

Proactive Privacy Network

Augment or replace existing WAN connections and reduce cost, while increasing privacy, security and flexibility.

The Challenge

Privacy vs. Security

Most people have a general understanding that security means protection. For organizations, security demands the protection of customer information and an organization's intellectual property from unauthorized or illegal attempts to access, steal or corrupt the data. Organizational privacy policies include processes that define what individual data can be collected, what are the permissible uses, with whom might it be shared and how long the data should be retained.

Network privacy is a newer and often overlooked concept of an organization's right and need to protect their identity, intellectual property and customer data while doing business over the Internet.

With a significant migration to the cloud and subsequent need for network risk management, network privacy has become a significant issue. Privacy is integral to a truly secure network because it prevents exposure of the identity of the network user. **If they can't find you...they can't attack you.**

It is crucial that information security, privacy and data protection be addressed comprehensively at the design phase. Network privacy solutions need to be **proactively** implemented.

Cloud Connectivity

WAN traffic is continuing to grow over 200 percent on a yearly basis. At the same time, MPLS bandwidth pricing, unlike decreasing cloud pricing, has remained fairly constant, further supporting the shift to SD-WAN solutions. Purchasing lower cost bandwidth is a great way to handle the rise in overall WAN traffic without breaking the bank.

SD-WAN solutions have revolutionized how commercial and government entities manage their enterprise networks. While SD-WAN solutions have made the enterprise's use of their WAN more efficient, it has not solved some of the fundamental performance, privacy and security issues.

- ✦ Typical enterprise network connectivity is fixed, static, easily located and thus, more vulnerable to attack.
- ✦ The explosion of enterprise bandwidth has rendered traditional WAN transport technologies suboptimal and expensive.
- ✦ You must protect your network, while improving performance and securing communications between the enterprise, the branch, the Internet and the cloud.

Reduction in Total Cost of Ownership (TCO) is critical for the CIO/Network Owner. Privacy and Security are critical for the CISO/Network Security Owner.

NetAbstraction's Response

NetAbstraction provides a carrier-class Proactive Privacy Network that protects your identity and provides additional security for your communications on the Internet and in the cloud.

NetAbstraction's network privacy solution never alters data, but rather the pathways that transport the data to protect both the data and the organization's identity. Network privacy becomes an additional layer of protection that significantly increases a would-be attacker's efforts to initially locate the desired data.

If they can't find you... they can't attack you!™

NetAbstraction's patented design obscures and varies network pathways while protecting customer identities and systems via implementation of Software-Defined Network (SDN) virtualization across multiple providers.

NetAbstraction's managed network solutions address the need to:

- ✦ **augment/replace existing MPLS and dedicated circuit connections**
- ✦ **offload MPLS and dedicated circuit bandwidth**
- ✦ **dynamically provision secure network connections on a worldwide basis**
- ✦ **disguise organizational resources and communicate with non-traceable connectivity**
- ✦ **increase privacy and security for your SD-WAN adoption strategy**

NetAbstraction Overview

NetAbstraction provides secure, varied and non-apparent network connectivity, with a range of identity management and persona attribution options to alter or reduce the cyber-attack profile of your network.

In addition, NetAbstraction augments the multi-layered security capabilities provided by the commercial cloud providers, including implementation of dynamic security policies to help ensure that malicious traffic is not allowed to enter the network.

Network Connectivity

- ✦ **MPLS
Alternative/Replacement**
- ✦ **Enterprise VPNs**
- ✦ **Private SD-WAN**

Capabilities

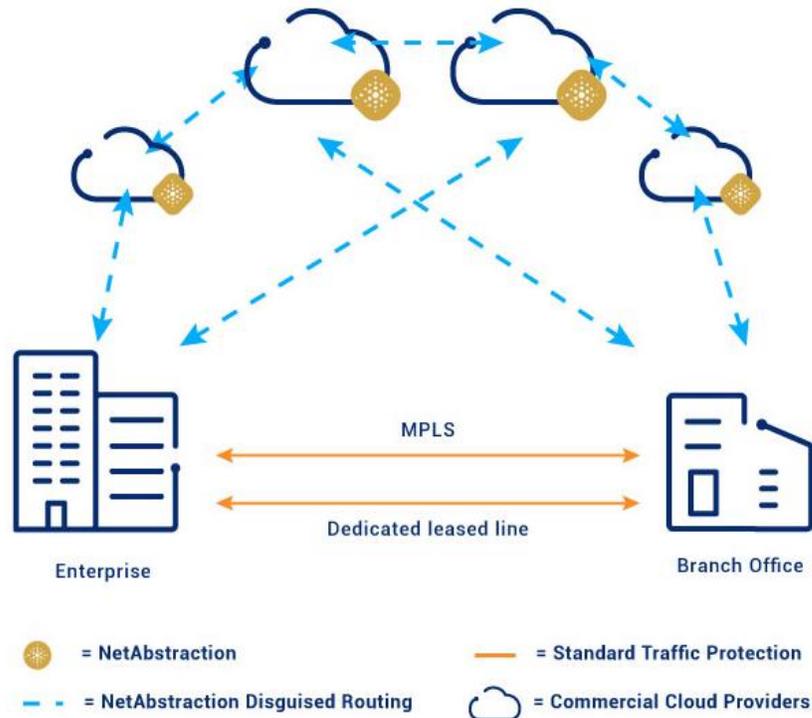
- ✦ **Disguises and protect network communications** by reducing your organization's attack surface.
- ✦ **Improves performance** with intelligent network routing decisions.
- ✦ **Helps manage network TCO**, and associated implementation and maintenance costs.
- ✦ **Increases agility and creates redundancy** – dynamically shifts network connections on a global basis, within and across multiple providers.
- ✦ **Manages your network and data** with complete insight, access and control.

Features and Benefits

- ✦ **Privacy and Security** - Disguises and protect network communications by reducing/altering your organizations attack surface.
- ✦ **Total Cost of Ownership (TCO)** – Manages TCO by leveraging cost-effective secure and private Internet-based transport.
- ✦ **Performance** – Enjoy low-latency performance via intelligent network routing decisions.
- ✦ **Scale** – Dynamically provisions network connections on a global basis within and across multiple providers.
- ✦ **Interoperability** – Seamlessly integrates with existing technology and security stacks.

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ENTERPRISE CONNECTIVITY WITH NetAbstraction



How It Works

Network Privacy-as-a-Service disguises and protects WAN communications between the enterprise, the branch, the Internet and the cloud.

NetAbstraction is a value-added service above and beyond the current carriers, providing an additional layer of privacy and security. We are a plug-and-play enhancement and/or alternative to your current WAN services (dedicated leased lines, MPLS circuits, and/or Internet connections). As an SDN overlay, we are able to leverage the best network infrastructure available in terms of performance, reliability and cost, and provide additional privacy and security as a carrier-class alternative to current solutions.

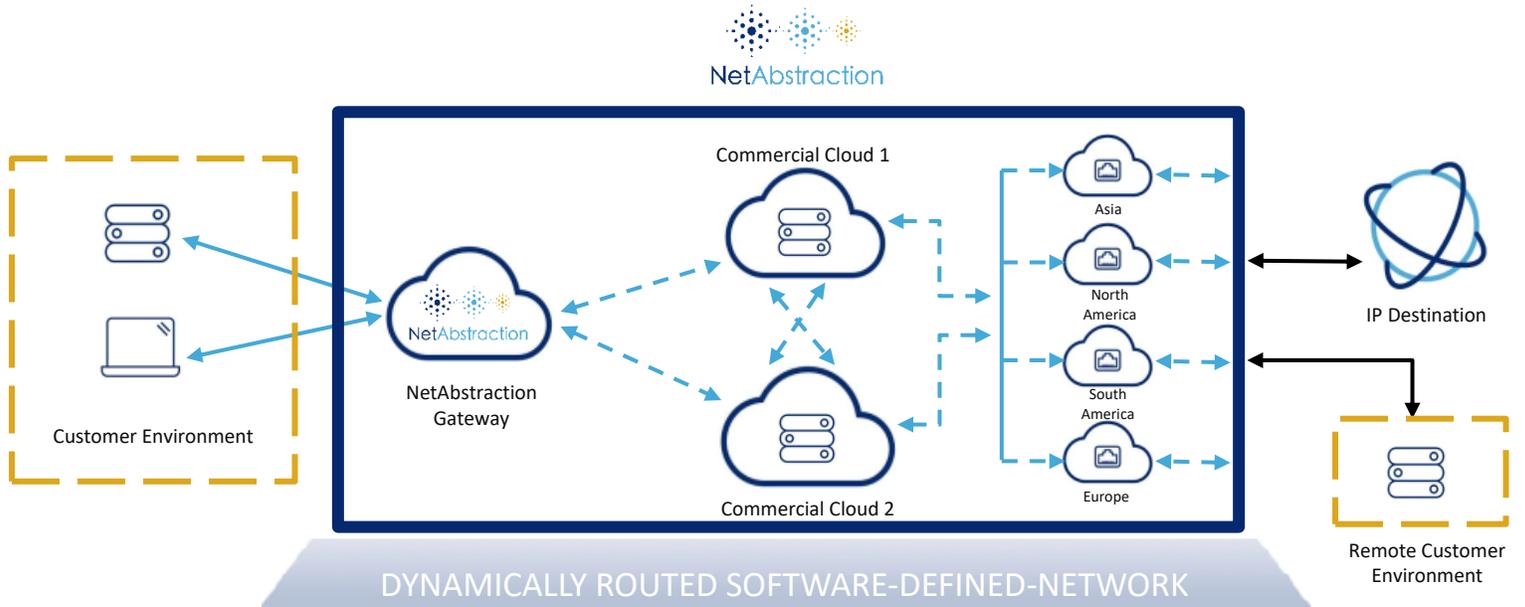
We do not require any a hardware/software to be installed in your network and the support model is consistent with your current WAN operations. There will be no increase in resources needed to install or maintain NetAbstraction over your current WAN services.

The NetAbstraction service's operational design is based on using intermediaries (cutouts or surrogates) to acquire the commercial infrastructure used to implement the network. None of the infrastructure has been acquired in the name of NetAbstraction (to reduce possible targeting of publicly known services). We protect our identity and also yours.

Cloud infrastructure is acquired using identity management and protection domain expertise that NetAbstraction leadership gained through our extensive background in the U.S. Intelligence Community. We are cloud agnostic and always implement our network communications pathways across at least two different cloud provider networks.

Our patented ability to control the network routing increases network privacy and security, enhances performance and creates isolated channels of communications. **If they can't find you...they can't attack you.**

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Mature SDN implementation: carrier-class and cloud agnostic

About Us



NetAbstraction protects identities and systems by intelligently selecting and obscuring global network pathways of the Internet. Our company name, NetAbstraction, is derived from a very simple concept in the real world and in computer programming. Abstraction's main goal is to handle complexity by hiding unnecessary details from the user.

Really simple - **abstraction** is hiding stuff! The philosophy of NetAbstraction, Inc. is to provide privacy and security to our customers' network by protecting their identity.

Developed from roots in the U.S. Intelligence Community, NetAbstraction's technology is born from our expertise in designing, creating and implementing non-traditional and non-attributable telecommunication networks in support of critical U.S. Intelligence Community missions.

Now, that same unparalleled technology is available to enterprises that need to protect their information, people and networks from the growing pool of cyber attacks.

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