



AXSIS

**The Complete Hospitality Connectivity
Platform**

Secure ■ Seamless ■ Smart
Guest Connectivity

Slide Structure & Content

This brochure presents AXSIS as a comprehensive hospitality internet management platform, organized into distinct feature categories. Each section highlights the platform's capabilities in delivering exceptional guest experiences while maintaining operational excellence and compliance.

Identity & Authentication

Comprehensive AAA engine with multiple authentication methods

Policy & Control

Context-aware policy management and enforcement

Traffic Intelligence

Application-aware visibility and control

Bandwidth Management

Flexible QoS and shaping capabilities

Platform Overview

AXSIS is a **hospitality-focused identity-driven internet management platform** designed for hotels, resorts, serviced apartments, campuses, and convention centers. It combines authentication, policy control, billing, compliance, analytics, and guest experience management into one unified core platform.

Built for Hospitality

- Hotels and resorts
- Serviced apartments
- Campus environments
- Convention centers

Unified Platform

- Authentication and access control
- Policy management
- Billing and monetization
- Compliance and analytics



1 IDENTITY, AAA & AUTHENTICATION

Comprehensive authentication, authorization, and accounting capabilities designed for diverse guest and operational requirements.



Authentication, Authorization & Accounting (AAA) engine

Core AAA engine providing robust identity management



Attribute-based policy assignment

Dynamic policy application based on user attributes



Real-time session accounting

Live tracking of all active sessions and usage



Dynamic re-authorization

On-the-fly policy updates for active sessions



Identity correlation (User, Device, MAC, IP, Room, Location)

Complete identity mapping across all dimensions



Username / Password authentication

Traditional credential-based access control

Authentication Methods

MAC-based auto login

Seamless reconnection for returning devices

OTP authentication (SMS / Email)

One-time password delivery via multiple channels

Voucher / Coupon authentication

Code-based access for guests and events

QR-based onboarding

Quick scan-to-connect guest experience

PMS-linked authentication

Integration with property management systems

Social login authentication

Guest access via social media accounts

Corporate authentication

Enterprise credential integration

Approval-based access workflows

Managed access with authorization steps

Captcha-protected authentication

Bot prevention and security enhancement

Multi-factor admin authentication

Enhanced security for administrative access

Accounting-grade audit logs

Complete audit trail for compliance

2 POLICY & CONTEXT ENGINE

Sophisticated policy management engine that evaluates multiple contexts to deliver the right access experience to every guest and device.



Centralized policy definition engine

Single point of policy creation and management



Identity-based policy evaluation

Policies applied based on user identity



Application-context policies

Rules based on application usage patterns



Time-based policies

Scheduled policy enforcement



Location / NAS-based policies

Geographic and network-aware rules



Device-type aware policies

Differentiated treatment by device category



Usage-based policy triggers

Dynamic policy changes based on consumption



Policy inheritance and overrides

Hierarchical policy structure with exceptions



Policy conflict resolution

Intelligent handling of competing rules



Live policy enforcement on active sessions

Real-time policy updates without disconnection

3 APPLICATION & TRAFFIC INTELLIGENCE

Advanced traffic visibility and control capabilities that go beyond traditional port-based identification to deliver application-aware management.



Application identification beyond ports

Accurate app detection regardless of port usage

Application category classification

Organized grouping of applications by type

Encrypted traffic behavioral visibility

Insight into encrypted application behavior

Analytics & Control

- Per-application usage analytics
- Application-wise bandwidth control
- Application-wise priority enforcement
- Application-based access control

Intelligence Features

- Behavioral traffic analysis
- Identity-correlated traffic visibility

4 BANDWIDTH MANAGEMENT & QoS

Flexible bandwidth management and quality of service capabilities designed to deliver optimal guest experiences while maximizing network efficiency.

Tiered bandwidth profiles

Multiple service levels for different guest types

Committed bandwidth

Guaranteed minimum speeds for guests

Burstable bandwidth

Temporary speed boosts when available

Shared bandwidth quotas

Pool-based allocation across users

Dedicated bandwidth quotas

Individual allocations per user or room

Time-based bandwidth plans

Duration-limited access packages

Quota-based plans

Data volume-limited packages

Hybrid time + quota plans

Combined duration and volume limits

Peak / off-peak bandwidth rules

Time-of-day based speed adjustments

Fair Usage Policy

Equitable distribution of network resources

Bandwidth Enforcement

01

Per-user shaping

Individual bandwidth control for each guest

02

Per-room shaping

Aggregate control for all devices in a room

03

Per-SSID shaping

Network-wide bandwidth management by SSID

04

Firewall-integrated enforcement

Seamless policy application at the network edge

AXSIS provides **granular control** at every level of the network hierarchy, ensuring optimal performance for all guests while maintaining operational flexibility.

5 GUEST LIFECYCLE (Hospitality Focus)

Purpose-built guest lifecycle management designed specifically for hospitality environments, from check-in to check-out.

Guest check-in lifecycle

Automated provisioning at arrival

1

2

Guest check-out lifecycle

Automatic deprovisioning at departure

Room Management

- Room-to-port mapping
- Room-to-VLAN mapping
- Individual IP per room
- Multi-device per room policy
- Guest room change handling

Guest Services

- Guest self-service portal
- Guest tier management
- Wired ↔ wireless roaming

6 CAPTIVE PORTAL & EXPERIENCE

Customizable guest onboarding experiences that reflect your brand while delivering seamless connectivity.



Customizable captive portals

Fully branded guest login experiences



SSL-secured portals

Encrypted authentication for guest security



Device-aware portals

Optimized experience for each device type

BYOD onboarding

Bring-your-own-device support

SSID-based portals

Different portals per network

Time-based portals

Scheduled portal variations

Centralized portal for hotel groups

Unified branding across properties

Self-registration portals

Guest-initiated account creation

Branding & promotions

Marketing integration opportunities

Video advertisement scheduling

Monetization through pre-login ads

Walled garden

Pre-authentication access to select sites

MAC flush after logout

Clean session termination

7 BILLING & COMMERCIAL LOGIC (Hospitality)

Comprehensive billing capabilities designed for hospitality monetization strategies, from complimentary access to premium tiers.

Billing Models

Prepaid billing

Pay-before-use model

Postpaid billing

Pay-after-use model

Hour-based billing

Time-duration charging

Day-based billing

Daily rate packages

Quota-based billing

Data volume charging

Checkout-linked billing

Integration with room charges

Service Tiers

Complimentary plans

Free access for all guests

VIP plans

Premium guest experiences

Conference / banquet plans

Event-specific packages

Top-up support

Additional quota purchases

Invoice Management

1

Composite invoices

Combined billing for multiple services

2

Tax handling

Automated tax calculation and compliance

3

Discount handling

Promotional pricing and adjustments

4

Invoice cancellation

Reversal and correction capabilities

5

Billing protection for suspended users

Prevent charges during service suspension

6

PDF invoice delivery

Professional invoice generation and distribution

Complete billing lifecycle management with **flexible pricing models** and comprehensive invoice handling for hospitality operations.

PAYMENTS, COUPONS & MESSAGING

Integrated payment processing, coupon management, and guest communication capabilities for complete commercial operations.

Payment Processing

- Online payment collection
- Payment gateway abstraction
- Payment reconciliation

Coupon Management

- Coupon template branding
- Online coupon purchase
- Printable coupon generation
- Package-wise coupons
- Zone-wise coupons
- Coupon expiry & aging

Printing Support

- Thermal printer support
- Network printer support

Guest Messaging

Login alerts

Connection
notifications

Logout alerts

Disconnection
notifications

Expiry alerts

Service expiration
warnings

Billing alerts

Payment and invoice
notifications

Promotional messaging

Marketing communications

Message audit logs

Complete communication tracking

9 NETWORK CORE & ADDRESS MANAGEMENT

Integrated network services and address management capabilities that eliminate the need for separate infrastructure components.

Integrated firewall Built-in security enforcement	Firewall rule engine Flexible security policy definition	DHCP services Dynamic IP address assignment	DNS services Name resolution services
IP pool management Address space organization			

NAT & IP Support

- Smart NAT
- Source NAT management
- IPv4 support
- IPv6 support
- Dual-stack operation

Isolation & Diagnostics

- Client isolation
- Port isolation
- MAC-based policy control
- Diagnostics tools
- Packet capture

10 SECURITY & THREAT PROTECTION

Multi-layered security architecture protecting guests, property, and network infrastructure from evolving threats.



Stateful firewall

Connection-aware traffic filtering



DDoS mitigation

Distributed attack protection



Abuse detection

Identification of policy violations



Anomaly detection

Behavioral threat identification



Malware blocking

Malicious content prevention

Content Filtering & Safe Browsing



Web category filtering

Block access to inappropriate content categories



Custom deny pages

Branded messaging for blocked content



Safe search enforcement

Family-friendly search results



Security-triggered re-authorization

Automatic policy updates on threat detection



Secure admin access

Protected management interfaces

1 1 ADMIN, GOVERNANCE & CONTROL

Enterprise-grade administrative capabilities with role-based access control and comprehensive audit trails.

Role-based admin access

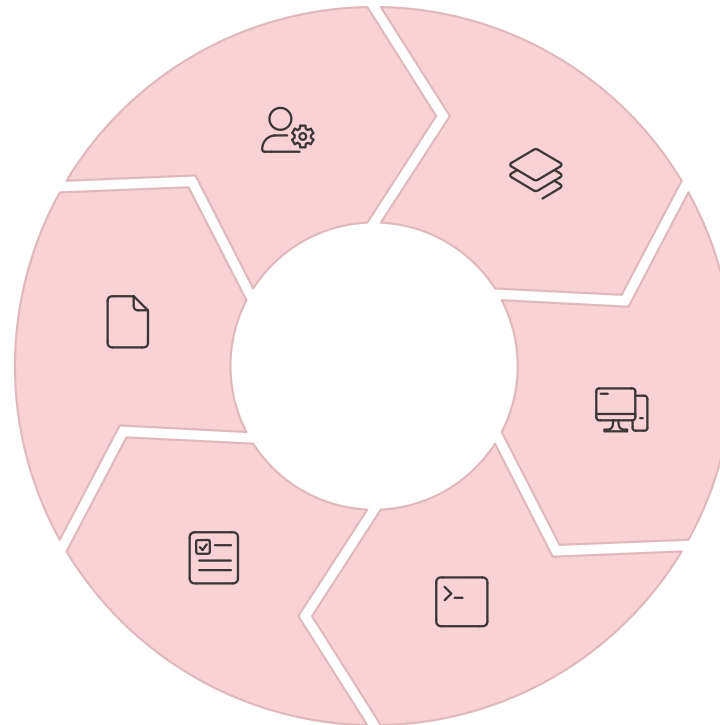
Granular permission management

Admin action accounting

Complete administrative audit trail

Access control lists

Fine-grained permission definitions



Multi-level administration

Hierarchical management structure

Admin GUI

Intuitive web-based interface

Admin CLI

Command-line management option

Governance Features

Configuration audit logs

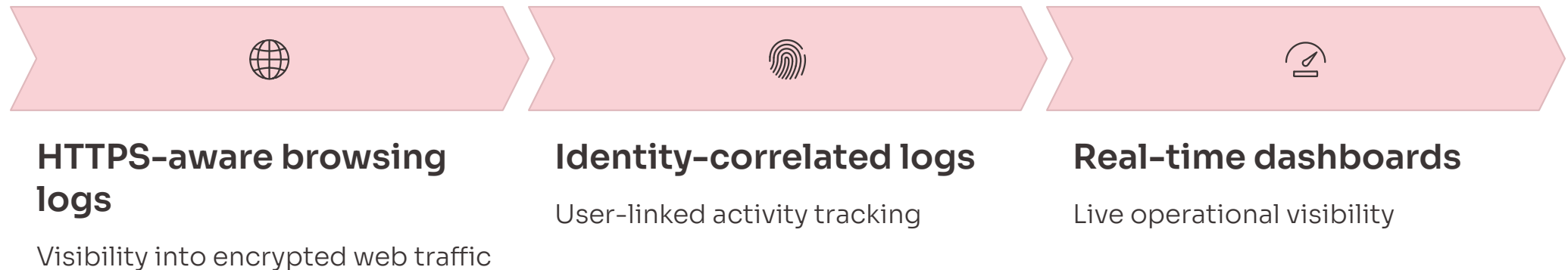
Separation of duties

Approval workflows

Comprehensive governance controls ensure **accountability** and **compliance** across all administrative activities.

1 2 ANALYTICS, LOGGING & COMPLIANCE

Comprehensive visibility and reporting capabilities designed for operational insight and regulatory compliance.



Analytics & Reporting

- Traffic analytics
- Usage analytics
- MIS reports
- BI reports
- CSV export
- PDF export
- Scheduled email reports

Integration & Compliance

- SNMP monitoring
- Syslog integration
- Lawful-interception-ready logging

Complete data collection and reporting infrastructure supporting both **operational excellence** and **regulatory requirements**.

1 3 INTEGRATIONS & ECOSYSTEM

Extensive integration capabilities enabling AXSIS to work seamlessly within your existing hospitality technology ecosystem.

PMS integrations

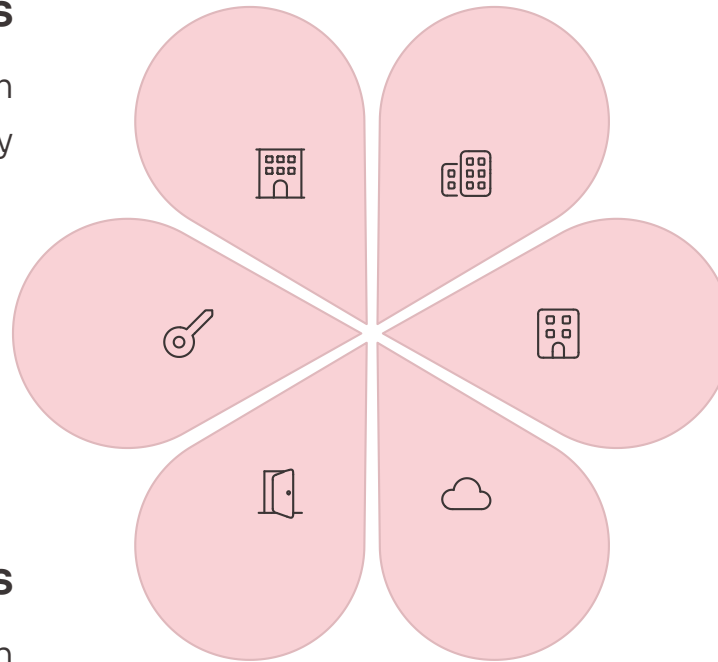
Property management system connectivity

External authentication systems

Enterprise identity provider support

External access controllers

Third-party access system integration



Multi-PMS support

Multiple PMS platforms simultaneously

Multi-hotel support

Centralized management across properties

Cloud PMS compatibility

Modern cloud-based PMS integration

Attribute mapping

Flexible data field translation

CRM integration

Customer relationship management connectivity

Device management integrations

MDM and device control platforms

External SIEM integration

Security information and event management

1 4 VPN & SECURE ACCESS

Enterprise-grade VPN capabilities for secure remote access and site-to-site connectivity.



Remote access VPN

Secure connectivity for remote users



IPsec support

Industry-standard encryption protocol



Tunnel mobility

Seamless roaming between networks



Certificate authentication

PKI-based secure access



IPv4 VPN support

Traditional IP addressing



IPv6 VPN support

Next-generation IP addressing

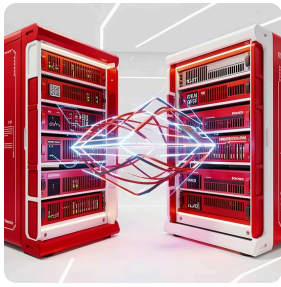
Reliability Features

- VPN redundancy
- VPN session logs

Complete VPN infrastructure for **secure remote access** and **site connectivity**.

1 5 HIGH AVAILABILITY & RESILIENCE

Ensuring uninterrupted service through robust architectural design, redundancy, and automated failover mechanisms.



Active-Active Clustering

Distributed load sharing and continuous operation for maximum uptime.



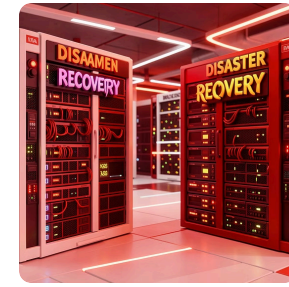
Active-Passive Failover

Instant takeover by a standby system upon primary component failure.



N+1 Redundancy

Guaranteed system availability with dedicated spare capacity for critical services.



DC-DR Architecture

Robust business continuity across geographically dispersed data centers.



Stateful Session Sync

Preserves all user sessions during failover for uninterrupted connectivity.



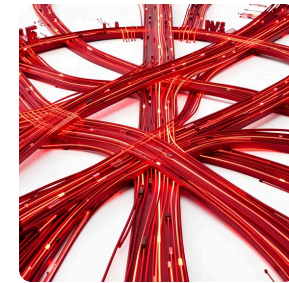
Automated Health Checks

Proactive monitoring for system and component status, ensuring readiness.



Automatic Failover

Seamless and uninterrupted service recovery without manual intervention.



Multi-ISP Load Balancing

Optimizes internet traffic distribution and ensures continuous network access.



Weight-Based Routing

Prioritizes network paths based on defined performance or capacity metrics.



ISP-Specific Policies

Tailored traffic management rules and QoS settings for each internet service provider.

Our infrastructure is built for maximum **reliability** and **resilience**, safeguarding your operations against potential disruptions.

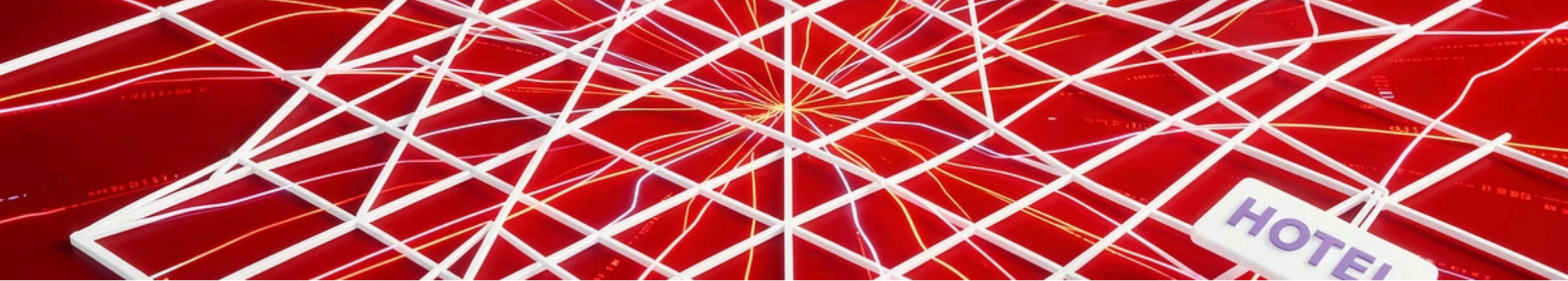
AXSIS Platform Scalability

The AXSIS platform offers a comprehensive range of models, meticulously engineered to meet the diverse scaling and performance requirements of any hospitality venue, from boutique hotels to expansive multi-property groups and enterprise backbones. Each model is designed to provide optimal performance, user capacity, and session management, ensuring seamless connectivity and operational efficiency at every level.

Below is a detailed breakdown of each AXSIS model, illustrating its target segment and technical specifications:

Model Name	Max Users	Max Throughput	Concurrent Sessions (Max NAT Table)	Segment
AXSIS Lite	150	Up to 150 Mbps	Up to 0.25M Sessions	Boutique Hotel
AXSIS Lite+	300	Up to 250 Mbps	Up to 0.50M Sessions	Business Hotel
AXSIS Access	700	Up to 750 Mbps	Up to 0.90M Sessions	Resort Property
AXSIS Nova	1500	Up to 1.5 Gbps	Up to 3.00M Sessions	Hotel Cluster
AXSIS Core	2500	Up to 2 Gbps	Up to 6.00M Sessions	Multi-Property Group
AXSIS Edge	3500	Up to 3 Gbps	Up to 10.00M Sessions	Hospitality Chain
AXSIS Pulse	6000	Up to 7 Gbps	Up to 20.00M Sessions	Mega Resort
AXSIS Zenith	10000	Up to 10 Gbps	Up to 40.00M Sessions	Hospitality Data Core
AXSIS Quantum	25000	Up to 20 Gbps	Up to 80.00M Sessions	Enterprise Backbone

Each AXSIS model is meticulously crafted to deliver robust performance and reliability, ensuring that every property, regardless of size or complexity, receives an optimized connectivity solution. This tiered approach allows for flexible deployment and easy upgrades as business needs evolve.



AXSIS: Hospitality Internet Access & Guest Experience Platform

AXSIS delivers a complete hospitality connectivity platform with integrated authentication, policy control, billing, compliance, analytics, and high availability — all included within the core architecture. Our unified platform eliminates the complexity of managing disparate systems, providing a seamless, secure, and resilient connectivity experience for both guests and operators.

Authentication

Secure and seamless guest/staff access.

Policy Control

Dynamic and contextual network management.

Billing

Flexible and transparent commercial models.

Compliance

Ensuring regulatory adherence and data privacy.

Analytics

Actionable insights for operational excellence.

High Availability

Guaranteed uninterrupted service delivery.

This holistic approach ensures that every aspect of hospitality connectivity is covered, from the moment a guest connects to the in-depth operational insights required for continuous improvement. Experience unparalleled reliability, control, and guest satisfaction with AXSIS.

Get in Touch

Need Immediate Assistance?

Our friendly team is available Mon-Sat, 9 AM
- 6 PM IST

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About AXSIS

AXSIS is a unified access intelligence platform designed for hospitality and managed network environments, delivering comprehensive AAA, billing, policy control, secure access gateway capabilities, and managed Wi-Fi with advanced captive portal solutions.

It is purpose-built for hotels, resorts, serviced apartments, public Wi-Fi hotspots, airports, malls, smart cities, educational institutions, healthcare facilities, enterprises, and large campus environments requiring secure, scalable, and compliant internet access management.