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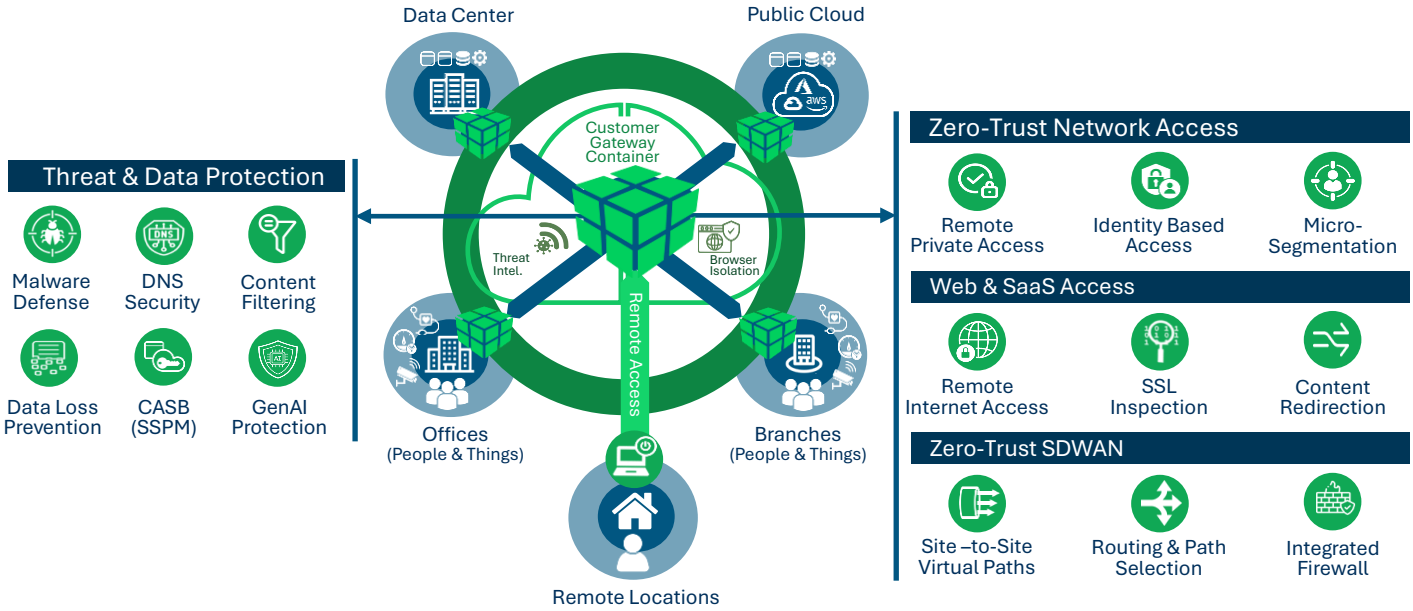
SASE, Finally Unified

Zero-Trust SD-WAN Solution

SD-WAN, Security & Firewall: Finally Unified

Next-Gen Zero Trust SD-WAN

The convergence of networking and security is a cornerstone of SASE. Unfortunately, first-generation SD-WAN solutions provide the networking capabilities to connect branch sites and data centers but lack an integrated security stack. Alternatively, cloud-based SSE platforms have loosely integrated SD-WAN capabilities that are not natively integrated or require connections to traverse the cloud security service first to benefit from malware and data loss prevention. The iboss Zero Trust SASE platform with natively integrated SD-WAN changes the game by completely unifying network, security, and logging capabilities into a single unified platform. This includes extending complete security and logging capabilities from the cloud directly into locations via iboss onsite gateways. This ensures all capabilities available throughout the cloud service are available onsite, including creating secure site-to-site connections over commodity broadband. The result is increased security, increased visibility, decreased complexity, reduced costs, and an exponentially better end-user experience.



To create secure SD-WAN connections between two sites, administrators simply log into the single unified iboss cloud administrative interface and select the sites that should be connected. The platform automatically handles traditional networking complexities such as BGP and failover, making it possible for anyone to quickly connect branch offices to a data center or cloud platform such as AWS. All security capabilities, including HTTPS inspection, deep content analysis for malware defense and DLP, and detailed logging, are fully integrated alongside secure and ultra-fast site-to-site connections. All capabilities are available throughout all sites with security close to devices and users.

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Iboss Zero-Trust SASE: Solution Overview

Connecting People	Protecting Connections	Connecting Locations

Unified Service Management: All Services share common Workflows, common Policies & common Visibility

Replace Vulnerable Legacy VPNs with a painless migration to iboss Zero-Trust Secure Access

Reduce Complexity · Protect Anywhere · Simplify IT · Reduce Risk

Save Costs & Elevate Branch Business Continuity with the adoption of iboss Zero-Trust SD-WAN

Quickly & Easily Eliminate Reliance on VPN's

Private Access at No Additional Cost to Internet Access

iboss Zero-Trust Secure Access Unifies Private & Internet Access into a single ZTNA service offering

Extend iboss Zero-Trust Access into all Offices

With iboss Unified SASE Edge, extended to the Branch

Provide direct access to office-based resources and establish ZTNA-brokered enclaves within the Office

Choose where to apply Zero-Trust Threat Protection

Within iboss Cloud, at the Customer-Edge, or both

Offers maximum flexibility for customers in highly-regulated sectors that need Security at all Network Edges

Simplify Compliance & Governance, Reduce Risks

Consistent Protection & Visibility at all Critical Network Edges

Deliver a next-generation Security Perimeter that provides protection Closer to the Users & Closer to the Apps

Renovate Existing Branch WAN Connectivity

Quickly & Easily consolidate Branch Networking & Security

Combine SD-WAN and Security to deliver Direct Internet Access (DIA), In-Office & Site-to-Site Protection

Stretch the power of iboss Cloud to all Borders

Rapidly Deploy & Expand the Global Reach of the Network

Deploy iboss Gateways (Physical or Virtual Instances) into Data Centers, Offices, Branches, and Public Clouds

Security Closer to The Users, Closer to the Apps

100+	3.1Tbps	150B+	7B+	20M+
Global Pop's	Aggregate Bandwidth	Daily Secured Transactions	Daily Threats Prevented	Active Protected Users

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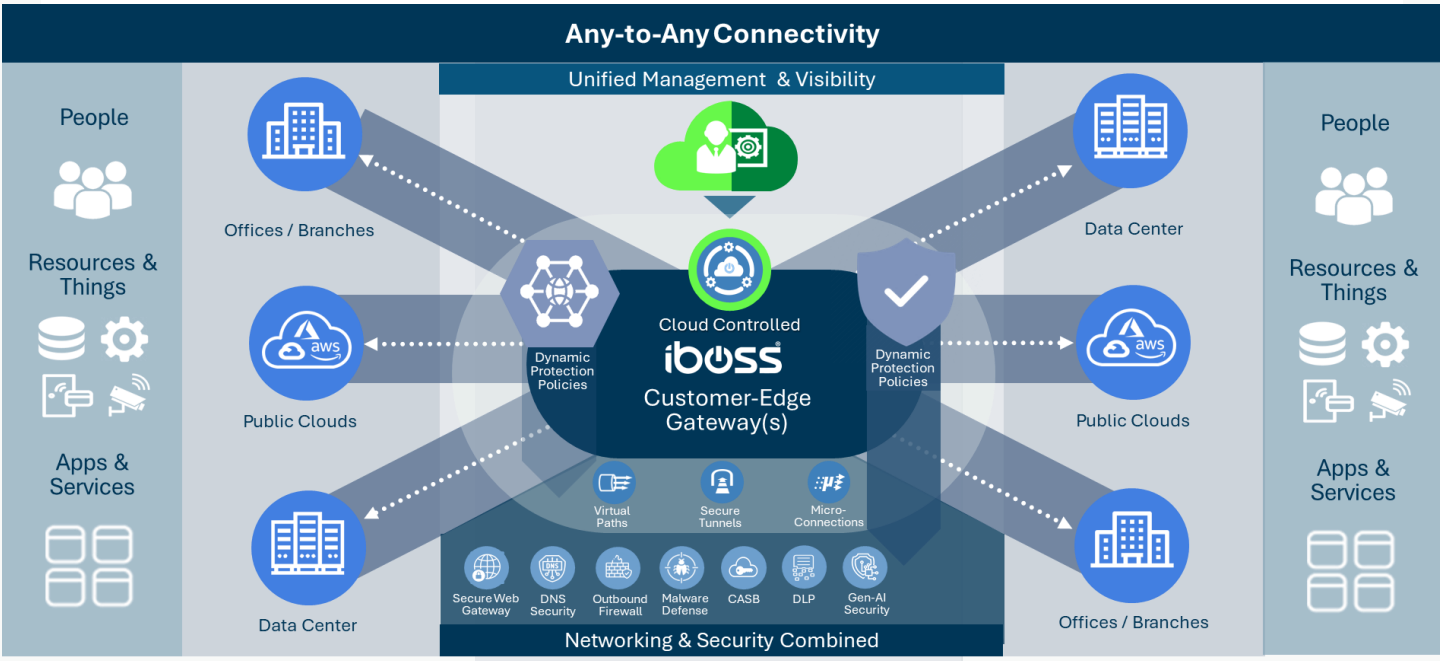
iboss Zero-Trust SDWAN: Secure Any-to-Any Connectivity

Introducing iboss Zero-Trust SDWAN

The iboss Zero-Trust SDWAN solution is 100% natively integrated into the iboss Zero Trust SASE platform. SD-WAN is part of an extensive set of capabilities within iboss gateways that also contain a complete security and logging stack. Gateways throughout the iboss cloud SASE platform have feature parity with iboss gateways deployed onsite, ensuring the best SD-WAN topology for any scenario while ensuring simplicity, increased security, and reduced costs. The iboss SD-WAN solution also includes:

- 'Virtual Paths' for Site-to-Site and Site-to-Cloud connections - Permitting dynamic path selection and traffic steering across the underlying links, promoting enhanced user experience & Branch business continuity.
- Small Branch Office Gateway Appliances - Specifically designed to bring security to small & medium branch offices



Top-3 Takeaways

1. **Networking & Security, Unified:** Extends iboss Cloud Security into each location.
2. **Cloud-Managed SDWAN:** Extends Site-to-Site connectivity using Virtual Paths.
3. **SASE-wide Common Policies:** Unified Security Policies across Secure Access & SDWAN.

Example Use Cases (Networking & Security)

- **WAN/SD-WAN Refresh:** Transform your existing WAN with next-gen Any-Any Connectivity.
- **DC-to-DC/Cloud Interconnects:** Replace costly Private Links & Direct/Express Routes.
- **Secure Cloud Interconnects:** Provide secure network overlay between Cloud VNET/VPC's.
- **Replace Branch FW/UTM:** Consolidate networking & security into a single solution.
- **On-Prem SWG Refresh:** Replace legacy SWG's by extending SD-WAN Gateway functions.
- **Secure Office Enclaves:** Protect East-West traffic for Users/Resources within the office.

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Zero-Trust SD-WAN Solution

Zero-Trust SDWAN: Networking Capabilities

Features	Benefits

Networking, Routing & Dynamic Path Selection

Multiple WAN links for redundancy & increased throughput & performance

Offices are always connected to multiple ISPs - Supports Active/Active & Active/Standby modes.

Enhance Business Continuity with 'Always-On' Connectivity

Ensure ISP failures (and/or scheduled maintenance) does not interrupt 7x24 operations.

Dynamic Path Selection Ensures the Most Optimal Path is Always Taken

BGP Routing & continuous link monitoring to ensure the optimal path is chosen for every connection.

Guaranteed Connection Experience, even during failure scenarios

Ensures Link degradation will never impact end-user connection performance.

Application Awareness & Discovery

Extensive Catalog of pre-defined, pre-classified Application Resources

Customize resource attributes in terms of application risk sensitivity and importance to the business .

Ensure Critical Applications are always given priority over the network

Easily determine & control which applications need specialized handling with Threat & Data Protection.

Auto-Discovery of Applications and Resources within the environment

Dynamic resource discovery, cataloging and policy controls for all office-based devices & connections.

Eliminate 'Blind-Spots' non-sanctioned connections

Apply real-time policies to quickly manage and control non-sanctioned site, host & App access.

Traffic Steering & Optimization

Dynamic Steering using deep content inspection for Apps and Connections

SSL Inspection enables DLP within CASB and Gen-AI protection modules, also provides enhanced steering.

Power to control and select the best path for critical apps & connections

Enable IT to define granular steering policies to align with business priorities for key apps/services.

Advanced Service Re-direction to intelligently offload local processing

Off-load specific categories of application & services to the iboss Cloud using real-time steering policies.

Optimize User Performance & Network Efficiency across the entire IT Domain

Reduce the complexity & cost of delivering a fully distributed security edge using multiple solutions.

Optimization for Connections Demanding Low Latency Performance

Dynamic Bandwidth optimization for latency sensitive connections (such as VOIP calls and RTP sessions).

Enhanced User Experience for Critical Collaboration Apps/Services

Ensure mission critical application performance is always consistent, even under high network load.

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Zero-Trust SDWAN: Security Capabilities

Features	Benefits
Threat Protection	
Secure Web & SaaS access for all outbound internet connections	Provide fully secure & optimized access Web & SaaS resources
SWG-enabled Web Filtering & Malware Protection for all Web / Internet access, using iboss Threat Intelligence.	Enable secure Direct-Internet-Access (DIA) to solve application performance & user experience issues.
Deep Content & DNS Security for all devices, hosts & connections	Prevent malicious sites & threats from infiltrating the corporate network
Secure and control Requests & Content to prevent Data Loss, Malware infections, and enforce compliance.	Provide protection to branch users, IOT devices, and/or Guest Networks to reduce threats & risks.
Full-featured Firewall (incl. DHCP server & NAT) directly within the Edge Gateway	Reduce complexity & cost by eliminating Branch Office firewalls
Only permit in-bound connections from authorized connections, protect all out-bound connectivity.	Reduce Solution Sprawl through consolidation and simplify solution administration and visibility.
Data Protection	
Built-in SWG with high-scale, low-latency SSL Decryption & Deep Content Inspection	Inspect all connections to ensure company data is always fully protected
Dynamic analysis of every connection to identify, block, and flag the inappropriate use of company data.	Increase effectiveness of Compliance & Governance with unified visibility of all company data usage.
CASB, Gen-AI Protection, with powerful DLP controls, all directly in the Edge Appliance	Prevent Data Exfiltration for branches / offices using Direct-Internet-Access (DIA)
Provides protection for SaaS Apps & Gen-AI Toolsets, dynamic policies to enforce sanctioned resource usage.	Govern how employees use SaaS & Gen-AI Toolsets to prevent Data Leaks (unintentional, or otherwise).
Zero-Trust Network Access	
Secure access to in-Branch resources with inbound ZTNA connections	Permit direct access for Remote Users into Office-located resources
Leverage ZTNA to isolate resources and provide least-privileged access to In-Office apps & services.	Increase access performance and elevate Branch Office security posture with controlled access.
Create Secure Enclaves with ultra secure inter-connectivity, directly in the Office	Provide ultra secure isolation for groups of users & resources with any location
Segment the Office–based network to secure East-West traffic flows using Gateway-enabled Threat Protection.	Isolate sensitive parts of the Office Network using local enforcement to broker inter-connectivity.

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Zero-Trust SDWAN: Customer-Edge Gateways

Gateway Deployment Options for all Enterprise Locations

Features

Flexible options for Branch/Office Connectivity & Head-End Aggregation

- → 1U/4U Rack Mountable Servers + Small Branch Office appliances - All Gateways are cloud-controlled with Zero-Touch Provisioning capabilities.
- → Scale-Out/Scale-Up capacity using Active/Active Customer-Edge Gateways, with Active/Standby for ensuring redundant operations at critical sites.

Benefits

Delivers Scale & Service Reliability across all Enterprise Facilities, large and small

- ✓ Deployment options at all locations, all with non-service impacting capacity expansion options - Ideal for rapid rollout/expansion of the SD-WAN service
- ✓ Effortless non-service impacting expansion, providing critical site redundancy options, with seamless failover that ensures business continuity

Extend Security Closer to the Users, Apps and Resources

Features

Provide Security for Apps & Services directly within Offices & Data Centers

- → Simplifies Cloud Adoption by unifying Networking & Security policies across the entire iboss Cloud & the Customer-Edge footprint.
- → Virtualized options for Cloud on-ramps, and easy-to-deploy Connectors for secure network interconnections.

Benefits

Allows Customers the choice of where they can deploy the Service

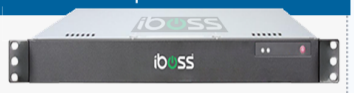
- ✓ Provides a gradual, but pain-free migration to the cloud, without any re-configuration or service affecting impacts
- ✓ Enables a 'Follow Me' Security approach that stretches the reach of enforcement to exactly where it's needed

SD-WAN SE-170

→ Compact Form-Factor Branch Appliance
→ Small to Medium Branch Offices

SE-170 Gateway Specifications	
Throughput	Up to 500 Mbps
Port Density	Up to 2 WAN Ports
Dimensions	7.2" x 6.32" x 1.32"
Weight	3.68 lbs.
Supported Services	
Fully Cloud Controlled	✓ Yes
ZTNA Ready	✓ Yes
SDWAN	✓ Yes
Full iboss Security Suite	✓ Yes

Enterprise-14700



→ 1U Server (rack mountable)
→ Medium to Large Branch Offices

E-14700 Gateway Specifications	
Throughput	Up to 1 Gbps
Port Density	Up to 4 WAN Ports
Dimensions	16.87" x 14.2" x 1.75"
Weight	11.45 lbs.
Supported Services	
Fully Cloud Controlled	✓ Yes
ZTNA Ready	✓ Yes
SDWAN	✓ Yes
Full iboss Security Suite	✓ Yes

Node Blade Chassis (NBC)-14

→ 4U Server Blade Chassis
→ Data Centers / Main Aggregation Sites

NBC-14 Gateway Specifications	
Throughput	Up to 14 Gbps
Port Density	Multiple WAN Ports
Dimensions	16.87" x 32" x 7"
Weight	140 lbs.
Supported Services	
Fully Cloud Controlled	✓ Yes
ZTNA Ready	✓ Yes
SDWAN	✓ Yes
Full iboss Security Suite	✓ Yes

Appliance-less Options

+ IPSec Tunnels to iboss Cloud from VNET / VPC's ↔ Secure

iboss Virtual Connectors
Standardized Containers
Docker · OVF · AWS
▪ Network & Access Controls
▪ Public Cloud, Customer Locations

Azure Cloud Gateway	
Fully Cloud Controlled	✓ Yes
ZTNA Ready	✓ Yes
SDWAN	✓ Yes
Full iboss Security Suite	✓ Yes

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Unify Optimize Protect

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