and help keep your organization safe.

### Holistic DDoS Protection

Vercara can provide UltraDDoS Protect to defend standard TCP-based applications, including websites, email servers, APIs, databases and more. Providing coverage against dozens of protocols and the widest array of attack vectors, UltraDDoS Protect helps you protect your entire Internet ecosystem. For even more assurance, consider UltraDNS® which provides superior DNS

## THREE WAYS VERCARA PROTECTS YOU

- 01) MONITORS**  
Keeps vigilant watch to identify and detect legitimate threats.
- 02) AUTOMATES**  
Ensures attacks are blocked quickly and effectively.
- 03) COMMUNICATES**  
Alerts, insights, and reports that keep you informed.

services and DDoS protection. Combined, these two services ensure uninterrupted traffic flow to your critical online properties without the need to manage multiple providers and solutions.

### Powered by People, Proven by Practice

Vercara operations are fully manned 24/7 by senior-level DDoS mitigation professionals. The counter-measures, processes, and practices built from more than a decade of thwarting DDoS attacks makes Vercara your best partner to monitor and respond to threats - even flexibly changing defenses as attackers assault using multiple tactics from multiple vectors with multiple motives.

**VERCARA**  *Securing the Online Experience*

Find more information at:

[vercara.com](https://vercara.com)



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