



NE-WAN(SDWAN)



- About NeSecure Telecom Pvt. Ltd.
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 - NE-WAN (SDWAN)
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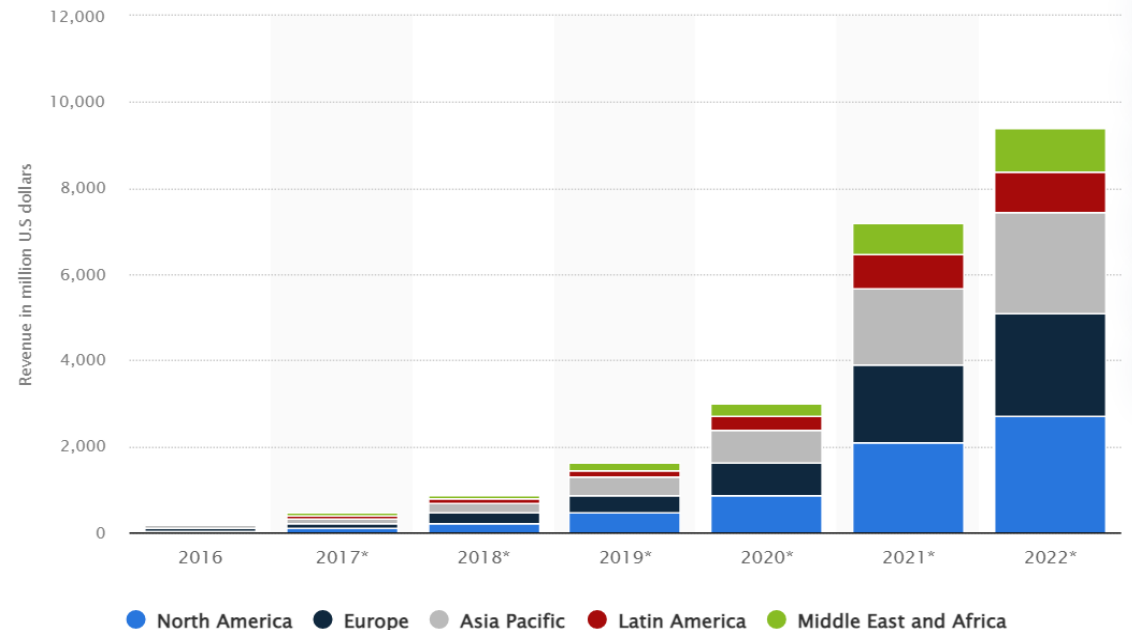
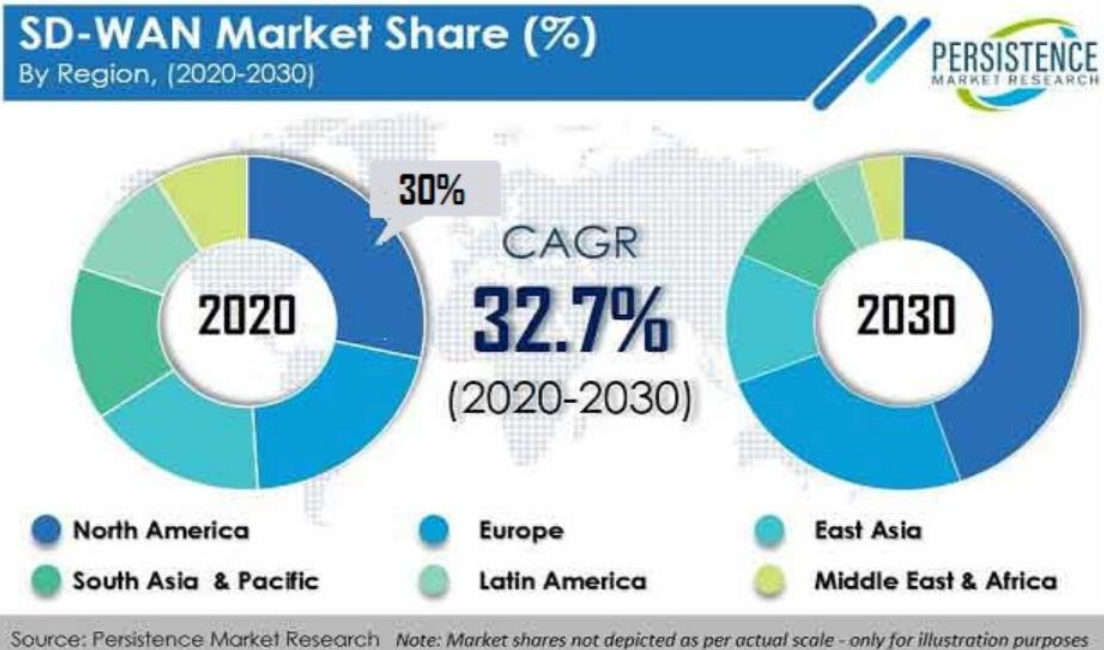


- NeSecure Telecom Pvt. Ltd. founded in 2019 to take forward the Flagship **Product NE-WAN (SDWAN)**, to different Geographies of Globe.
- A Make In India SDWAN Service Portfolio.
- As on date we **manage 150+ customers** across India in various segments like Microfinance, Banking, Logistics, Retail, 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.



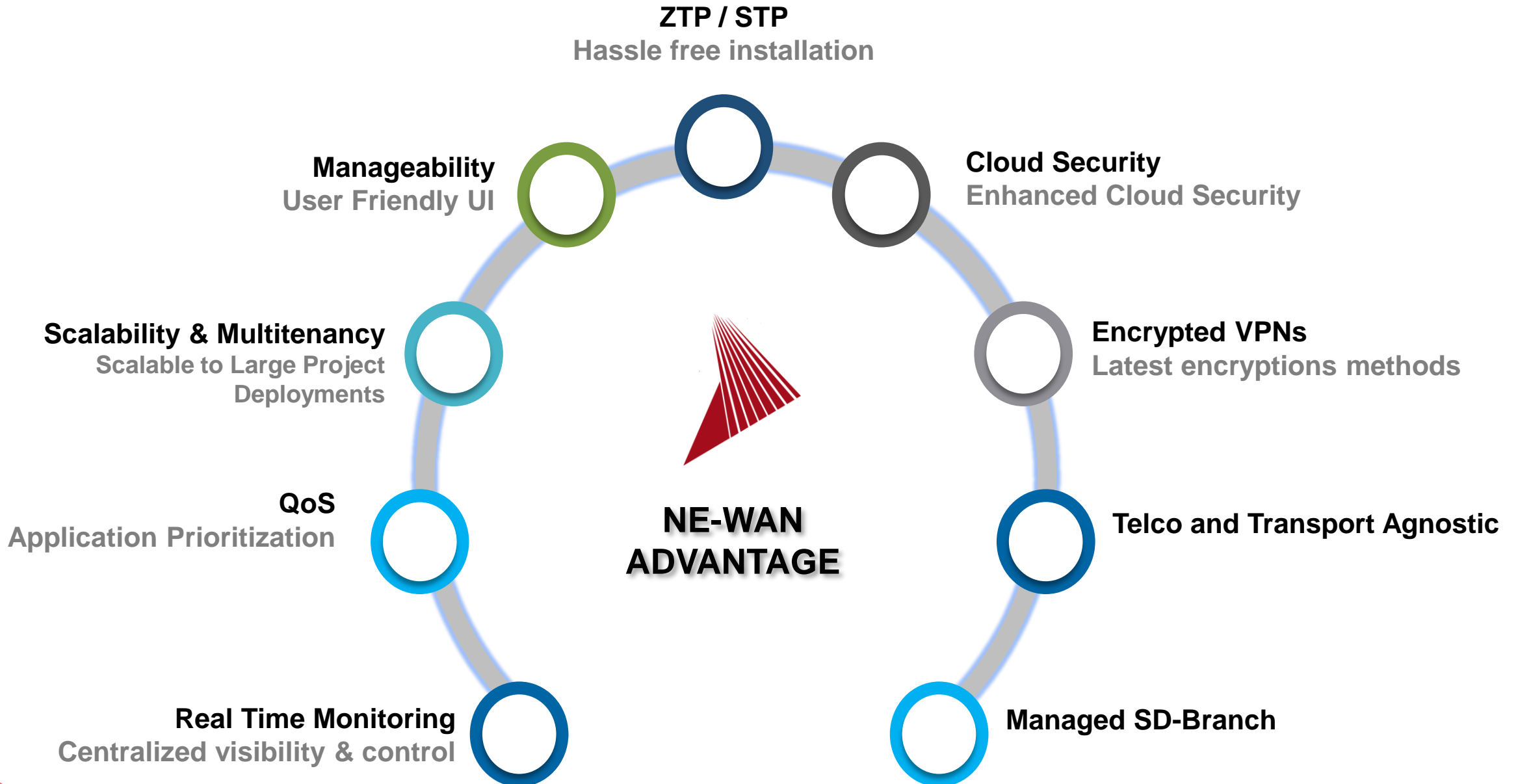
Market Overview

- 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.



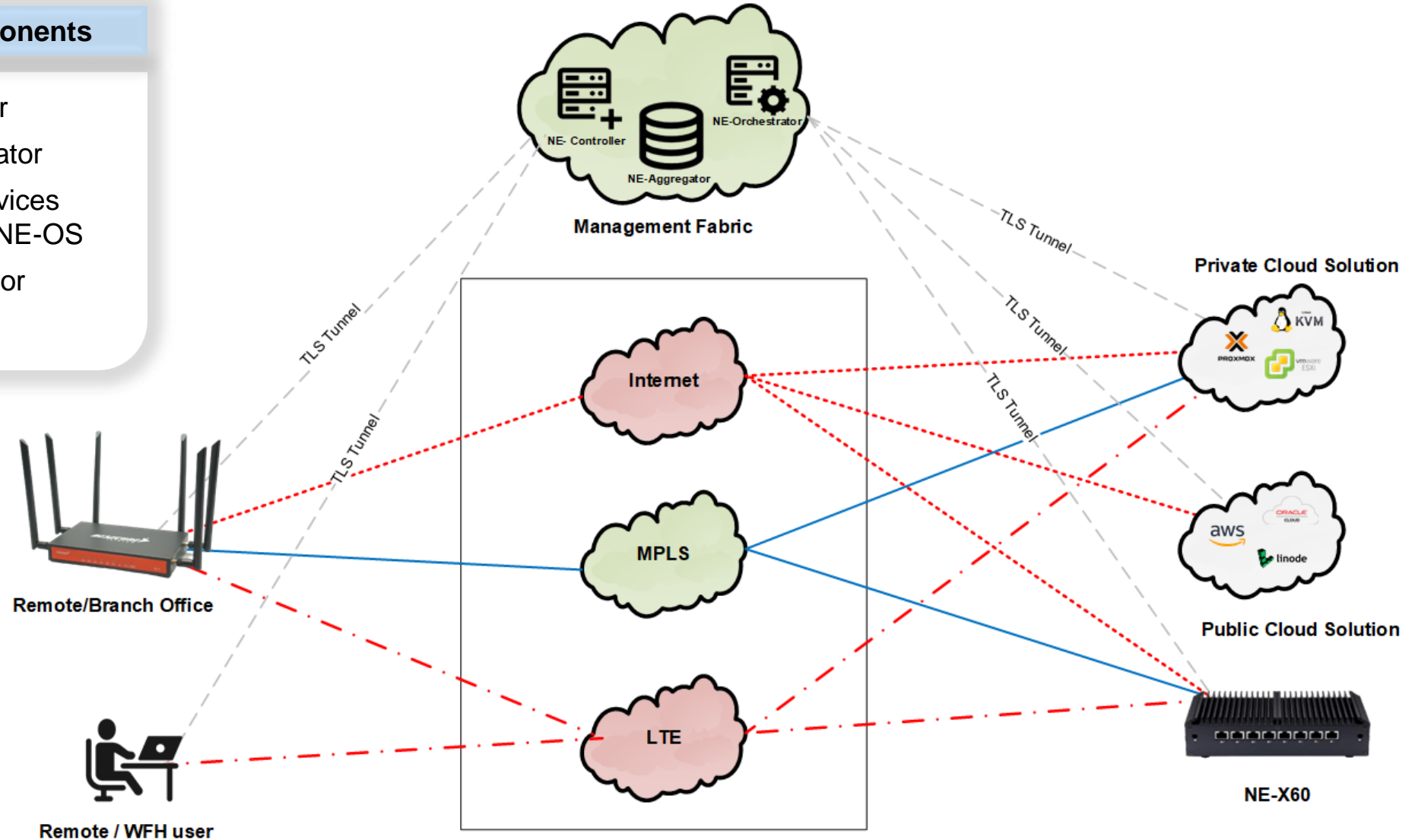
NE-WAN





NE-WAN Components

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



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-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/Wireguard/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-Admin

Home / Orchestrator

Customer List
Bulk Upload
Template Configuration
Authentication Pending

--- Customer List ---

[+Add Device](#)

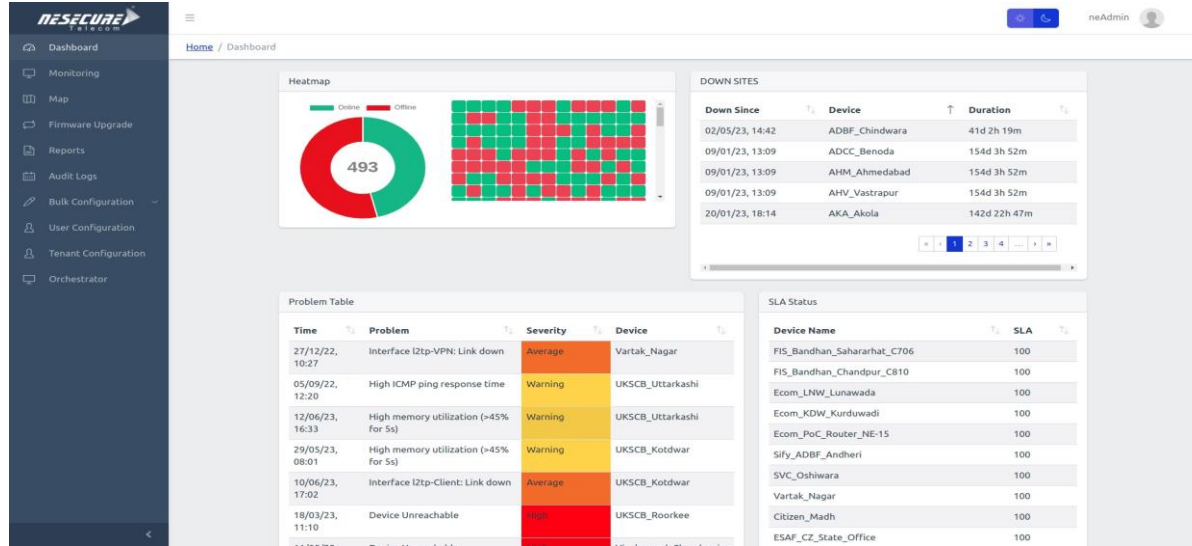
Device Name	MAC ID	Status	Description	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
FIS_Bandhan_Sahararhat_C706	C8:EE:A6:43:CD:FC	Active	NE-05	
FIS_Bandhan_Chandpur_C810	C8:EE:A6:43:C9:1A	Active	NE-05	
Ecom_LNW_Lunawada	C8:EE:A6:43:CE:0C	Active	NE-05	
Ecom_KDW_Kurduwadi	C8:EE:A6:43:CD:F2	Active	NE-05	
Ecom_PoC_Router_NE-15	F8:5E:3C:1F:79:CC	Active	NE-15	

Home / Orchestrator / Authentication Pending

Authentication Pending

MAC ID	Description	
<input type="text"/>	<input type="text"/>	
C8:EE:A6:43:CB:56	NE-05	Approve
F8:5E:3C:1F:74:84	NE-15	Approve
C8:EE:A6:43:CD:F4	NE-05	Approve
C8:EE:A6:43:CB:7C	NE-05	Approve
F8:5E:3C:1C:1A:60	NE-15	Approve
C8:EE:A6:43:C9:5C	NE-05	Approve
C8:EE:A6:41:6F:3F	NE-13	Approve
d0:93:95:30:56:61	NE-15	Approve

Dashboard

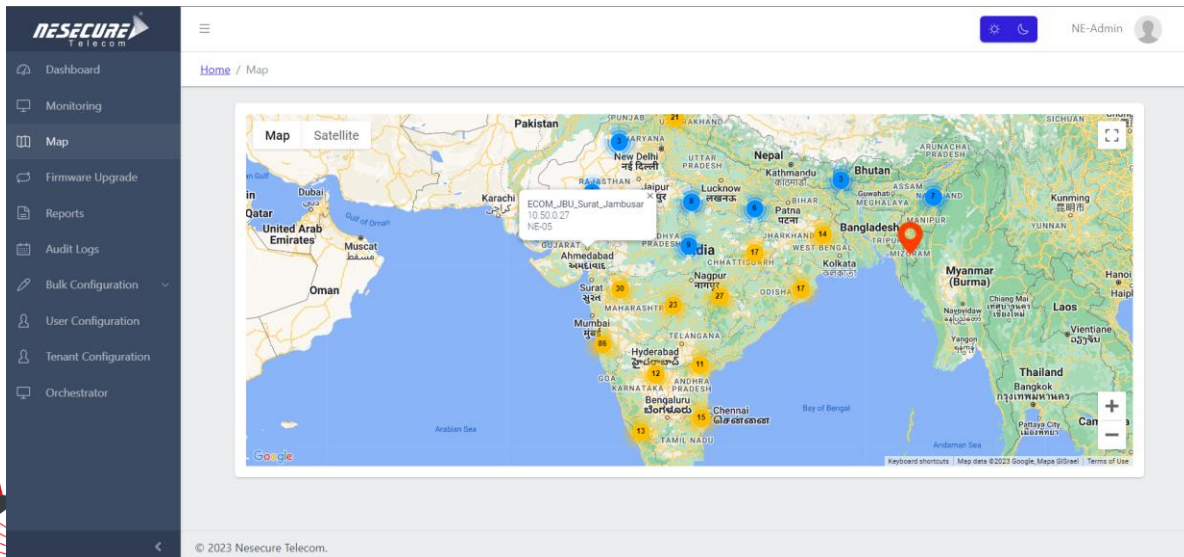


Inventory Monitoring

The inventory monitoring page displays a detailed list of all network devices. Each entry includes the device name, MAC ID, IP address, current status (Online/Offline), model, firmware version, and SLA. A search filter for customer lists is available at the top.

Device Name	MAC ID	IP Address	Status	Model	Firmware Version	SLA
FIS_Bandhan_Saharharhat_C706	C8:EE:A6:43:CD:FC	10.50.0.15	Online	NE-05	NE-05v1.2.0	100
FIS_Bandhan_Chandpur_C810	C8:EE:A6:43:C9:1A	10.50.0.17	Online	NE-05	NE-05v21.2.1.1	100
Ecom_LNW_Lunawada	C8:EE:A6:43:CE:0C	10.50.0.20	Online	NE-05	NE-05v1.2.5	100
Ecom_KDW_Kurduwadi	C8:EE:A6:43:CD:F2	10.50.0.19	Online	NE-05	NE-05v1.2.5	100
Ecom_PoC_Router_NE-15	F8:5E:3C:1F:79:CC	10.50.0.28	Offline	NE-05	NE-05v1.2.5	100
Sify_ADBF_Andheri	C8:EE:A6:43:C6:A4	10.50.0.33	Offline	NE-05	NE-05v1.2.0	100
SVC_Oshiwara	C8:EE:A6:43:CC:1E	10.50.0.36	Offline	NE-05	NE-05v1.2.0	100
Vartak_Nagar	C8:EE:A6:43:C6:7C	10.50.0.38	Online	NE-05	NE-05v1.2.0	100
Citizen_Madh	C8:EE:A6:43:CC:0C	10.50.1.24	Offline	NE-05	NE-05v1.2.0	100
ESAF_CZ_State_Office	C8:EE:A6:43:CE:38	10.50.0.40	Offline	NE-05	NE-05v1.2.0	100

Geo-Mapping



Device Overview

The device overview page provides detailed information for a specific site, ST_Bank_Dapodi. It includes site info, management IP, serial number, model, OS version, status, device uptime, WAN IP, CPU and memory utilization, and up time. Two SIM card details are also shown.

Management IP	10.50.1.79
Serial No	D0:93:95:30:76:81
Model	NE-15
OS Version	NE-15v21.2.1.1
Status	UP
Device Uptime	6h 8m 27s
WAN IP	172.16.16.114
CPU Utilization	1.62 %
Mem Utilization	75.67 %
Up Since	1h 33m 34s
Config Backup On	null

Provider	Jio-4G
Roaming	1
Throughput Capacity	9
Signal Strength	-83
Signal Quality	-10
Signal Power	-95
BAND	LTE
IMEI	866930067890849
IMSI	405864129147453

Provider	0
Roaming	0
Throughput Capacity	0
Signal Strength	0
Signal Quality	0
Signal Power	0
BAND	0
IMEI	0
IMSI	0

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



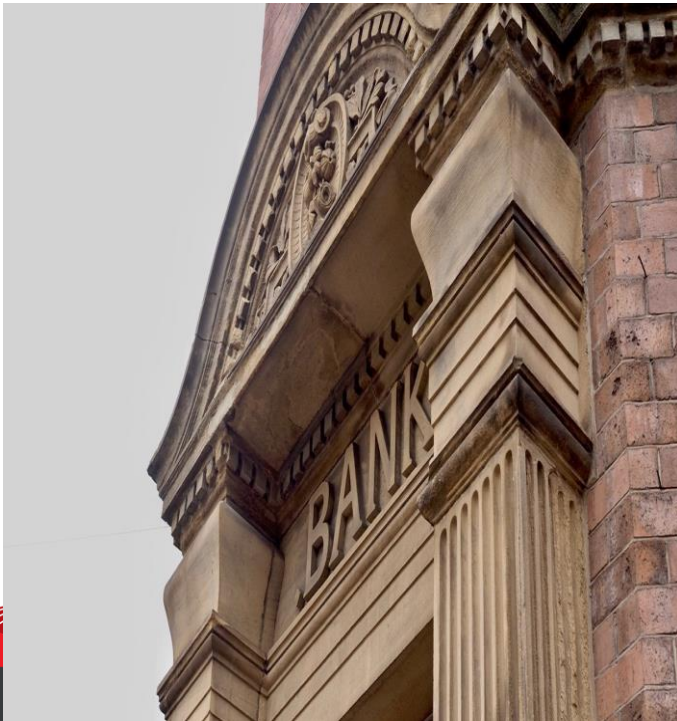
Cloud Appliances



Case Studies



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



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.



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.



- ❑ 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 !!!

sales@necure.net

Thank You