NESECURE®
Telecom

NE-WAN(SDWAN)

Agenda

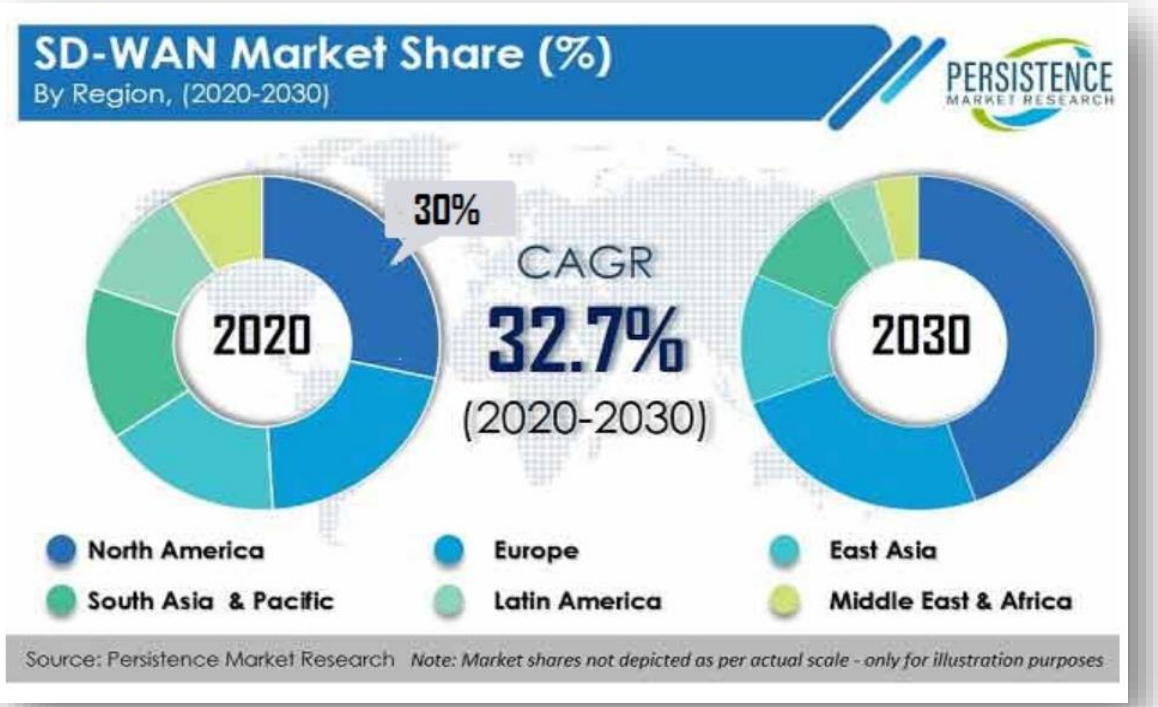
- About NeSecure Telecom Pvt. Ltd.
- Market Overview
- **NeSecure Product & Services Portfolio**
  - NE-WAN (SDWAN)
  - IPv6 Transition
- NE-WAN Case Study

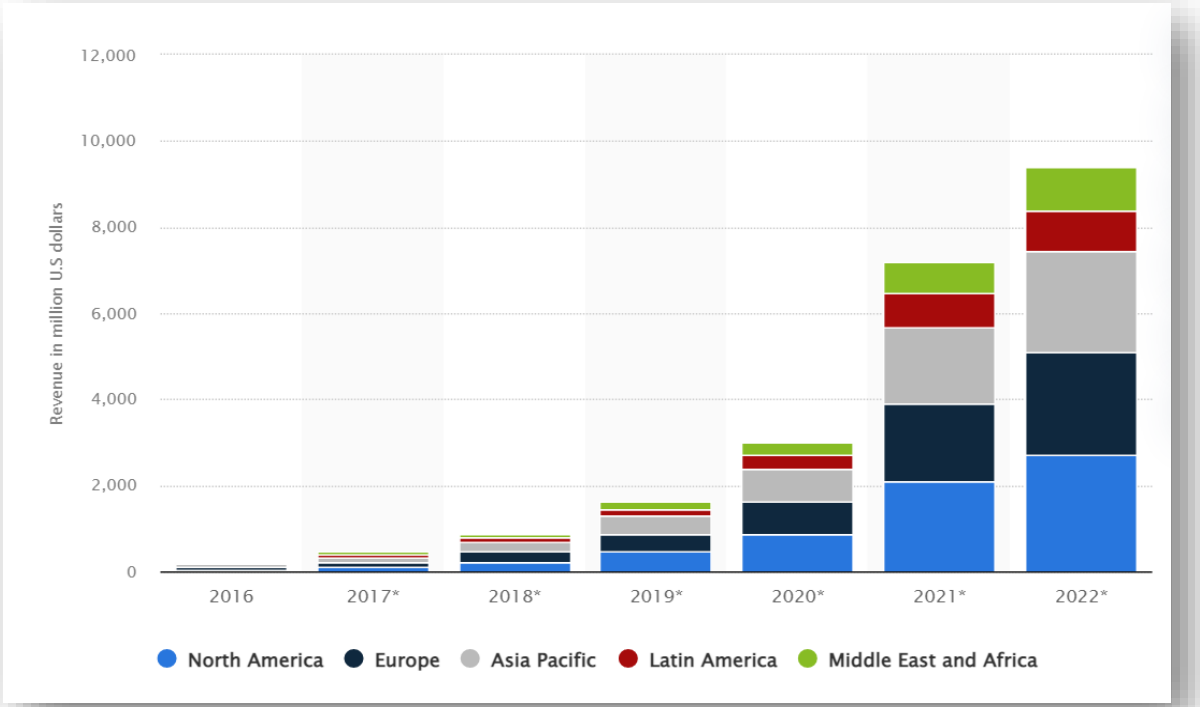
About : NeSecure Telecom Pvt. Ltd.

- NeSecure Telecom Pvt. Ltd. founded in 2019 to take forward the Flagship **Product NE-WAN (SDWAN),** to different Geographies of Globe.
- A Make In India SDWAN Service Portfolio.
- As on date we **manage 150+ customers** across India in various segments like Microfinance, Banking, Logistics, Retail, IP Surveillance, Telecom and ISP, etc.
- NeSecure's products are built for the Large, Small & Medium Enterprise, Retail, and WFH connectivity with the highest standards of security, performance, and scalability.
- NeSecure Telecom Pvt Ltd is headquartered in Pune, India with a presence in multiple locations across India.
- We are transforming network connectivity across the globe with future proof to accelerate digital journey for everyone in the world. And while doing that, our vision is **"Tech_To_All"** with added advantage of cost effectiveness.

Market Overview

- The Global SD-WAN market size is projected to reach **US$ 5220.9 million by 2028**, from **US$ 995.2 million in 2021, at a CAGR of 32.7% during 2020-2030**.
- As enterprises in India are gearing up to adopting SD-WAN services to alienate the prohibitive costs, complexities, accelerate cloud adoption. To accommodate an ever-increasing mobile work force, there is an impending need arising from the MSPs to automate and manage SD-WAN service life cycle across multiple SD-WAN solutions and underlay networks.

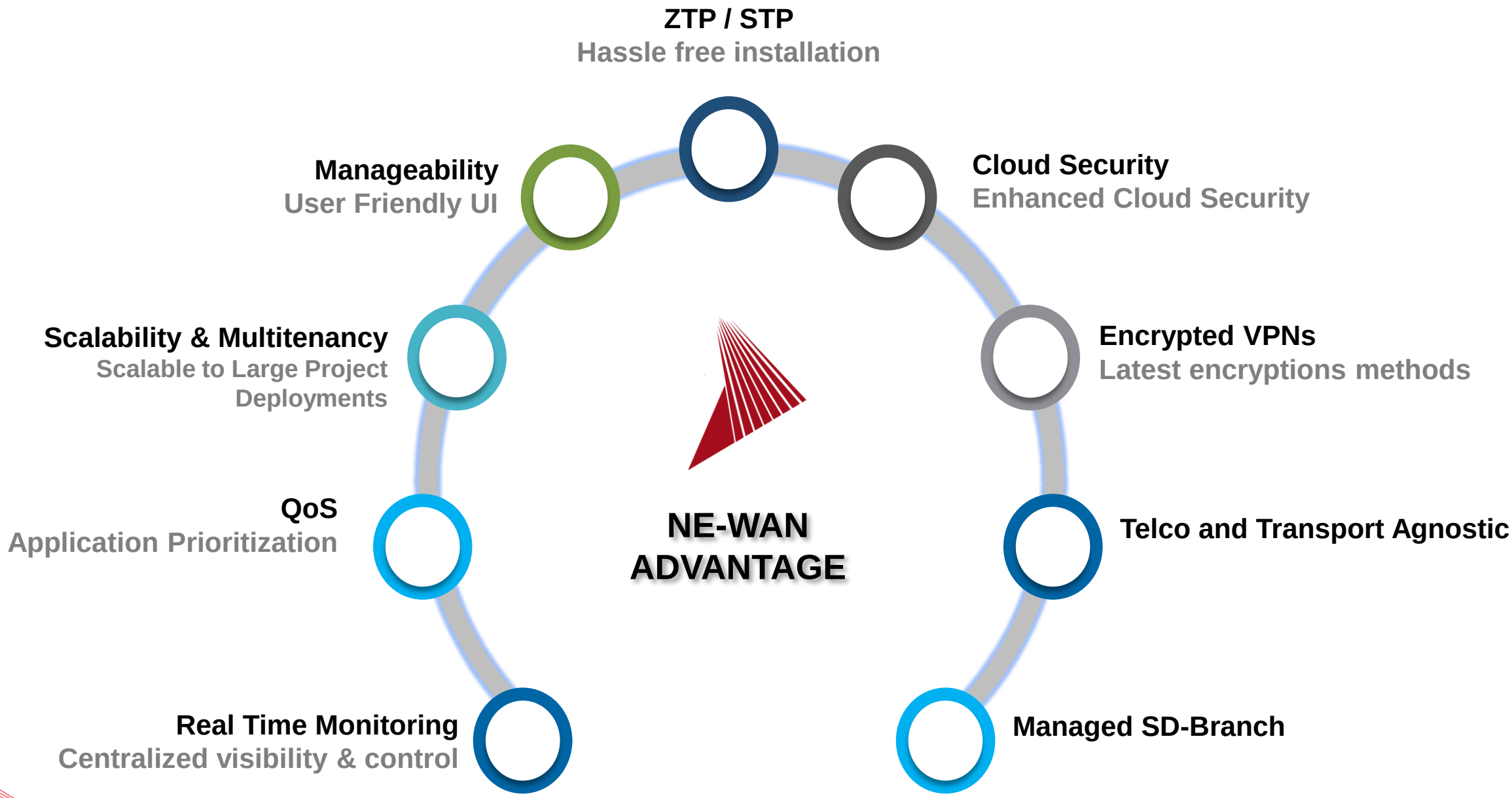




NE-WAN

NE-WAN

Features

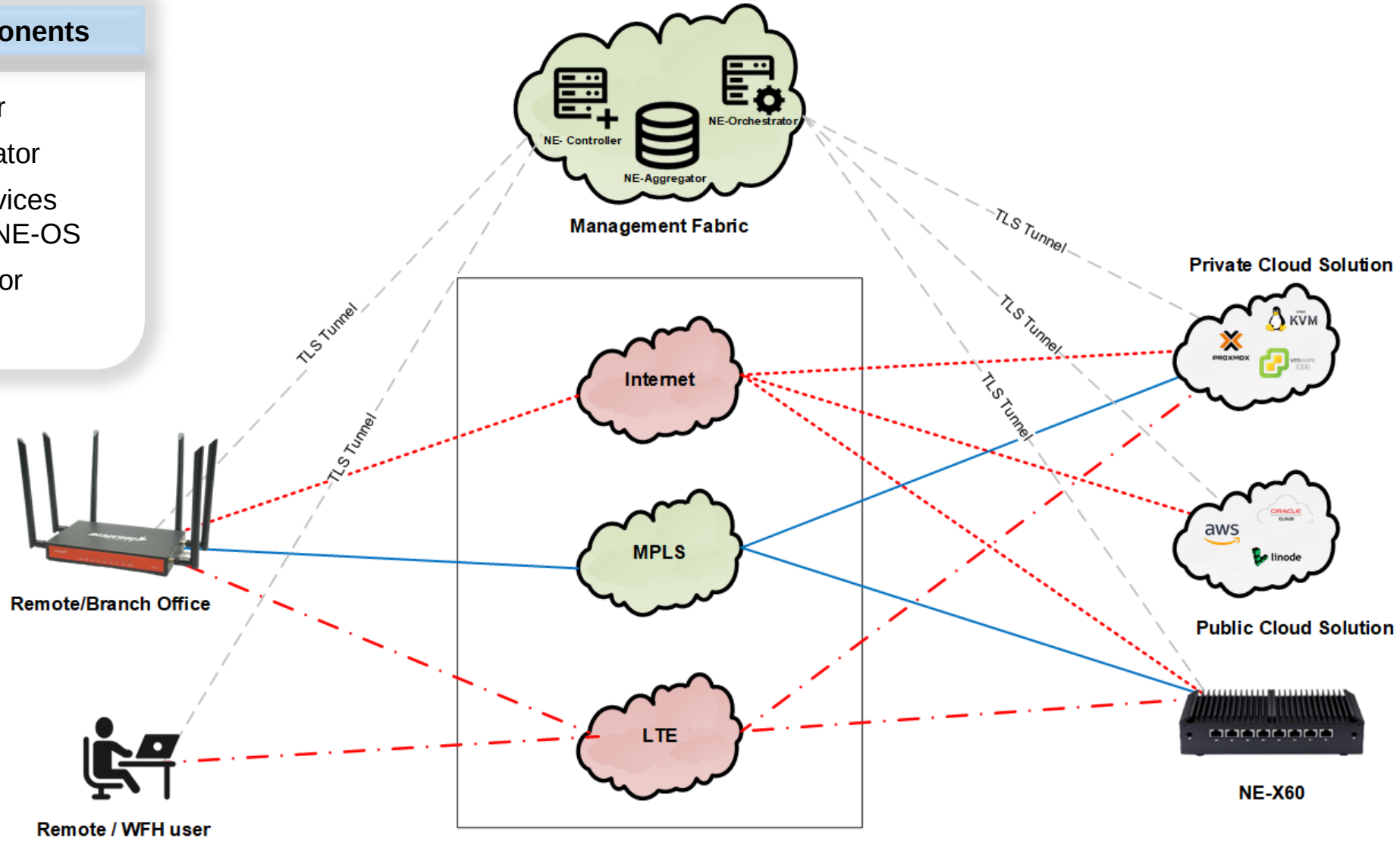


NE-WAN

Sample Solution Architecture

NE-WAN Components

- NE-Controller
- NE-Orchestrator
- NE-Edge Devices Powered by NE-OS
- NE-Aggregator
- NE-Analytics



Components

NE-Controller : Management Plane for NE-Edge devices.

Features

- Orchestration
- Zero Touch Provisioning
- Multi-Tenant Support
- Geo Mapping of Devices
- On-Cloud / In-Premise deployments
- Configuration Backup and Restore
- Central Configuration Management
- Edge Devices WebUI/CLI access
- Template Based Configuration
- Compliance Management
- Vulnerability Assessment
- RBAC
- Real-time monitoring & Reporting
- Notifications & Alerts
- SLA Reports
- Histograms
- Audit Logs

NE-WAN Components

NE-Edge

NE-Edge are a range of Cellular/ Non Cellular CPEs Powered by NE-OS firmware.

- NE - 05
- NE - 15
- NE - 25
- NE - x40
- NE - x60
- NE - x80

Features

- Multi-Fabric Support
- Throughput Upto 2500 Mbps
- Rugged Industrial Casing (IP-53)
- High speed Dual-Band Wi-Fi

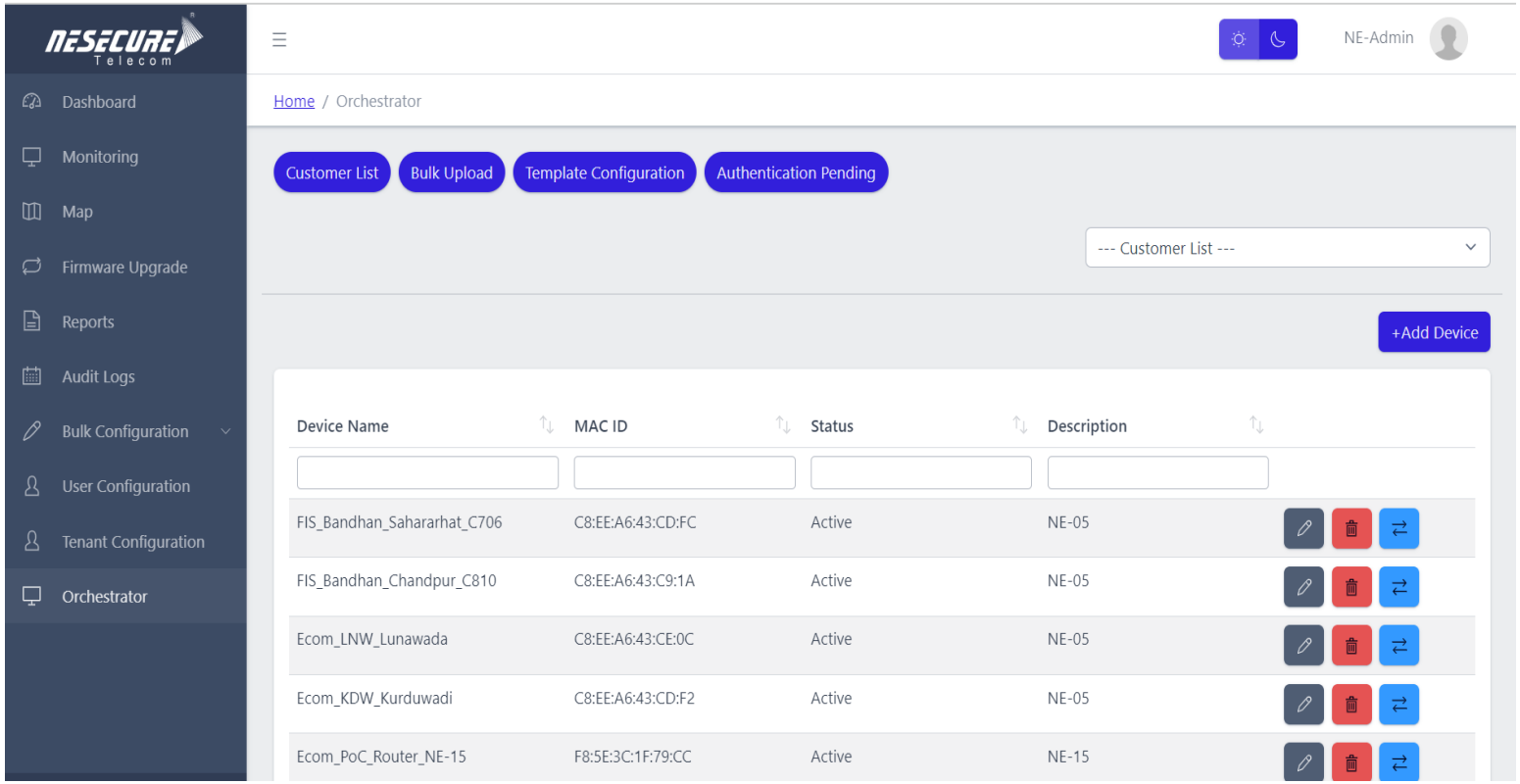
NE-OS

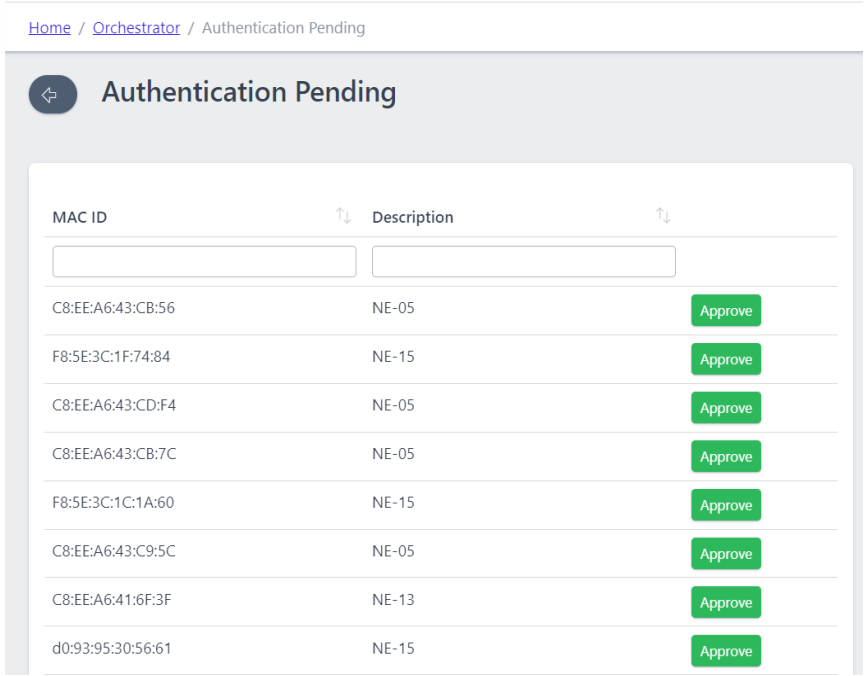
NE-OS is a IPv6 Ready Network Operating System with Enterprise features

Features

- WAN Aggregation
- Static/Dynamic Routing
- Application Aware Routing (1500+ Applications)
- Encrypted VPNs (IPsec/Wiregaurd/OpenVPN/AnyConnect/FortiVPN/ GRE/EoIP/IPIP/VXLAN/MPBGP4/EVPN etc)
- Zone Based Stateful Firewall
- IPS / IDS (Cloud based) with DDoS protection
- URL Filtering
- MultiVRF Support
- QoS

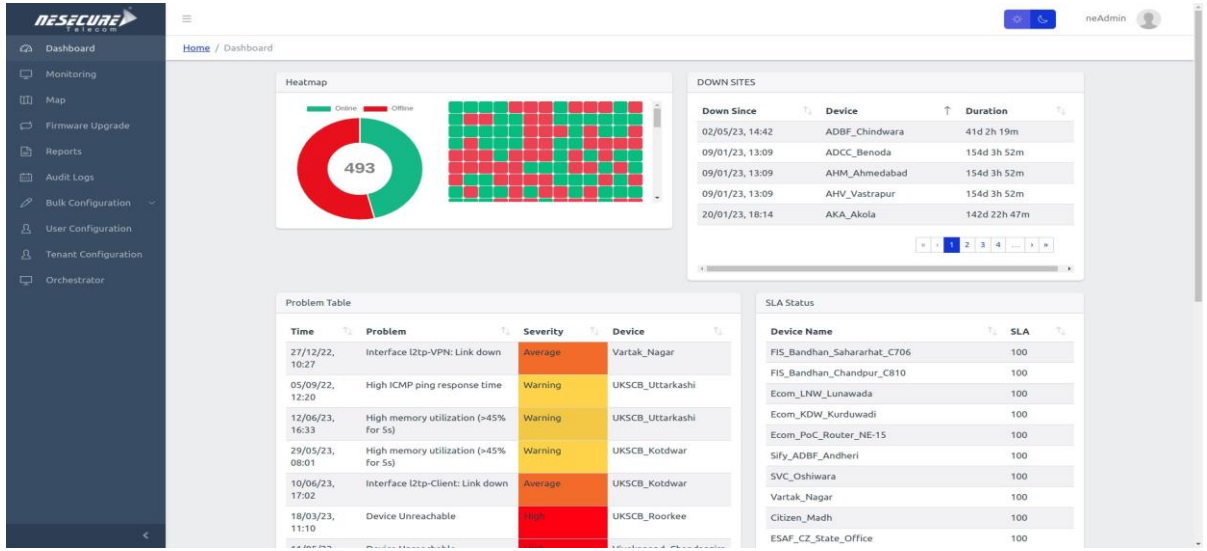
NE-WAN Orchestrator



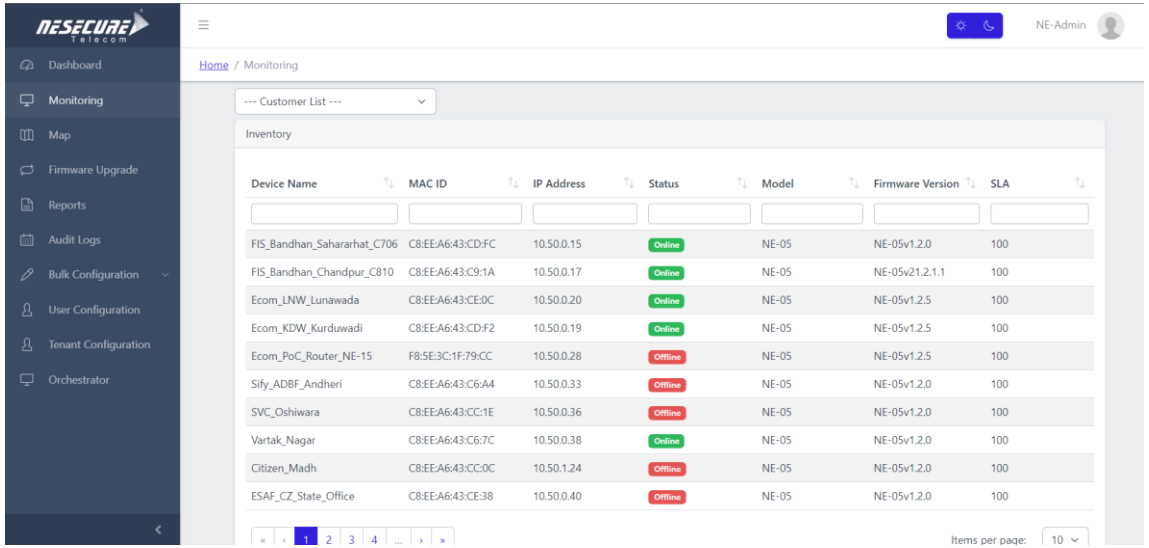


NE-WAN Controller

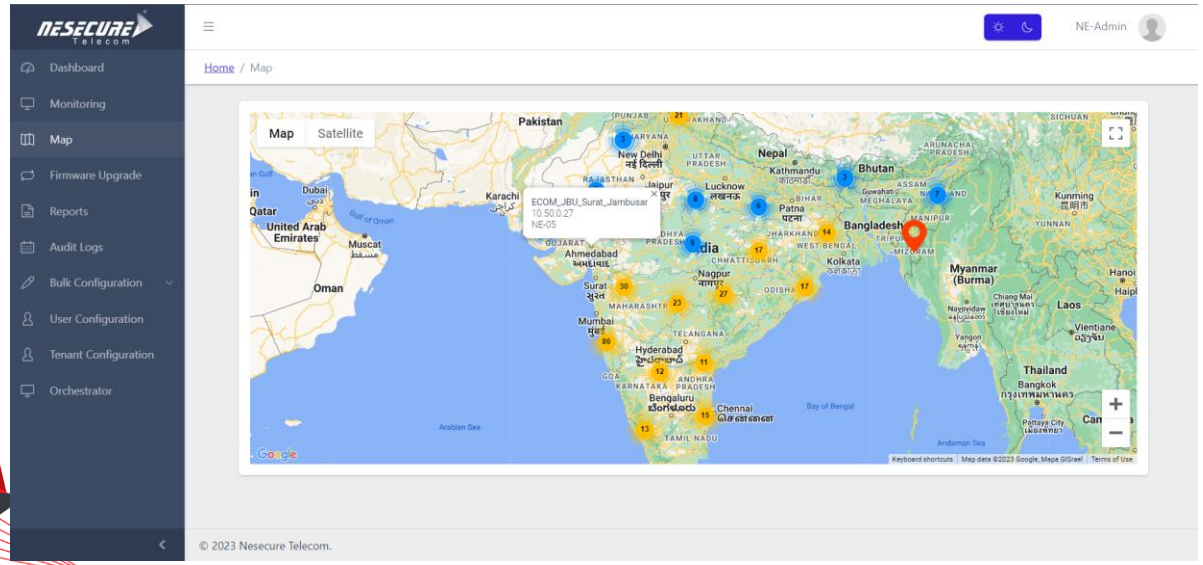
Dashboard



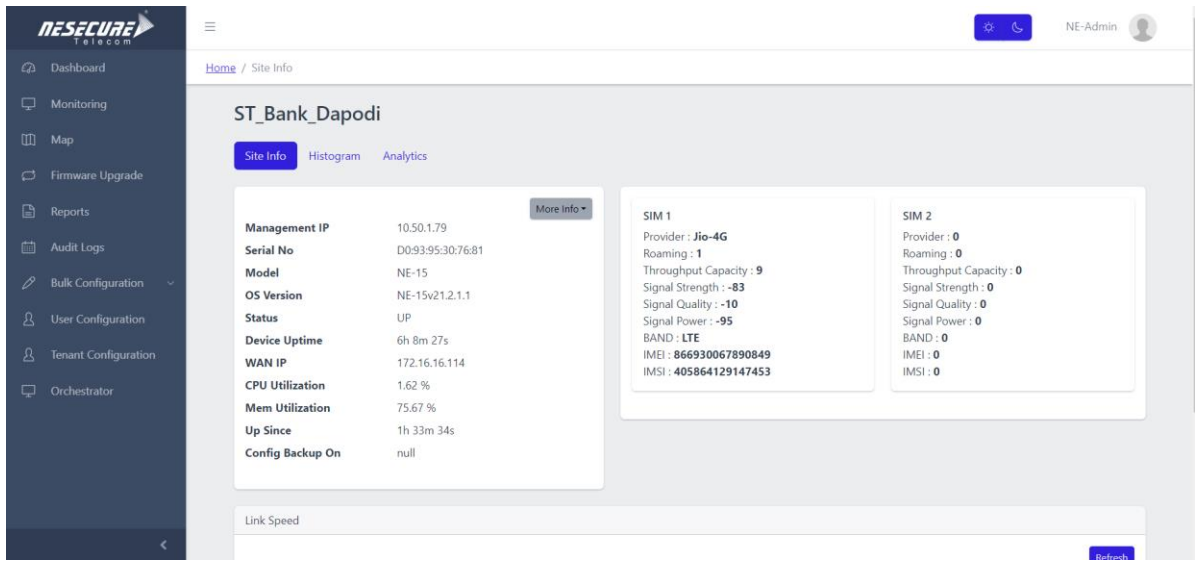
Inventory Monitoring



Geo-Mapping



Device Overview



NE-WAN Platforms

NESECURE Telecom

Small Scale (Upto 500 Mbps)

NE-05

NE-15

NE-25

Medium & Large Scale (Upto 2 Gbps)

NE-40

NE-60

NE-80

Virtual Appliances

Linux KVM

PROXMOX

vmware ESXi

Cloud Appliances

aws

ORACLE CLOUD

DigitalOcean

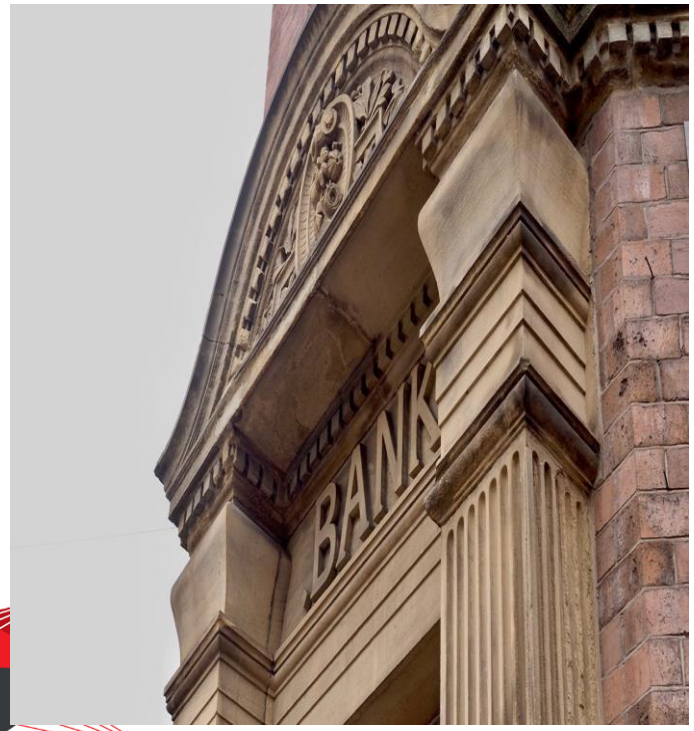
linode

VULTR

Case Studies

Case Study – Bank

Leading Private Bank in India (470 locations)



➢ **Summary**

Customer was looking for centralized visibility, control & security over its network along with redundancy / fallback in last mile connectivity with SLA monitoring.

➢ **Challenges**

- Inconsistence connectivity
- No redundancy in WAN Network
- No uptime SLA / reports
- No traffic prioritization
- No centralized visibility / control over the entire network.
- No alert mechanism during incidents

➢ **Solution**

- Multi fabric / media supportable CPE with B/w aggregation/auto failover to avoid any downtime
- SLA Reports
- QoS & Application / Traffic visibility
- Encrypted VPN for end to end communication
- Centralized visibility / control over the entire network

Case Study - Logistics

India's leading end-to-end logistics service Provider (890 locations)

➢ **Summary**

Customer is looking for multiple & multi fabric last mile connectivity on a single CPE in either aggregated or failover mode to ensure zero downtime & uninterrupted SLA driven solution along with centralized visibility & control over its network .

➢ **Challenges**

- Manageability of Network Infrastructure.
- No flexibility in traditional CPEs in terms of multi fabric support
- Inefficiency of traditional CPEs in terms of random quality checking (brownout) of last mile connectivity
- No or Limited centralized visibility / control over the entire network.
- Reduce of manpower in ground level to avoid human error.

➢ **Solution**

- Multi fabric / media supportable CPE with B/w aggregation / auto failover & link wise data usage visibility.
- Automatic monitoring & quality control of last mile connectivity's.
- Centralized visibility / control over the entire network
- Application Aware Routing to optimize the Last mile bandwidth.
- Faster deployment through NeSecure 's ZTP feature without human intervention.

Case Study – Work from Home

India's leading IT Company looking for WFH Solution for their employees

Summary

During pandemic companies were looking effective WFH Solution for their employees which will provide the seamless and high uptime / network availability

Challenges

- Wanted a cost-effective Solution.
- Challenge from existing BB Service Provider – Bandwidth availability and uptime
- Since Company was paying for BB; everyone in family were using the same BB and the required Bandwidth availability was compromised

Solution

- Provided Dual SIM NE25 device which had a back up from LTE where QoS was defined and Office Traffic was prioritize assigning specific bandwidth for office work.
- Complete visibility of employee's online availability was captured by company by HR & Admin
- Visibility of daily work done was readily made available to the respective organization.
- The Solution was cost effective and was made available within the budget.

Transition from IPv4 to IPv6

- **In line with the Government of India vision to make the Internet infrastructure ready with IPv6, NE-WAN is ready with the IPv6 Stack.**
- **Transition Options:**
  - Dual Stack
  - IPv6-IPv4 Tunnel
  - IPv6-IPv4 Translation

LET’S GET CONNECTED !!!

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Thank You