portnox™
boundlessly smart

DATA SHEET

THINK SECURITY AND PRODUCTIVITY CAN'T WORK TOGETHER?

Think again.

Portnox Elastic Networking Solution

The fixed physical boundaries of traditional networks have been blurred with the advent of cloud services, virtual systems, wireless technologies and a burgeoning trend of bring-your-own-device (BYOD). With the workforce becoming increasingly mobile, many are turning to solutions such as VPN, which give only limited access to network facilities in an attempt to enforce corporate security policy, and in doing so, limit the productivity of the employee. An increasing number of businesses are adopting hybrid models ,using cloud or virtual services even though these access methods may compromise the integrity of their IT security systems.

It is becoming clear that NAC solutions are not keeping up with network expansion rates, usage habits or user characteristics, leaving network administrators to face the challenge of maintaining an uncompromising level of security while providing optimal network services to employees.

The Elastic Networking solution

A fundamental shift requires an all-encompassing solution. Imagine a world in which every organization can connect to any employee, remote office or any required service from anywhere in the world, with full and transparent access to the corporate network (layer 2) while enforcing the organization's defined security policies. Many have claimed that this scenario is impossible, particularly in terms of access and specifically in terms of NAC. However, we have the solution that challenges this reality and we call it Portnox Elastic Networking.

Portnox Elastic Networking offers a revolutionary solution for managing access control. It enables the organic network layer of the organization to be stretched to include remote offices and workstations essentially transforming them into local points regardless of their physical location, their connected devices or base platform. Existing service providers can be safely used as all the network traffic is bridged to a central location where it is managed, filtered and controlled.

KEY FEATURES:

Whether you manage a remote workforce, or operate a cloud environment, Portnox enables a direct access to all the organization's services and resources with full visibility and control for every activity:

- 100% visibility and control of all connected devices
- Extended authentication of each component that attempts to connect to the network
- Extended enforcement of security policies on every device, within the organization's physical network or in a remote environment
- Detailed reports on any access attempt including time, usage and location parameters

How it works?

Portnox Elastic Networking is designed to stretch an “Ethernet-like” layer 2 connection from the local network across to remote sites, mobile users, PaaS and IaaS virtual environments. As part of your layer 2 LAN, remote locations actually become an integral part of your local network including direct access to any service provided in your IT environment. The layer 2 connection also provides full visibility and control of every activity within a remote or virtual environment. With this in place, you are able to monitor activity, enforce security and ensure compliance with common corporate policies.

Example: An organization has ten remote sites; each one is connected to a different ISP or carrier. The Portnox Elastic software, installed on a virtual appliance or Portnox Knoxer appliance, establishes layer 2 bridging over IPSec encapsulation Each remote-site client, which is attached to the bridge, is authenticated and controlled by the main Portnox server as if it was physically attached to a port at the main office. With Portnox Elastic Networking, all the sites are routed to a single gateway, eliminating administrative overhead or the need to maintain multiple subnets, routers and different security policies.

With Portnox Elastic Networking you can:

Mobilize your workforce with ease and flexibility while increasing your organization’s productivity and control:

- Provide direct access to all the organization’s IT services and resources regardless of geographic location.
- Increase management and access control of the organic network through full monitoring of all devices operating within the organization.
- Enforce uniform security and control over every device, regardless of location.
- Enable maximum productivity for remote employees.
- Reduce operational complexity by integrating the remote office into the local network environment.
- Save on the establishment and maintenance of remote sites.
- Manage and control offshore locations.
- Avoid ecosystem lock-in.

Minimum Portnox System Requirements:

SOFTWARE	HARDWARE*
Operating System: • Microsoft Windows Server 2008 R2 **Database:** • Microsoft SQL server 2005 • Microsoft SQL server 2008 R2	**1 CPUs Dual Core Xeon 3.x** • Min of 4GB RAM • 72 GB of disk space • Single network adapter 100/1000 knoxer system requirements: **1 CPU core Xeon 3.x** • 512MB of RAM • Dual network adapter 100/1000 * Available also as virtual appliance

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