





OUR VISION (what we aim to achieve)

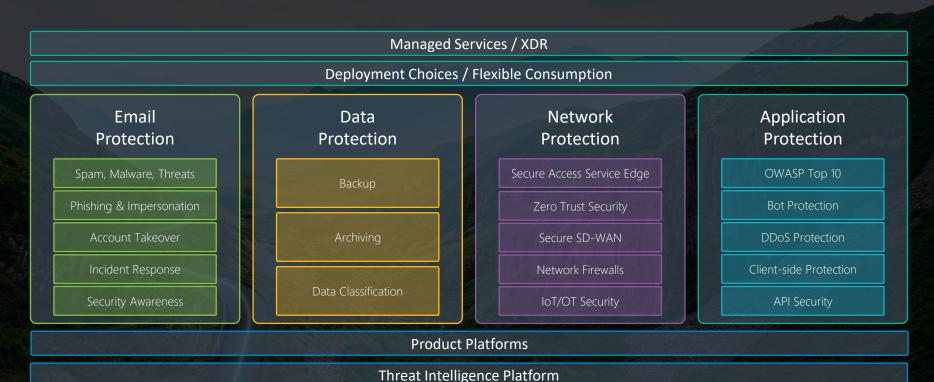
To build a safer world.

OUR MISSION (How we intend to achieve our vision)

To deliver innovative security products that are easy to buy, deploy, and use.



Barracuda Solution Framework



Barracuda Network Security Technology Timeline

Azure Certification

First firewall in Azure marketplace and in Azure Cloud with Microsoft Azure certification







CloudGen Firewal



First Firewall in Azure Virtual WAN



ZTNA proxy on CloudGen Firewall

Cloud based Secure SD-WAN service



Cloud-based IoT security.





Integration CloudGen Firewall:



Barracuda **XDR**™

Intent-based configuration for CloudGen Firewall (Policy Profiles)



















2023







Reporting & Analytics







Next-gen Security, private edge & FMaaS









SASE Platform

Expand CloudGen WAN, use existing CloudGen Firewall deployments to provide SSE, ZTNA, SIA, URL Filter at any endpoint









Security built-in



Today: Security & efficiency top priority

Traditional solutions not ready



Anti-virus



Anti-spam



Firewall



Client-2-Site VPN

Multiple attack surfaces



SaaS apps



Remote users



Hybrid data centers



Multi-site



IoT / Industrial

Lack of security resources

2.7M

Open roles worldwide

57%

Shortage of cybersecurity skills impacted org

on staff

Shortage results in

increased workload

62%

Organizations struggling to fill cloud security roles Threat landscape requires best in class

>90%

Of attacks begin with email

81%

Hit by a network breach

74%

Attacked by ransomware

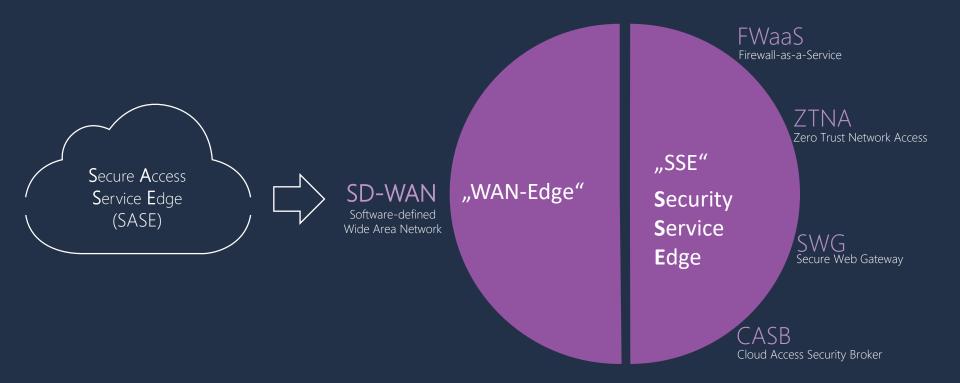
Challenging economic environment

Gartner

The Future of Network Security Is in the Cloud: Introducing the Secure Access Service Edge

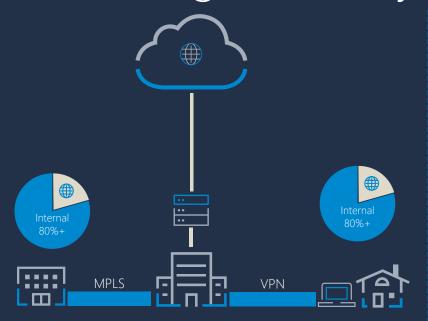
Neil MacDonald

What is SASE?





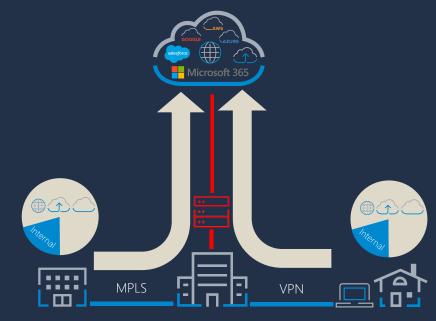
Networking & security transformation (I)



Apps hosted in DC

Users & office traffic backhauled to DC

Network: Security enforcement in DC



Apps: Mostly hosted in the Cloud or SaaS

Users: Often work off-network

Network: Security gaps in protection

2019: SASE

Office: manual IPSEC or very limited SD-WAN

User: Backhaul everything all the time, no last mile optim.

Data privacy? Addtl. point of failure? MPLS-like lock-in!

Expensive, complicated to set up

r Firewall Mesh?



Direct break out from everywhere

Security enforcement everywhere

Full data privacy, no central point of failure

Expensive, complicated to set up



2023: Post-WFH mandates , it gets even worse !



Branch is back!



+ employees WFH 2-3 days a week



Branches see MUCH more traffic (+70%)

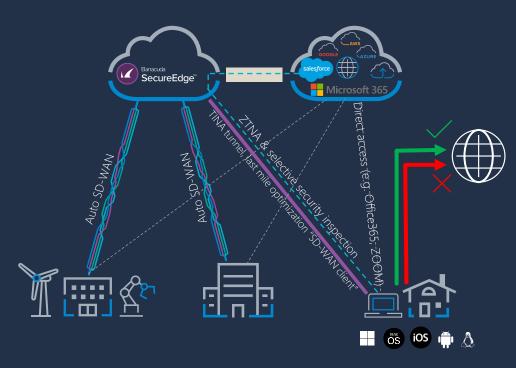


ALL IN cloud -> "mostly" cloud, HYBRID here to stay



understaffed. under skilled. under attack.

So we need best of both worlds



Easy-to-use cloud-based manager

Highly automated, auto SD-WAN built in

Security built in, intent based configuration

Last mile optimization for endpoints

Must have: All client platforms

Must have: All office types

Must have: ZTNA to apps, hosted in ANY cloud

Simultaneous access to multiple clouds

Availability: Service: SaaS

Private: (appliance / VM)

Azure: SecureEdge for Virtual WAN





Barracuda SecureEdge: SASE made easy

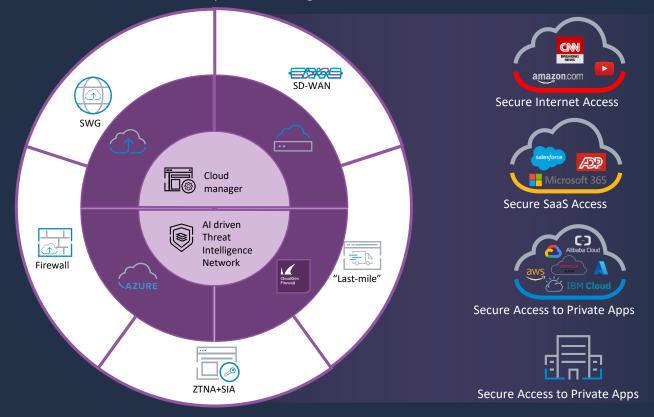
Cloud-delivered Security & Networking



Any remote user on any device







Use Cases



Secure Web Gateway, SD-WAN and cloud delivered network security

Customer w. single site



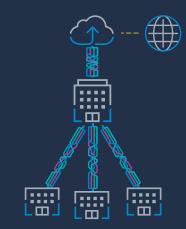
Example: Customer has a single office and needs web security, internet access and security.

Customer w. multiple sites



Example: Customer has several retail stores, each needs internet access and security.

Customer with branch sites



Example: Customer has a headquarters and branch sites which need connectivity back to the headquarters.

IoT or Industrial to Cloud

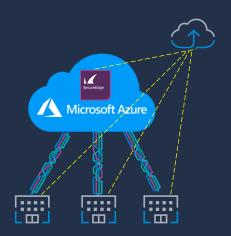


Customer needs to send IoT traffic to public cloud or DC and enable Secure Access (ZTNA) to Industrial Control Systems on the factory floor



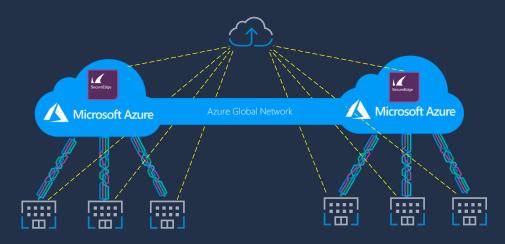
Cloud-on ramp, cloud delivered network security

Customer in Cloud



Example: Customer has servers in Azure and the branch sites need connectivity to those servers.

Customer in Cloud, Azure Global Network as backbone



Example: Customer has servers in Azure in different regions and the branch sites need connectivity to those servers.



How it works



Lide edsoricia (s.)tor



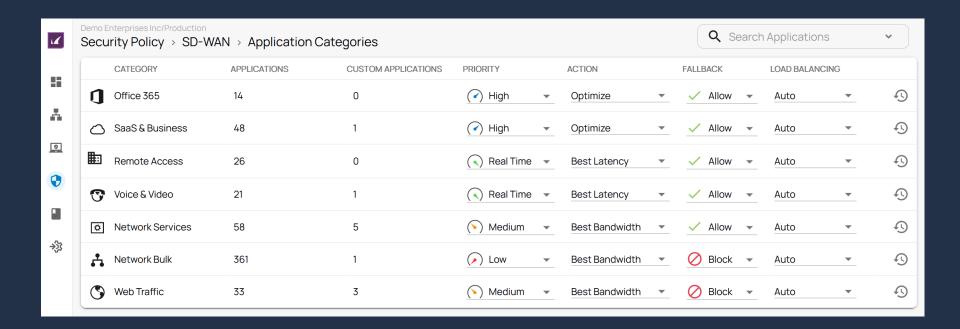
- SPASE compeditivity appliances and vsott Bharpolide vol 85 acts vice fully managed by Barracuda.
- Zenoetruictki denkenkoeseta (ZTD) for
- * Baction Harby Mals Service
- Filtering for Secure Internet pliance Access (SIA)
- •• Full receiming felanting take to alexicable if
- Last: Mile traffic optimization
- P Patra Les Pretos de la fice wall to
- Secure connector devices for lot since the since of the since of the secure of the s

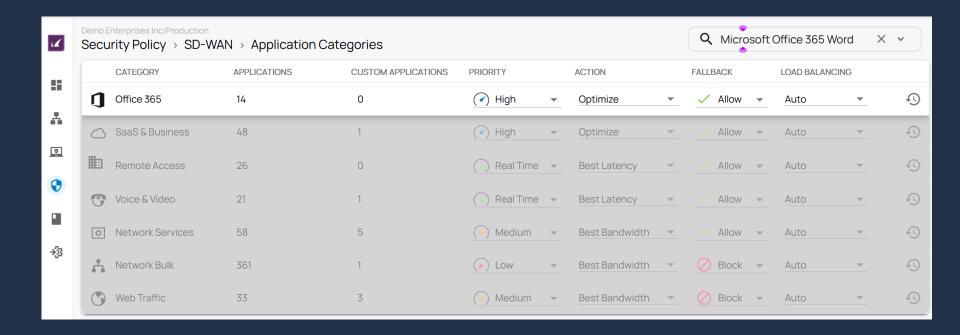


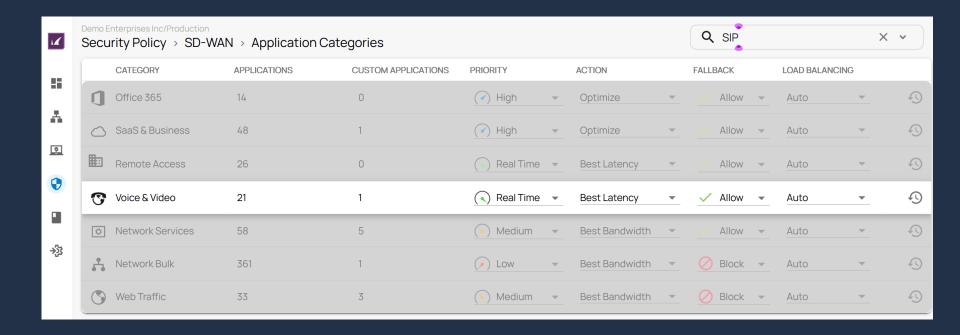




(4) SD-WAN Connector

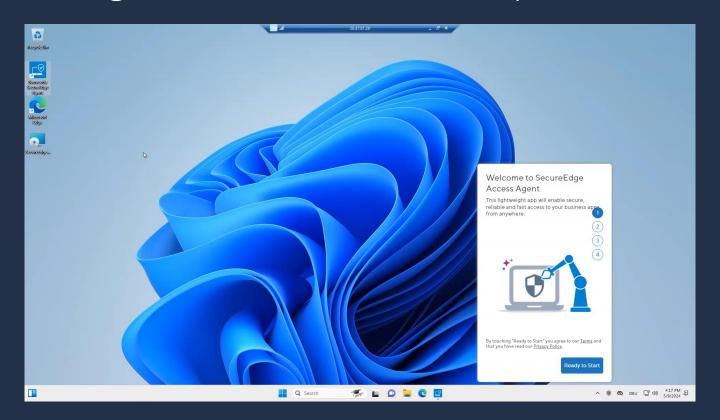






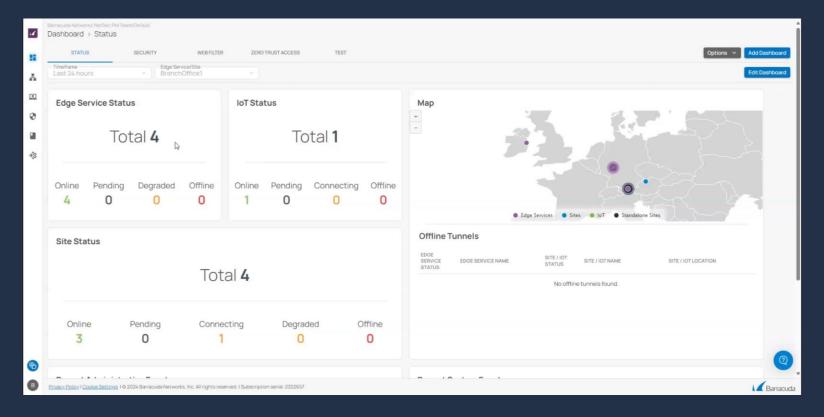


SecureEdge Access enduser experience

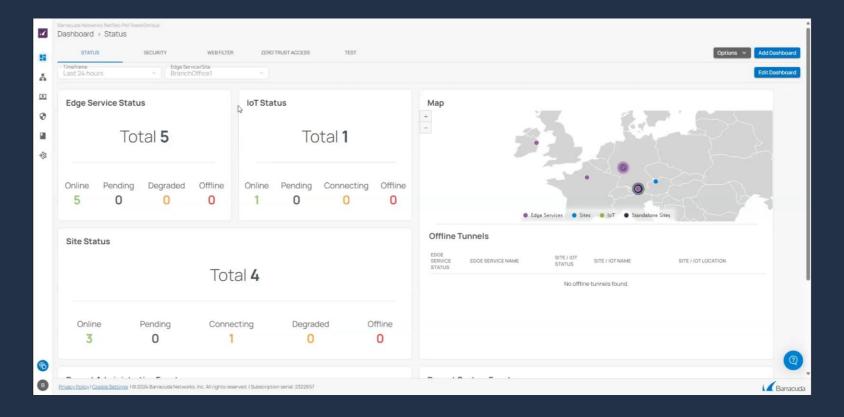




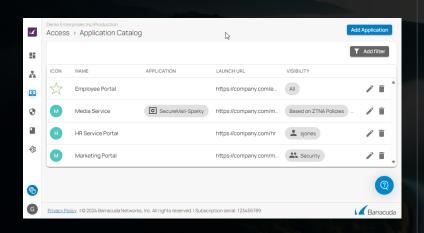
SecureEdge Access setup



Private and Public Resources



Latest update for ZTNA in 9.0.2



New authentication options

New features

- Mass enrollment
- Tamperproof
- Application catalog
- Configurable device limit
- User overrides
- ZTNA application list improved (conditional access)

ZTNA dashboards

New ZTNA options

Tamperproof

- Users can no longer exit the agent or disable the connection
- MDM required on mobile and macOS to be truly tamperproof

Device limit

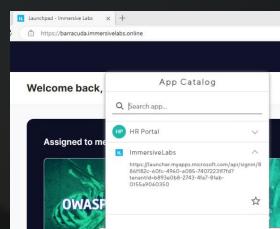
Configure the number of devices per user.
Default: 5 / Max: 10

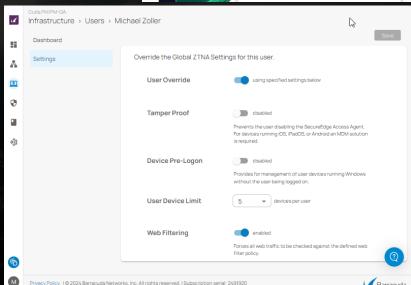
User override

All ZTNA settings can be overridden on a per-user setting.

App Catalog

- Link to internal and external resources
- Visibility per user/group or inherited from Zero Trust Access policy



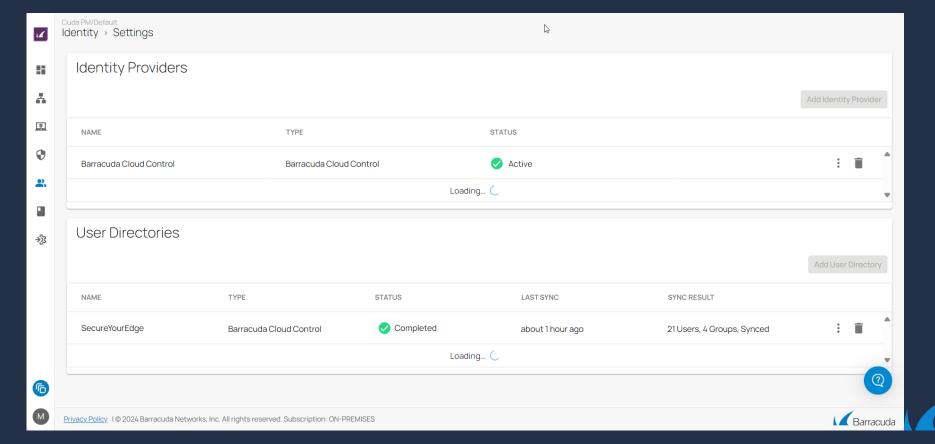


Identity service

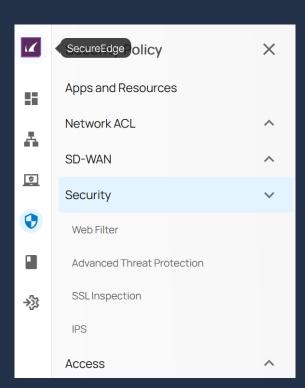
The transition from Barracuda Cloud Control to dedicated identity service

- Support for Entra ID, SAML, Okta, Google Workspaces and OTP tokens (email based)
- Separate IDP and directory sync
- BCC accounts grandfathered in
- Test authentication

Identity service

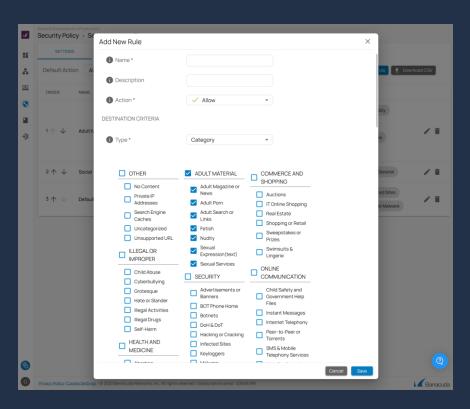


URL Filter and Security in SecureEdge





Web Filter



More than 200 categories

Enforced by site device and SecureEdge Agent for WFH

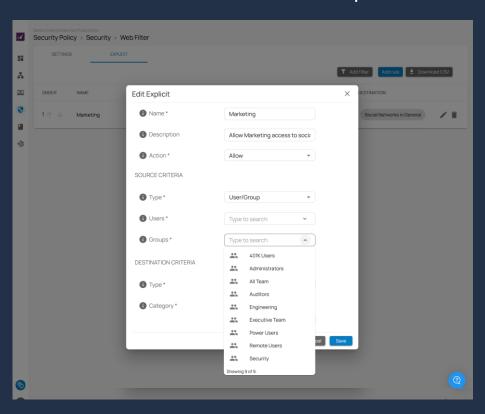
Single policy

Settings auto-apply to all sites, services and WFH users

Exceptions available



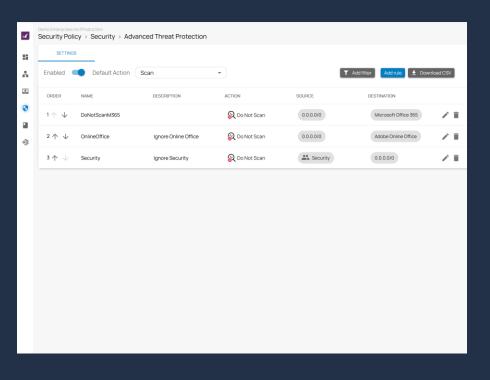
Web Filter: Exceptions



Exceptions by Source IP/Network, site, or user/group level

For Web Filter Category od individual domains

Advanced Threat Protection



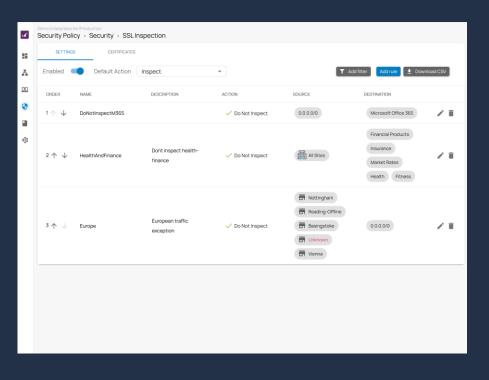
Included with Energize Updates

Available for Site device, Private Edge Service, SaaS Edge Service, Edge Service in Azure.

Also applies to traffic backhauled for security inspection



SSL Inspection



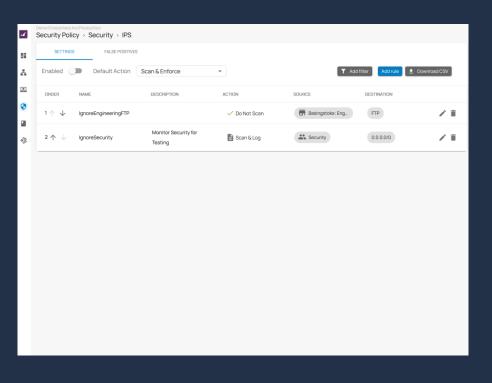
Included with Energize Updates

Available for Site device, Private Edge Service, SaaS Edge Service, Edge Service in Azure.

Also applies to traffic backhauled for security inspection



Intrusion Prevention System (IPS)

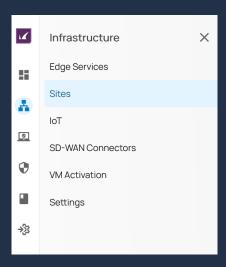


Included with Energize Updates

Available for Site device, Private Edge Service, SaaS Edge Service, Edge Service in Azure.

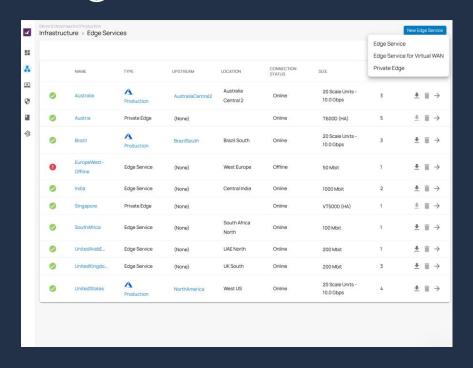
Also applies to traffic backhauled for security inspection





Managing the Infrastructure

Edge Services



Available for: SaaS, private HW appliance, private VX, Azure vWAN

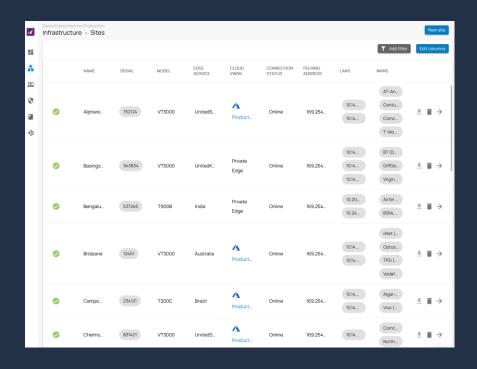
Site devices can be "promoted" to private Edge Service

50 Mbps to 40 Gbps

Security & networking for WFH, SD-WAN on-ramp & security for sites (if not done locally)



Site devices



Appliance hardware & virtual

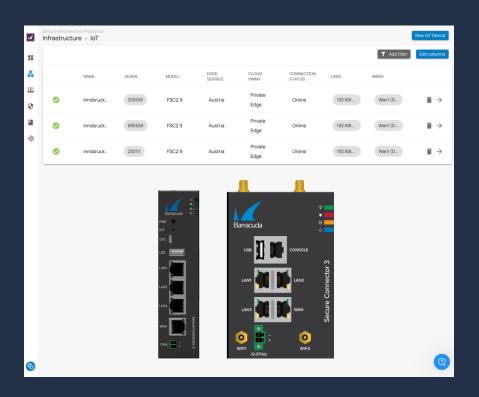
Management of unlimited number of devices

Zero Touch Deployment

P4 listens for DHCP assignment



IoT devices



Small fanless devices for IoT connectivity

Extended temperature range

WiFi & LTE models available

No on-box security functions.



Access to anywhere Apps: SD-WAN Connector

Lightweight SD-WAN connectivity

- Linux + Windows server
- Uses TINA protocol
- Inbound only
- Users access via internal DNS

