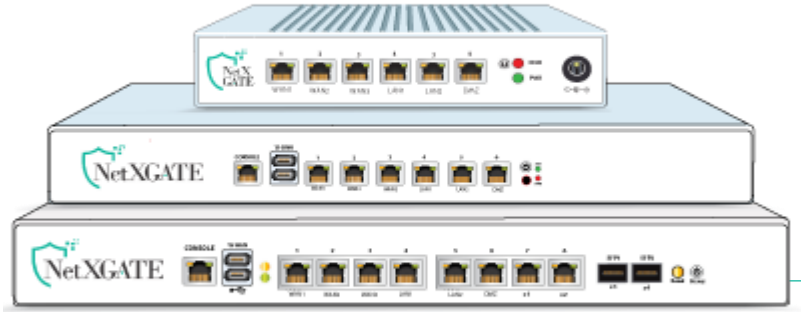
Cyber Security Products Series



- Next Generation Firewall (NGFW)
- Secure HotSPOT Gateway -AAA
- Secure Access SD-WAN
- Work From Home Solution

APAC Insider Business Awards 2022
Winner!
NetXGATE
Best Internet Security Space Start-Up Company - India

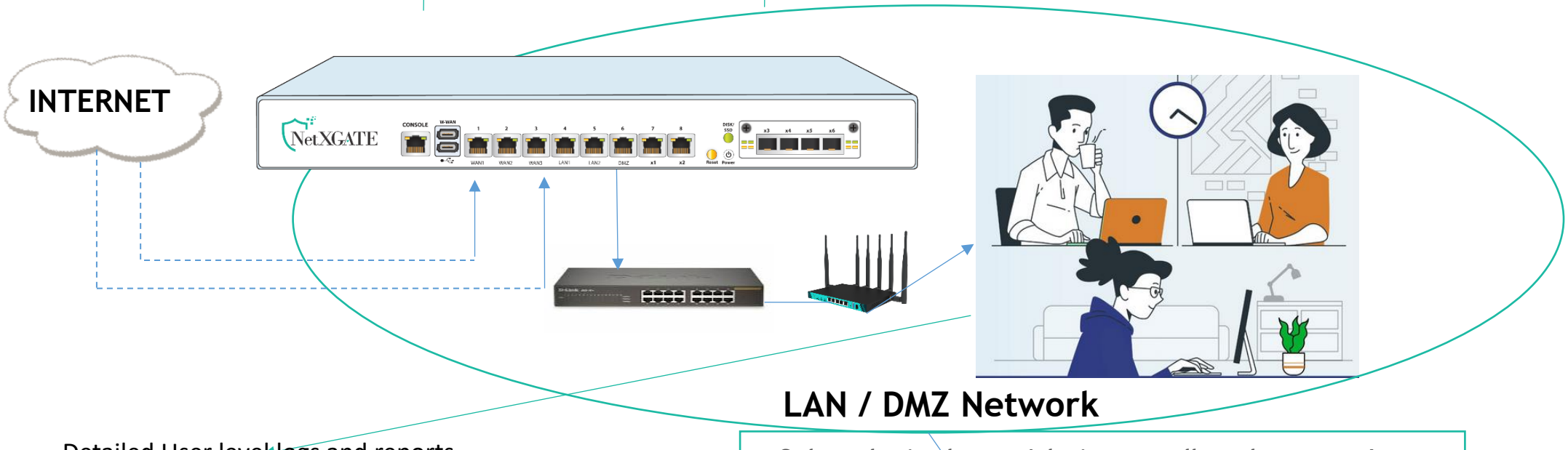
Who are we ?

- **NetXGATE** is an Indian cyber security product company that develop (70% MII) & market Unified Network gateway solutions. Development and Support centre at Bangalore & Delhi with a Global outreach with 10+ years in business and technical experience with 1K+ customers world wide and specialized in AAA and air-gapped SD-WAN Solutions .
- **Our Products** :Next Generation Firewall (NGFW), Secure HotSPOT Gateway (AAA) & Secure Access Gateway (SD-WAN).
- **Wide range of models serve small, medium and large Network across verticals like** -
  - **Government Depts. / Defense / Research Organizations**
  - **IT/ITES**
  - **Education**
  - **BFSI**
  - **Retail & Logistics / Transport**
  - **Healthcare & Hospitality**
  - **Enterprises**
  - **Events / Smart & Safe City**
  - **Power & Energy**
- **NetXGATE** offers the combination of NGFW, AAA & SD-WAN for multi branch connectivity, manageability & Control.
- The NGFW meets related compliance & feature sets so also a life time free analyzer as part of the product bundle.

NG Next-Generation Firewall (NGFW) Series

NGFW Offers :-

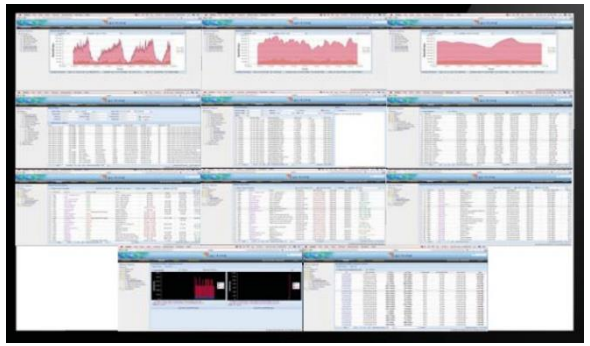
Perimeter Security | Cyber Security | LAN Security



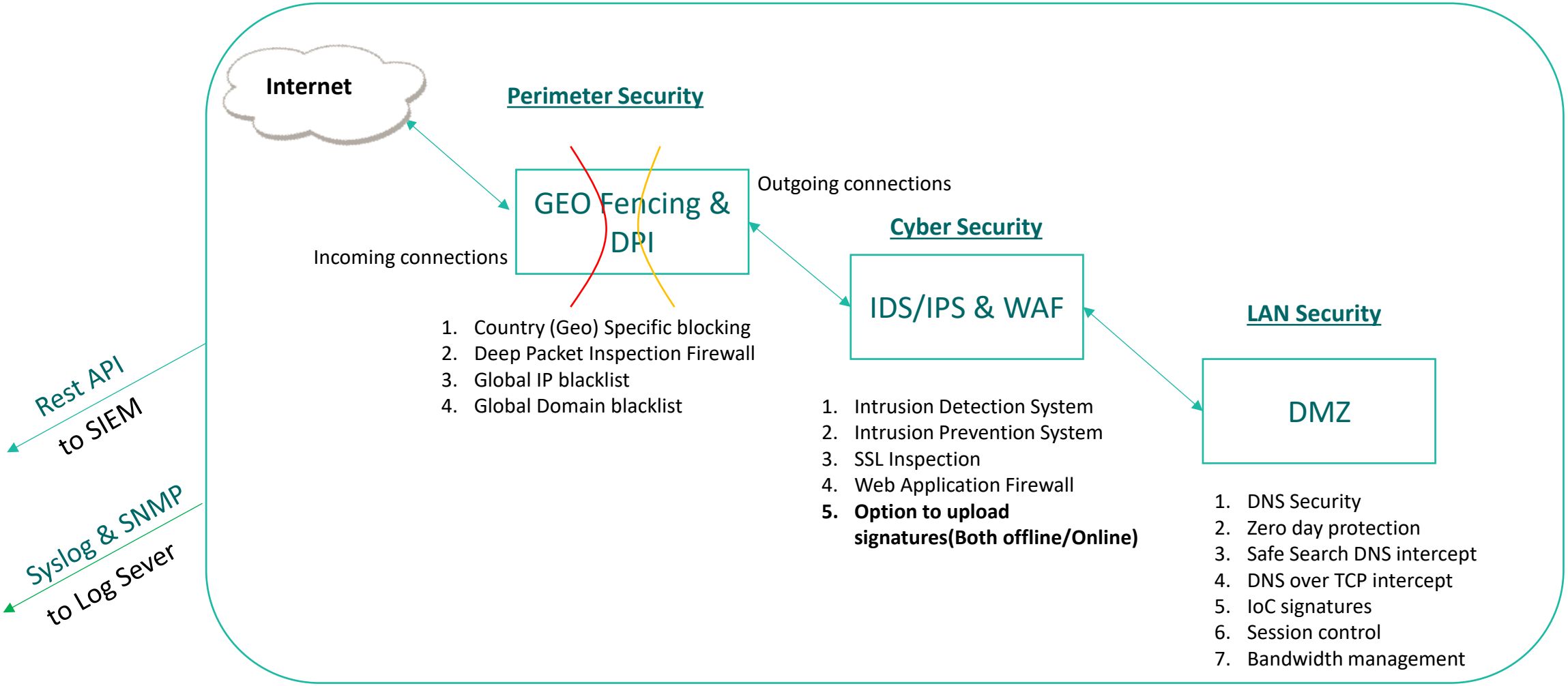
LAN / DMZ Network

- Only authorized users / devices are allowed to access Internet.
- Time, Usage and bandwidth based access to users.
- Multiple ISP link supported for Auto Load Balancing & Failover.
- Inbound load balancing distributes inbound Data traffic over Multiple WAN Link .
- Mobile Device blocking, Domain, URL, Application blocking
- Alert on failures and misuse of Internet.

Detailed User level logs and reports



Connection Flow with 3 Layers of Security

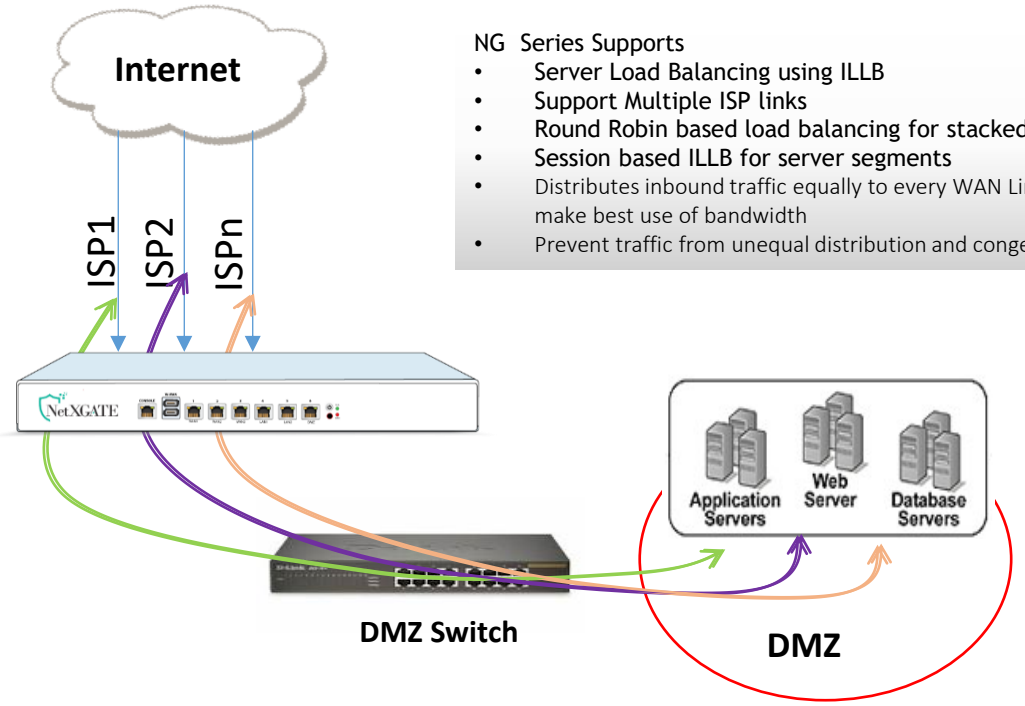


Link Load balancing

Maximize the Performance

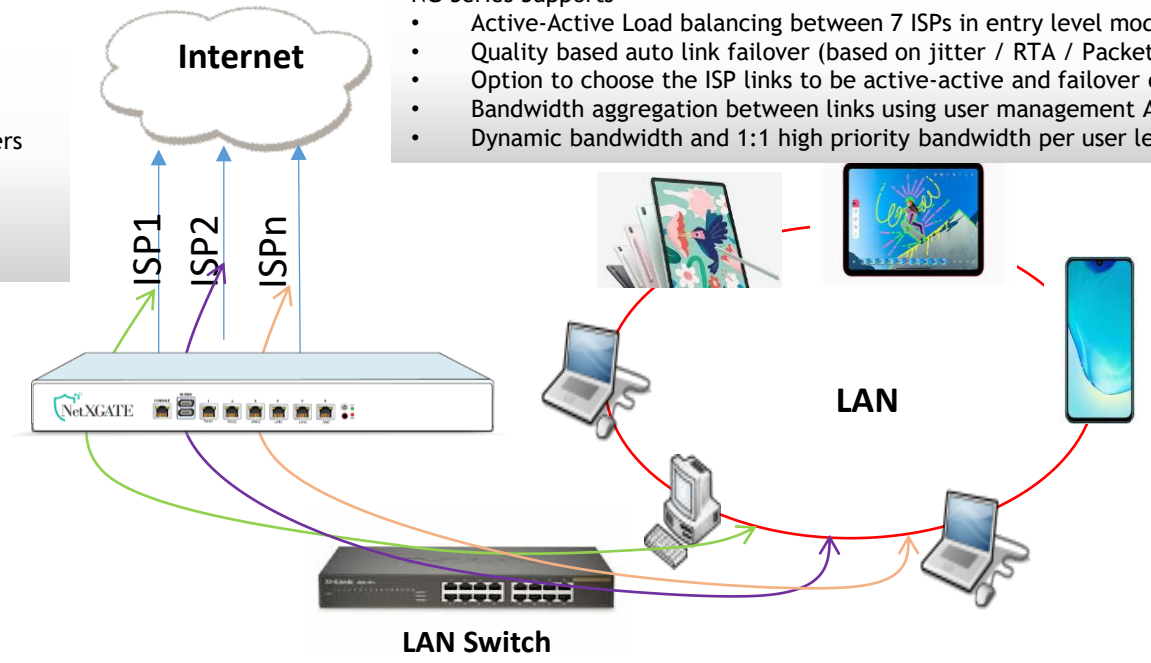
ILLB (Inbound Link Load Balancing)

NG Series Supports
- Server Load Balancing using ILLB
- Support Multiple ISP links
- Round Robin based load balancing for stacked servers
- Session based ILLB for server segments
- Distributes inbound traffic equally to every WAN Links to make best use of bandwidth
- Prevent traffic from unequal distribution and congestion.



WLLB (Active-Active Load Balancing)

NG Series Supports
- Active-Active Load balancing between 7 ISPs in entry level model
- Quality based auto link failover (based on jitter / RTA / Packet loss)
- Option to choose the ISP links to be active-active and failover only options
- Bandwidth aggregation between links using user management AAA module
- Dynamic bandwidth and 1:1 high priority bandwidth per user level



Why NetXGATE NGFW is special?

Device management Solutions

User management

Secure Connectivity

Easy UI

Security

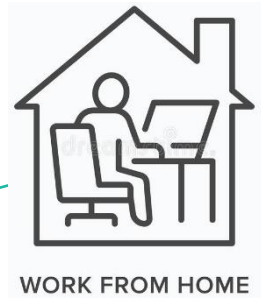
Manageability

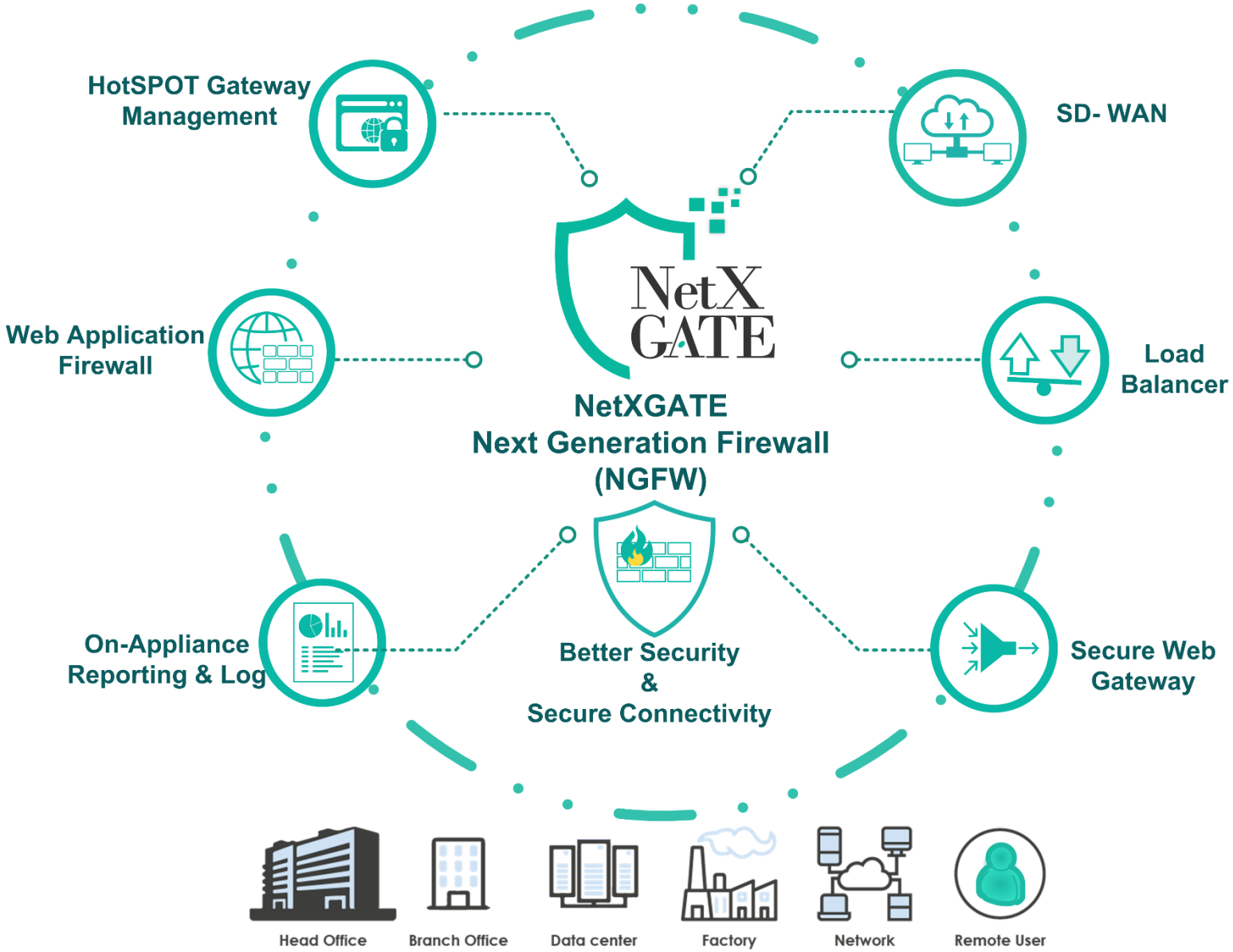
NetXGATE

Technical Support

Scalability

Free Analyzer




HotSPOT Gateway Management
SD- WAN
Web Application Firewall
Load Balancer
NetX GATE
NetXGATE
Next Generation Firewall
(NGFW)
On-Appliance Reporting & Log
Better Security
&
Secure Connectivity
Secure Web Gateway
Head Office
Branch Office
Data center
Factory
Network
Remote User
Appliance Range that covers your organization's

One Office - One Gateway

- ✓ Consolidate Networking, Security, SD-WAN & Monitoring into a single appliance.
- ✓ NetXGATE NGFW provide everything that you would need from user authentication to controlling Internet access. All basic networking services such as DHCP, DNS, NAT & Firewall are provided. So is an advanced IP router that can directly take a link from any ISP.

User Centric Controls

- ✓ Sick of creating policies based on IP addresses, VLAN ids & the like? NetXGATE NGFW offer a 100% User centric architecture. Every policy, be it a content filter or AAA , is configured around a user account . *In the end, you are dealing with people not IP addresses. A whole new way of managing your people & how they access the network, where and on which Device , OS & Browser*.*

Benefits at a Glance

NextGen All-In-One Platform

✓**Fully integrated Next-Gen Firewall feature set:** Unified firewall policy , web filter, Intrusion prevention system, Malware filter & GW Anti-virus, On-Appliance Log & reports .

✓**Control, Secure & Manage Internet Usage** with **Granular web & Application control** of network traffic for maximum network security.

✓ **Inbuilt AAA with Captive Portal-**Authenticate users & devices : Set who has access, where and on what device.

✓ **Inbuilt SD-WAN : Networking ,meet Security -** Simplify networking in a distributed org., Safe and secure access for offices, branches and remote sites.

✓**Signature database Updates-** Support both Offline and Online Mode (For Defense or Paramilitary forces)

✓**Improve Budget leverage by reducing** - HW and SW Licensing & Maintenance costs

✓**Security »Made in India «**

Secure HotSPOT Gateway (AAA)

To manage user access, enforce user policies and privileges, and measure the consumption of network resources.

Authentication, Authorization, and Accounting (AAA)

Users Login

NetXGATE Authenticates

- User Name/ID
- IP Address
- MAC Id

NetXGATE Authorizes

- Internet surfing quota
- Schedule control
- Security Policies
- Web Filtering
- Application Visibility & Control
- QoS / Bandwidth Management
- Device Control

NetXGATE Audits

- Real time Logs + Reports
- Compliance Reports

Control user network activities

- *Who can connect to the network*
- *How can Authenticate or Login*
- *Who can access what ,when & how much*
- *What have they accessed*

Ability to track the user activities; Identify attackers / victims

Take quick network security decisions

Control : Bandwidth , Time / Data Transfer Quota , & Account-Validity

- **Create a Bandwidth policy/ Time Policy / Data Transfer Quota Policy on a combination of**
  - *User or User Group*
  - *Mac , IP or IP Group*
  - *Allows great flexibility , visibility and control*
- **Bandwidth sharing : Reserved and Dynamic**
- **Schedule-based bandwidth allocation**

Bandwidth Management (Upload/Download)

- Allocate dedicated bandwidth

MD

Unlimited– Download
5 Mbps- Upload
Type – Reserved 5 Mbps

Faculty

5 Mbps – Download
2 Mbps- Upload
Type – Dynamic

Application Servers

2 Mbps – Download
1 Mbps - Upload
Night time - Unlimited

Time and Data Transfer Quota Management

•When user exceed the Data Transfer Quota or Time Quota Either it reduce the Bandwidth or disconnected from Internet.

Student
3GB / 24 Hour

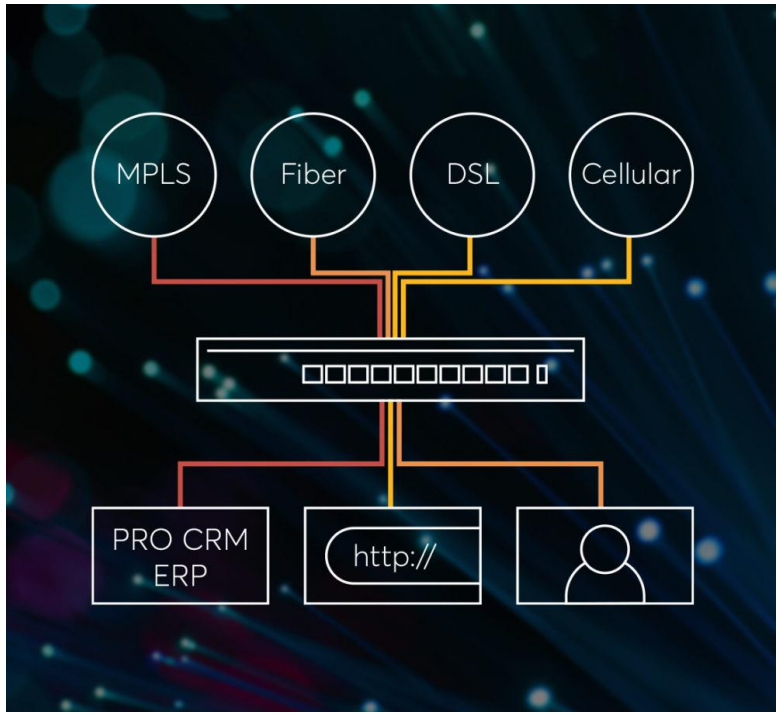
Staff
8 Hour / Day

Guest
Limited Access

Secure Access Gateway (SD-WAN)

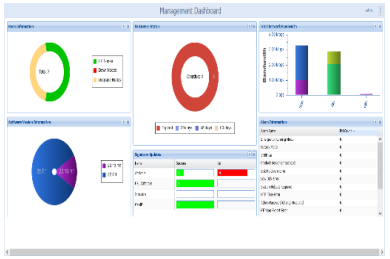
100% uptime to application servers

- By using encrypted tunnel, branch offices gain secure Local network access to cloud resources.
- SD-WAN makes these branch offices VPN faster and more affordable by combining the bandwidth of multiple connections into a single logical WAN connection.



NetXGATE SD-WAN

Get Comprehensive Security for a Branch Office

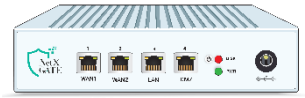


On premises

SDWAN Router (NG RED)

SDWAN Controller + Central Console

MPLS VPN
ILL
ADSL
Broadband
4G/5G



SDWAN I-Router + NGFW

In Cloud

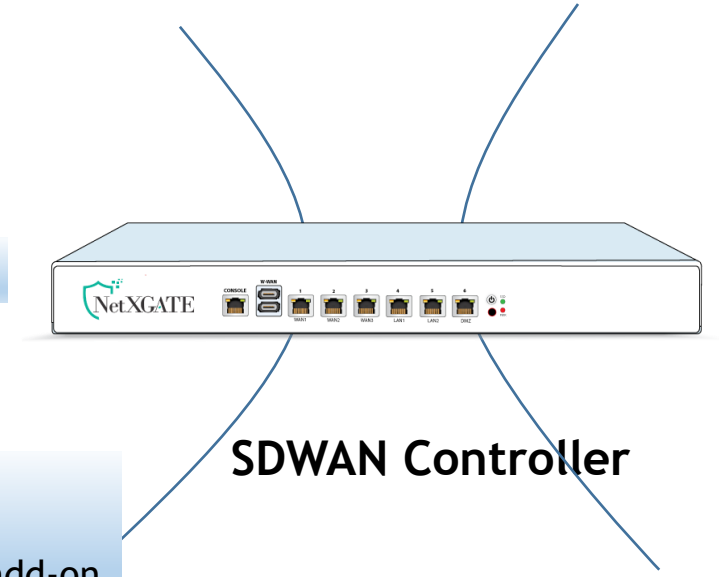
Tacitine SDWAN Virtual Platform

In Branch Locations

- No Fixed Static IP required
- Work with all Type of internet connection
- Support 4G / 5G USB Dongles*
- Support Wi-Fi Hotspot Devices (USB Tethering)
- Secure and high speed branch inter working (almost wire speed)

SD-WAN Controller

- Can be a separate Product



Data Plane

- Enterprise Tunnel
- Split Tunnel
- Application Tunnel
- WAN definition

- Can be a hosted in cloud
- Part of firewall as add-on
- Part of SD-WAN controller as add-on

- NetXGATE Proprietary control Plane

- Monitor / Manage / Control both RED SD-WAN Router & NGFW

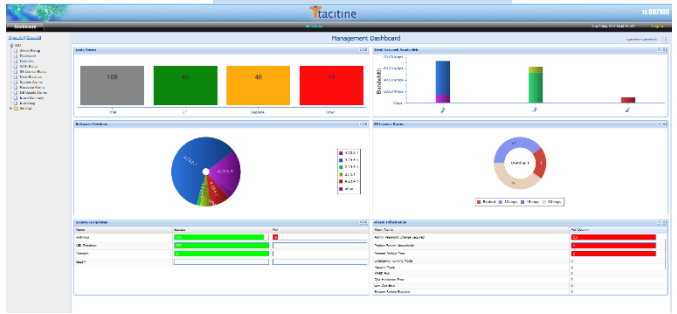
- Group control
- Role based login control
- No. of node monitoring control
- Login control (no. of login)
- Super admin and dashboard admin

Control Deployment Option
1. Appliance Based
2. VM (Virtual Instance)
3. Support for AWS, Azure, bare metal etc

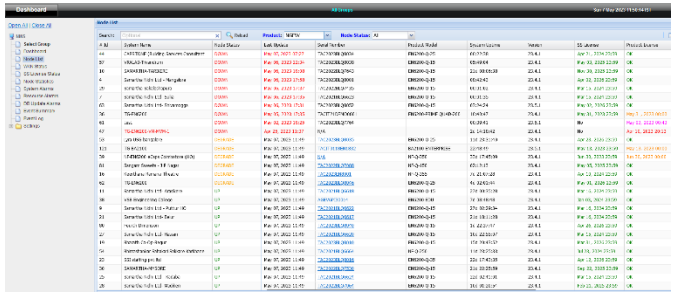
NMS & On-Appliance Logging and Reporting

Network Management System

NMS Dashboard



Node Status

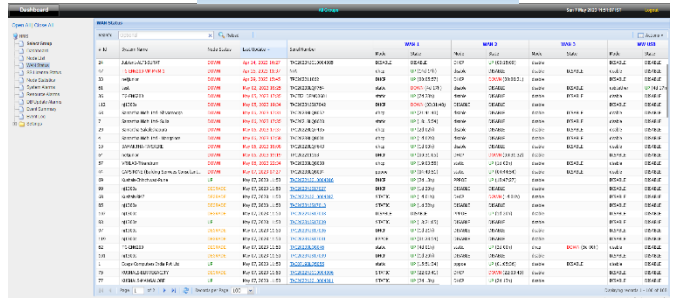


NMS Highlights

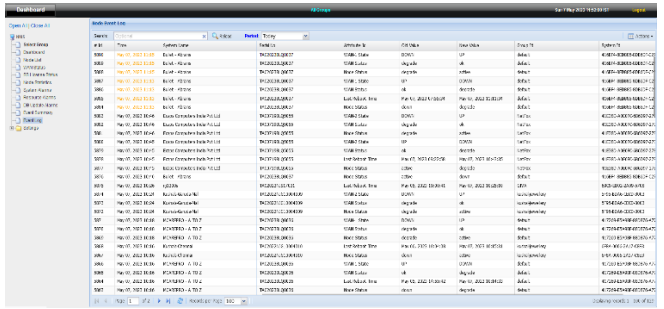
- Can be a hosted in cloud
- Part of NGFW as add-on
- NetxGATE Proprietary NMS
- Monitor/Manage/Control both Red Junior SD-WAN Router & NGFW
- Group control
- Role based login control
- No. of node monitoring control
- Login control (no. of login)
- Super admin and dashboard admin

- ✓ Will monitor only NetXGATE Cyber Security Products
- ✓ Groupwise Dashboard – Flash based on groups
- ✓ Zero Touch Provisioning
- ✓ Auto discovery of nodes based on NMS domain name
- ✓ Node Status with evet logs
- ✓ Configured WAN status (up|down|degrade) modes
- ✓ SS License status & Resource alarms
- ✓ Event logs summary & DB updates alarms

WAN (ISP) Status



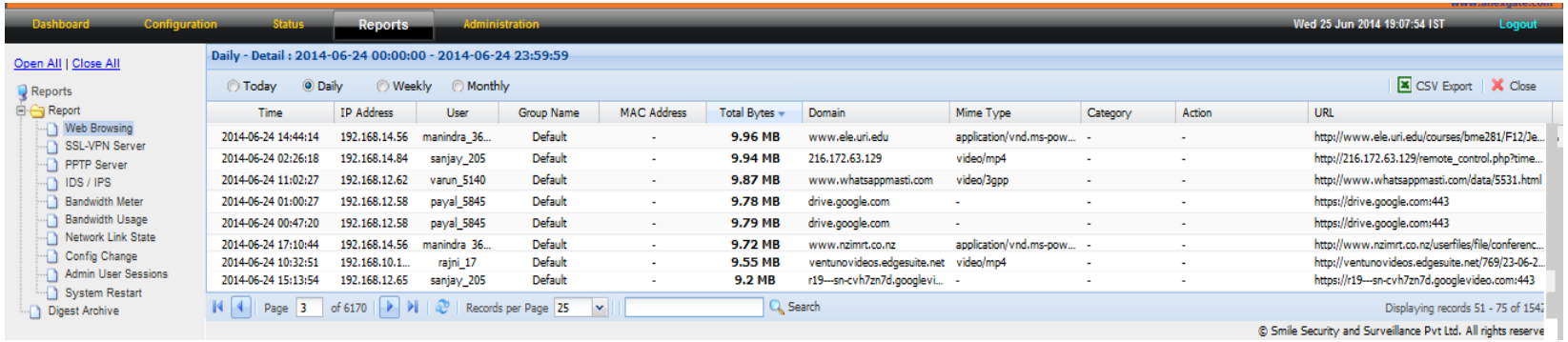
Event Log



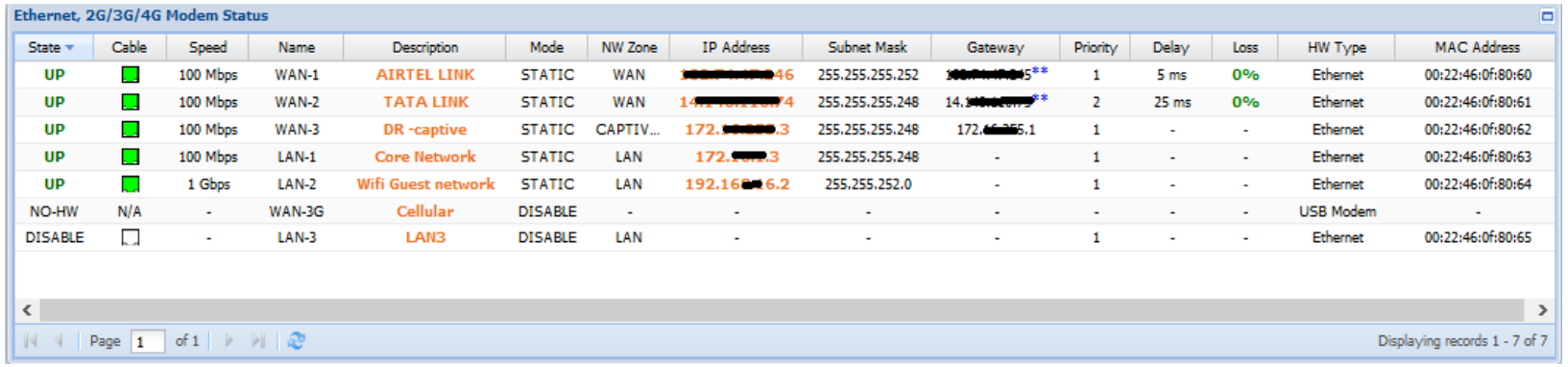
Reporting and Beyond: Need to know with just 1-click

Interface, Traffic & Security Dashboard

- Monitor network usage down to *application or user level*
- Historical web usage reports based on *users, sites visited*
- Monitoring reports for *SLA management*
- Network status view and *incident history*



Compliance Reports



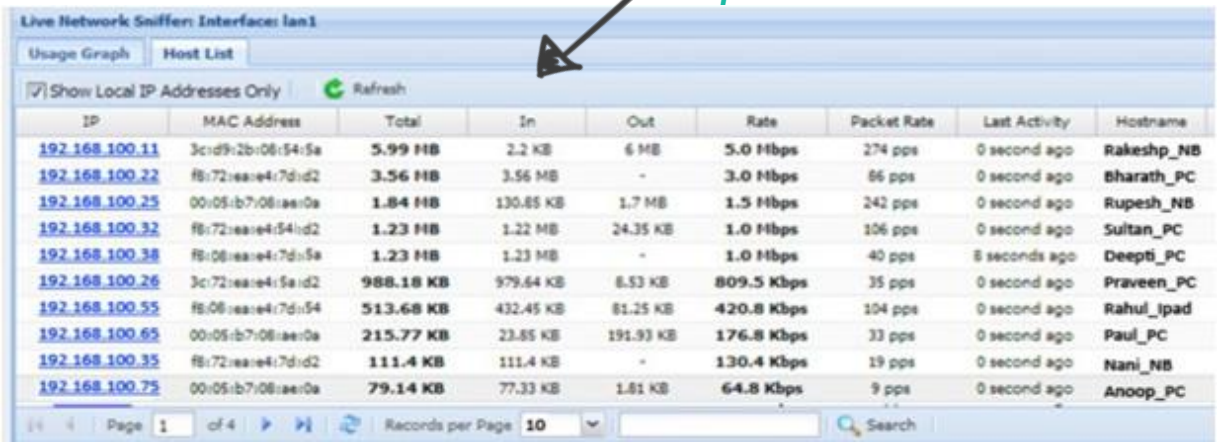
On-Appliance Intelligent Monitoring, Reporting & Visibility

- In-depth Widgets & Reports , Contextual Information
  - Real time visibility into user and network activities with per user summery
  - Identifying attackers/victims for quick corrective actions
- Helps with Security & Compliance management,
- Forensic Analysis capability

  -Enhanced reporting and analysis provides administrators with more intelligence on the behavior of their network, users, devices, applications and threats.
- Alert Manager warns whenever a specified event type or attack activity is detected

User and Network activities

Comprehensive reports



Live network Traffic

Our customers ..

Our customers ....(Nepal)

बनेपा नगरपालिका
बनेपा, नेपाल

SOALTEE
WESTEND PREMIER
NEPALGUNJ

Diamond Palace Lords PLAZA
Exhilarating Hospitality
Nepalgunj

HOTEL
BARAHI
KATHMANDU

सिद्धिचरण नगरपालिका
कोशी प्रदेश, ओखलढुंगा, नेपाल

Manmohan Memorial
Medical College
&
Teaching Hospital
(Managed By: Medi Pride Health Care Pvt. Ltd.)

चिकित्साशास्त्र अध्ययन संस्थान
INSTITUTE OF MEDICINE

महाराजगञ्ज चिकित्सा क्याम्पस
MAHARAJGUNJ MEDICAL CAMPUS

DGRC DECODE
Genomics and Research Center
Decode Your Health.....

Sukra
House of Diagnostics
& Wellness Center

Shree Gas Udhyog

Baba Gas Udhyog

Lumbini Gas Udhyog

LIT
Elite
Construction

Thank you