

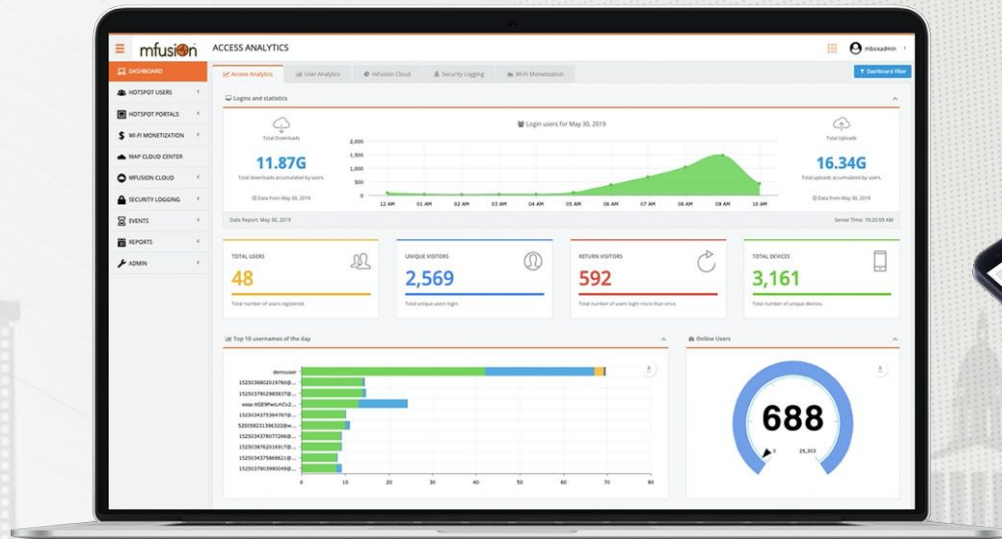


mbox™

mfusion

mlog

mpower • monetize • monitor • manage



RansNet is empowering more than **5 million user logins** daily
and connecting more than **5000 businesses** globally.

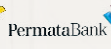
Sectors

Satisfied Clients

Government



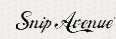
Banks



Hospitalities



Retails



F&B



Tourism



Education



mProduct Solutions

WI-FI MONETISATION

Get the most out of Wi-Fi

HotSpot
Gateway

Cloud
Ads

mfusion

HotSpot
Access

Cloud
Managed
Gateway

SD-WAN

Easy & Secure Connect
over any WAN

HotSpot
Gateway

HotSpot Gateway

- Captive portal
- Premium Wi-Fi
- User engagement
- User access control
- Wi-Fi marketing
- OpenAPI Integration | PMS/CRM

mfusion

Manage & Monitor

- Cloud monitoring/management
- Online web dashboard
- Fault/threshold alert, scheduled reports
- Online firmware patching/updates
- Remote config management

HotSpot
Access

HotSpot Access

- M2M & SD-WAN Appliance
- Dual LTE/4G/5G
- Dual Band AC Wi-Fi

Cloud
Ads

Wi-Fi Advertising

- Push Ads Via Wi-Fi
 - Login page Ads
 - Location-based Ads
 - In-session Ads Injection
- Ads analytics reporting
- Sell Wi-Fi Ads space to 3rd parties

Cloud
Managed
Gateway

Cloud Managed Gateway

- Router & Multi-WAN Link Balancer
- Multi-protocol VPN
- Bandwidth Control (QoS)
- Stateful firewall
- High availability
- Dynamic routing

Wi-Fi HotSpot Solutions

HotSpot Gateway, Wi-Fi Monetization, Enterprise Access Points

Traditional HotSpot



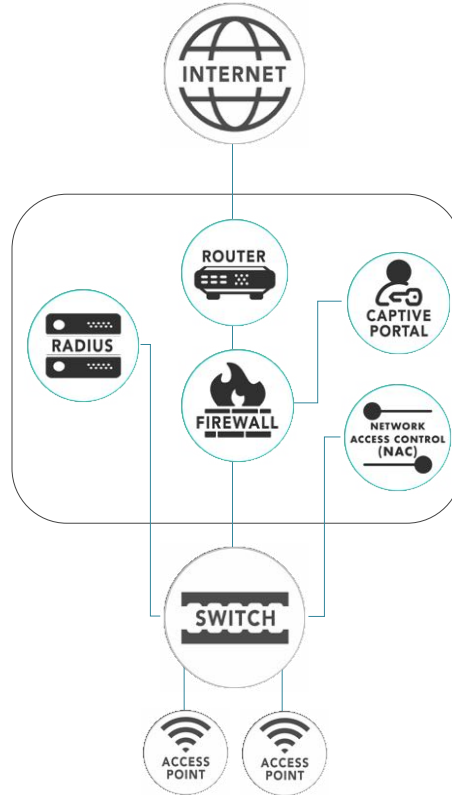
RansNet HotSpot Gateway (HSG)

Traditional HotSpot

1. Internet router
2. Stateful firewall
3. Captive portal server
4. AAA/RADIUS server
5. Network access control

Challenges

- too much integrations
- very hard to manage
- very high costs



HSG + 1 for HA

RansNet HSG

- All-in-one dedicated appliance
- Wi-Fi monetization
- extensive API integrations
- Cloud manageable

Benefits

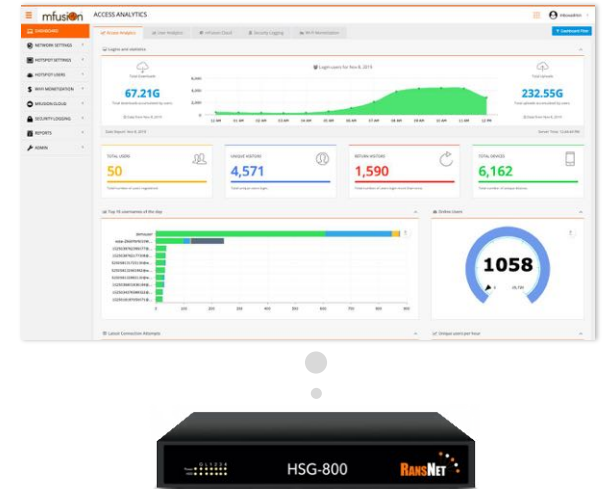
- easy to deploy & manage
- reduce costs
- increase returns

HSG Key Features

- **Cloud Manageable** | High Performance HotSpot Gateway
- **Built-in AAA/RADIUS** server with **User Data Analytics** Dashboard
- **Customizable** Captive Portals | Various Integrations - PMS | API | POS | Social Media | SMS/Email
- Full-featured **Access Control** - Time | Quota | QoS | Dynamic Bandwidth Control | Personal Area Network
- Vendor agnostic - support **hotspot control for any 3rd-party AP** (*expect AP config*)
- **Wi-Fi monetization** gateway

Target Customers

- **Hospitalities** - Hotels | Hostels | Hospitals
- **Malls** | **Airports** | **Stadiums** | **Tourism**

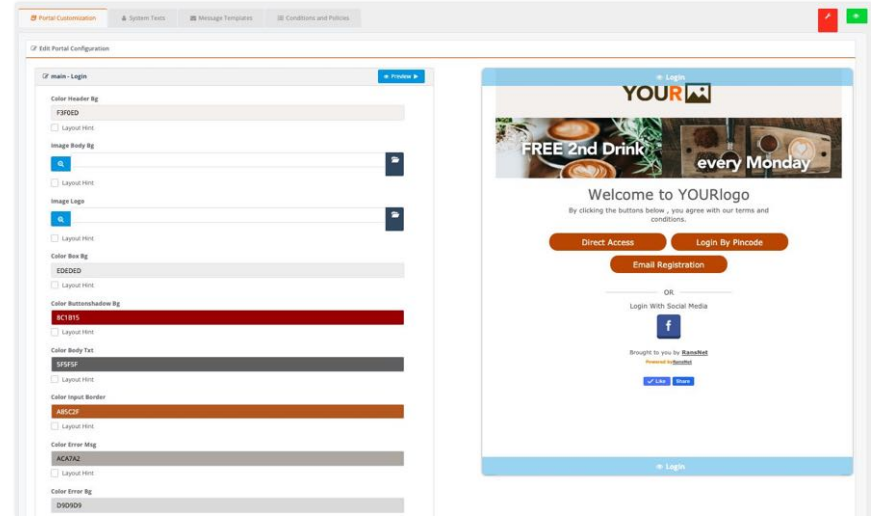
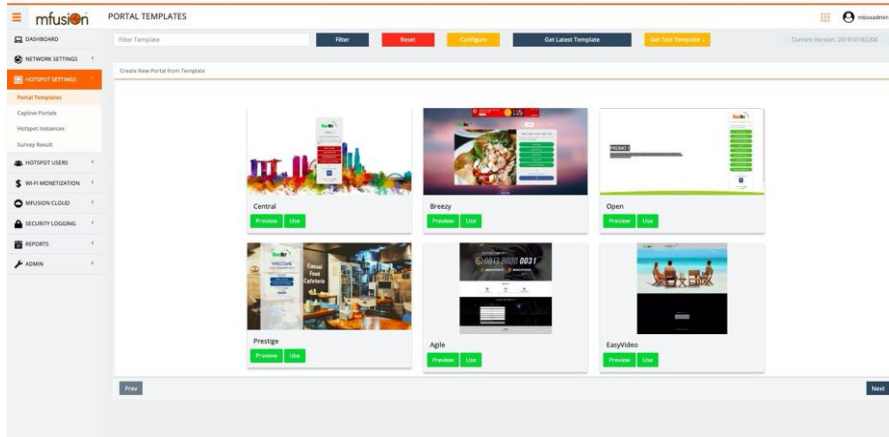




HSG: Customizable Branding Portals

Customise captive portals via CMS templates

- Built-in design templates for various use cases
- Web-based CMS for easy customization
 - ∞ Customize sign-in options
 - ∞ Customize look-and-feel (images, text, color, etc)



HSG: Extensive User Authentication Options



Direct Access (ToS)

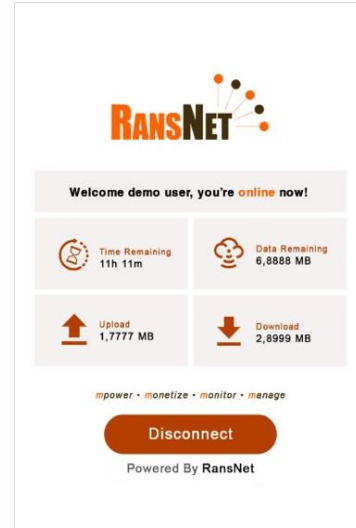
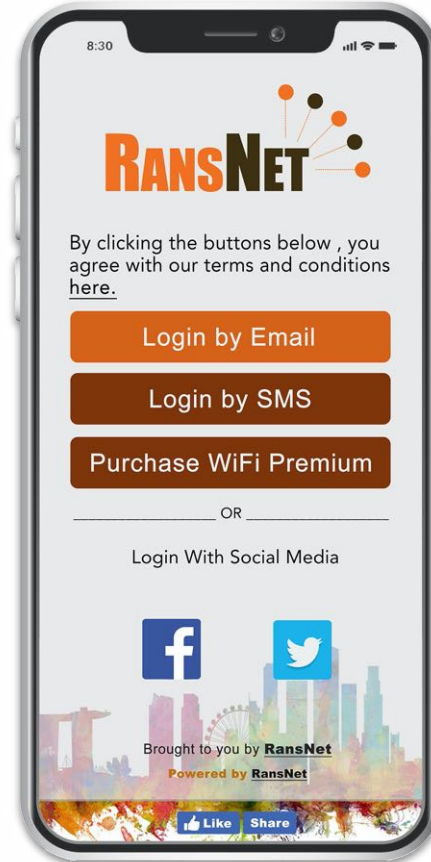
Social Media
Integration

Email or SMS OTP

QR Code/Apps login

Payment Gateway

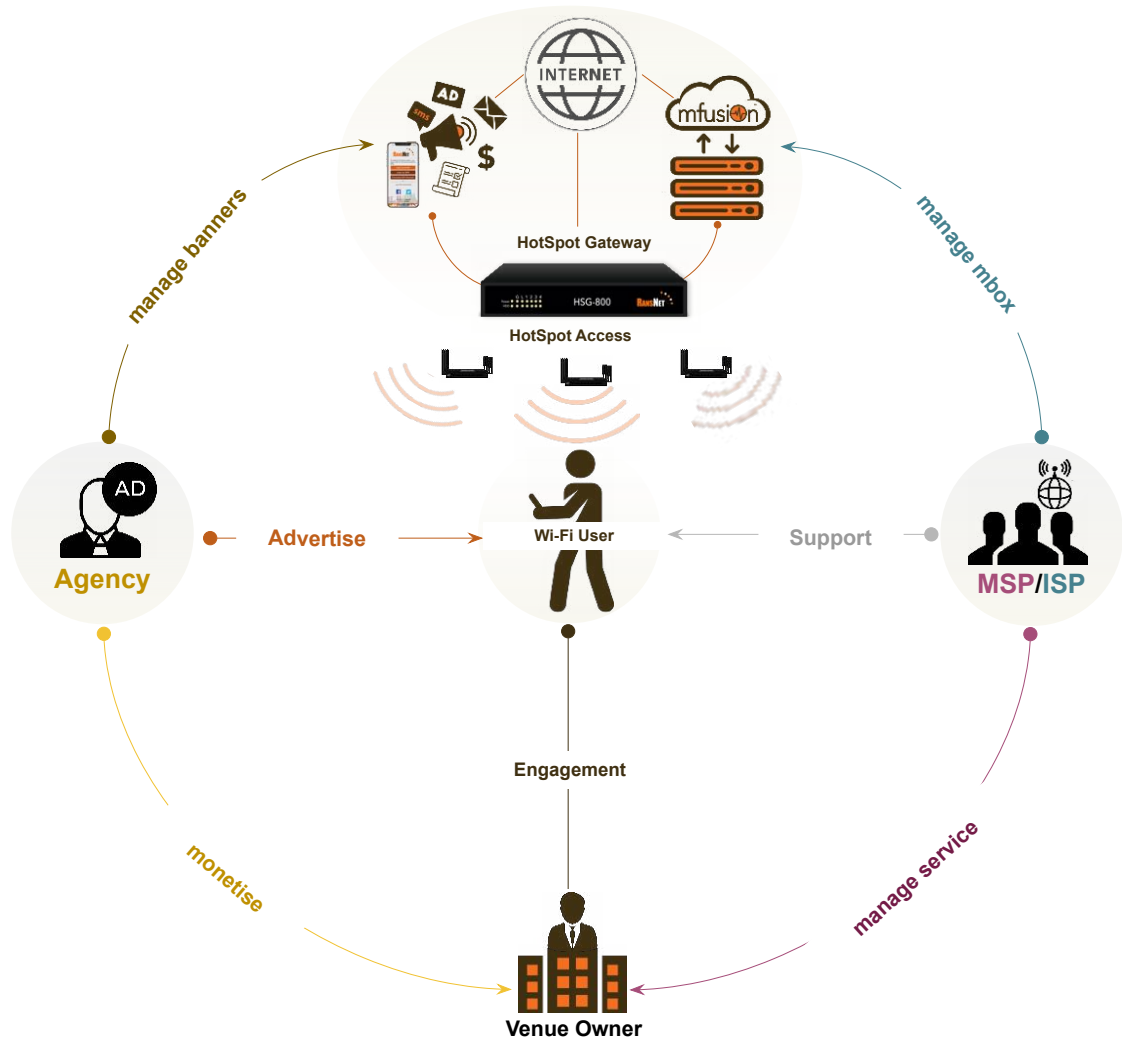
API/PMS/POS
integration



Hotel PMS (Opera) Integration



mPowered Hotspot Ecosystem

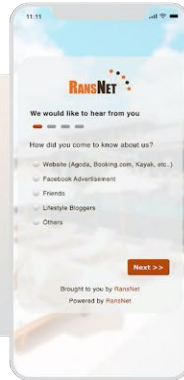


Wi-Fi Monetization – Get the most out of Wi-Fi

1 SSID Naming Rights



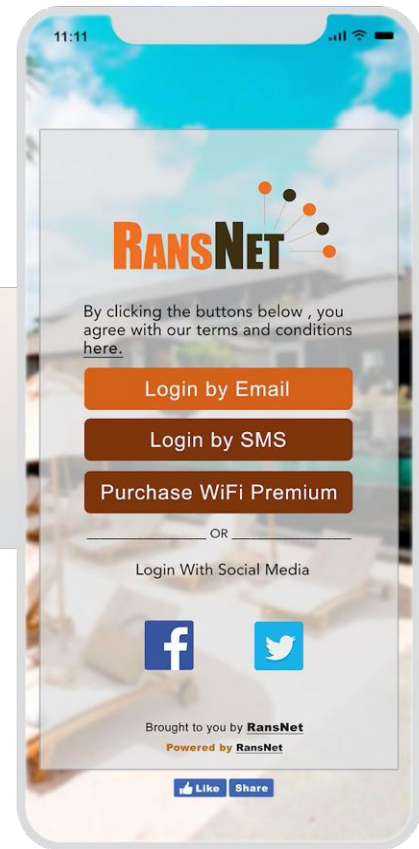
2 Pre-login Survey



3 Pre-login Push Ad (Image/ Video Banner)



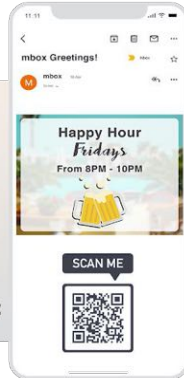
4 Splash Portal Branding



7 Push Ads



6 Online /Offline Email & SMS Engagement



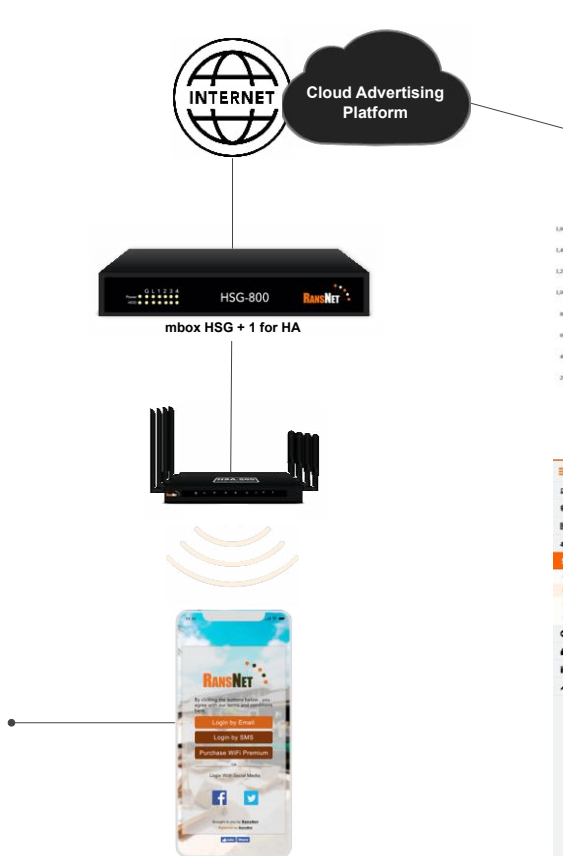
5 URL Redirection based on Login Profile





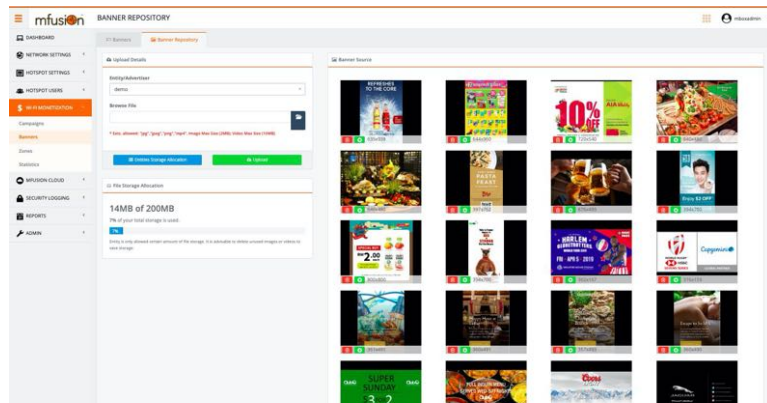
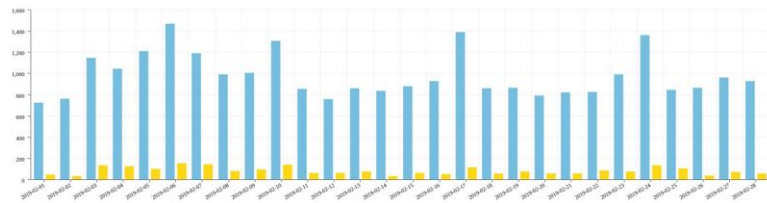
Stream Ads at Fingertips

- Login-page Ads
- In-session Ads

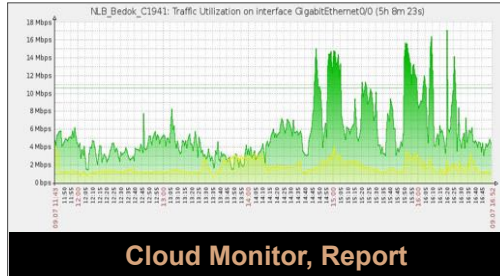


Centrally Manage Your Campaigns

- create and schedule campaigns
- upload ads banner contents
- push campaigns to target zones
- report impression counts and click-thru



Complete end-to-end Wi-Fi solution!



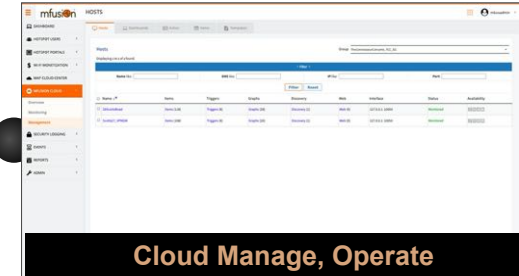
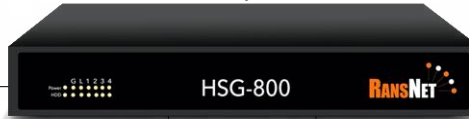
- Monitor and report network status and utilization
- Alert on failures or thresholds
- Report historical patterns based on schedules



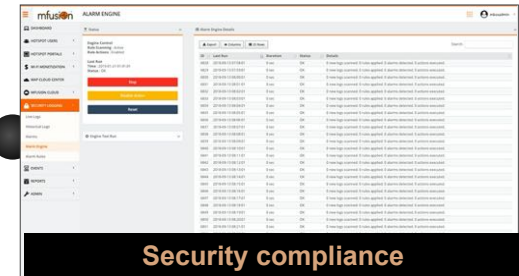
- Authenticate & control user accesses
- Collect user profiles and contacts
- Analyze and report user behaviors
- Run marketing campaigns



Internet Link

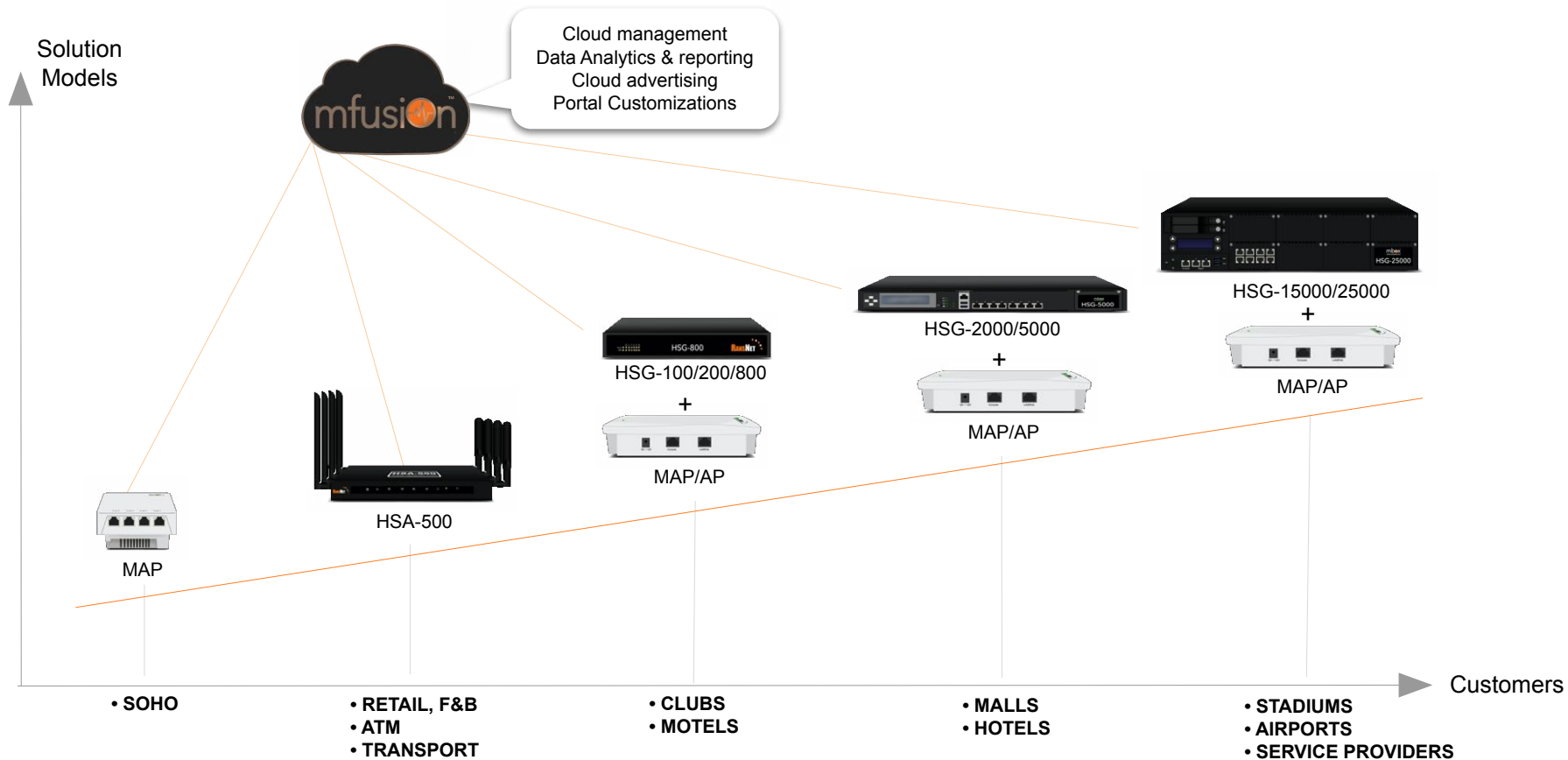


- Remotely access all mbox config via web
- Configure and manage mass nodes at ease
- Patch and upgrade firmware centrally



- Collect access logs
- Detect & alarm anomalies
- Report for compliances
- Store logs for forensic investigations

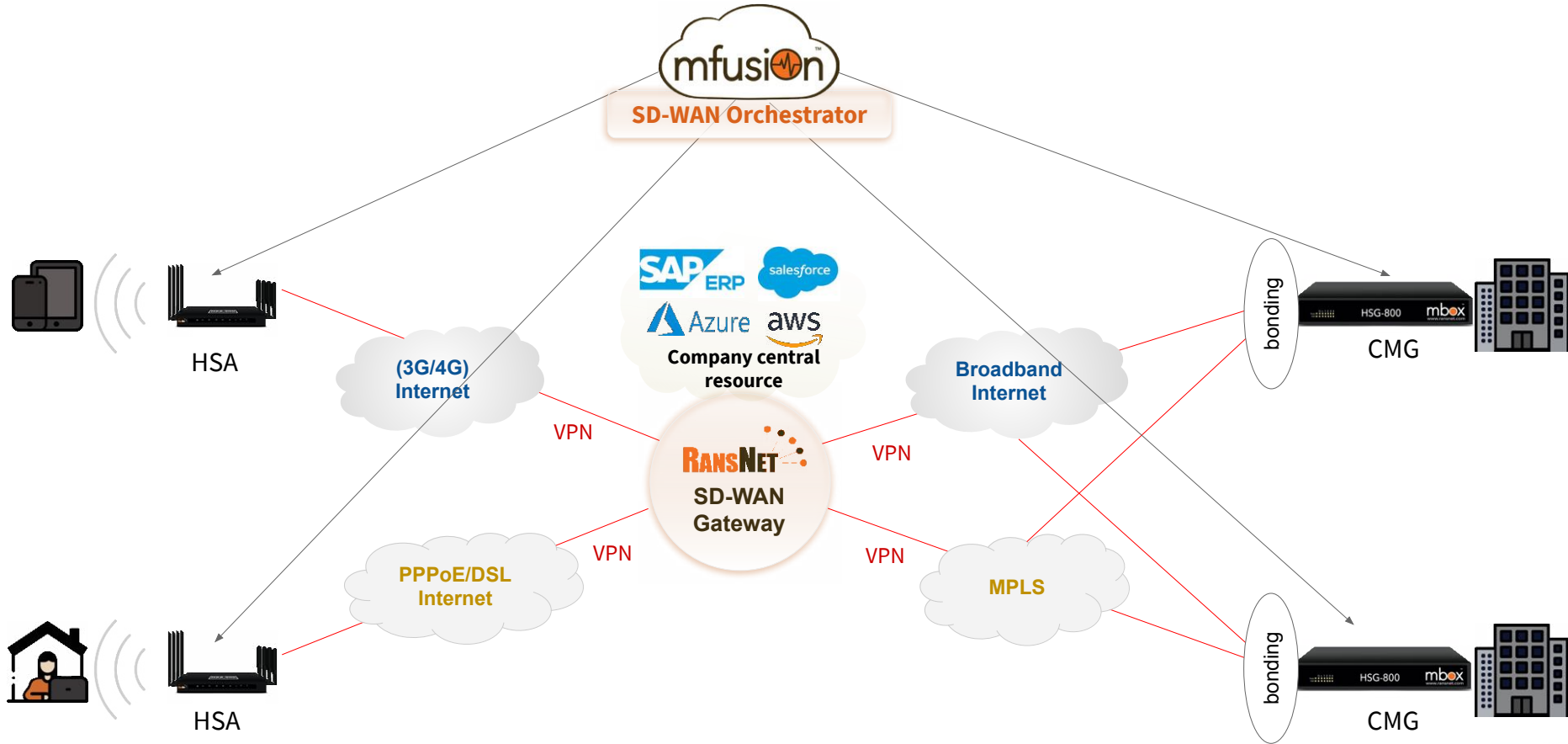
Models & Positioning



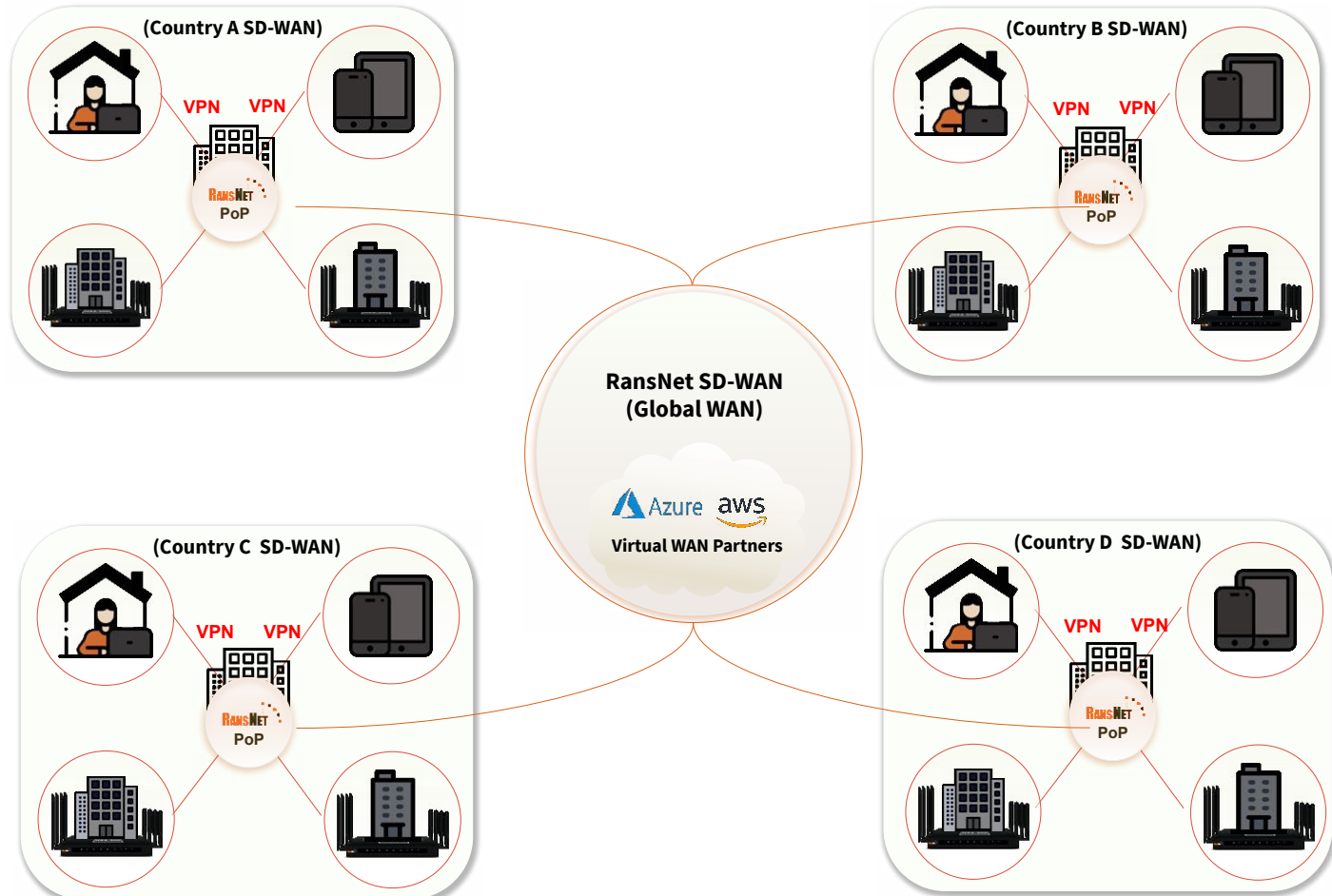
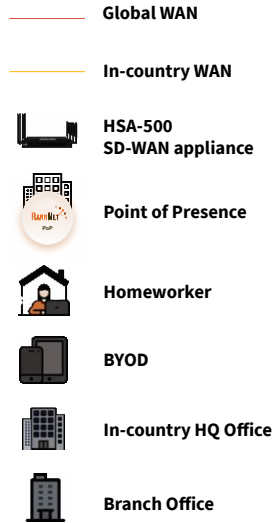
SD-WAN Solutions

Cloud Managed Gateway, HotSpot Access, mfusion orchestrator

Secure and Simple SD-WAN



RansNet Managed SD-WAN Services



Cloud Managed Gateway (CMG) - SD-WAN Gateway

- High throughput, high scalability
- Enterprise router & firewall, dynamic routing (OSPF/BGP)
- Multi-WAN link balancer
- Multi-protocol VPN gateway (IPSec, SSL, GRE)
- Granular bandwidth control (QoS)
- mfusion for cloud management

Target customers

- ISP/MSP offering reliable Internet services
- Enterprises needing redundant ISP links
- HQ supporting mass remote branches



SD-WAN router with Wi-Fi HotSpot

Qualcomm 4-core processor
Up to 500Mbps throughput
Multi-WAN bonding
Multi-VPN tunneling
Dynamic routing (OSPF/BGP)

WAN Port

Supporting any WAN
(Fiber/MPLS/PPPoE)

Dual-band Wi-Fi

Wi-Fi antennas
IEEE802.11
a/b/g/n/ac

3G/4G Interface

3G/4G antennas to provide
strong signals

Dual Sim (Micro)

Built-in LTE modules with
direct SIM support
Active-Active/Bonding

Console Port

Console Access

4 x GE Ports

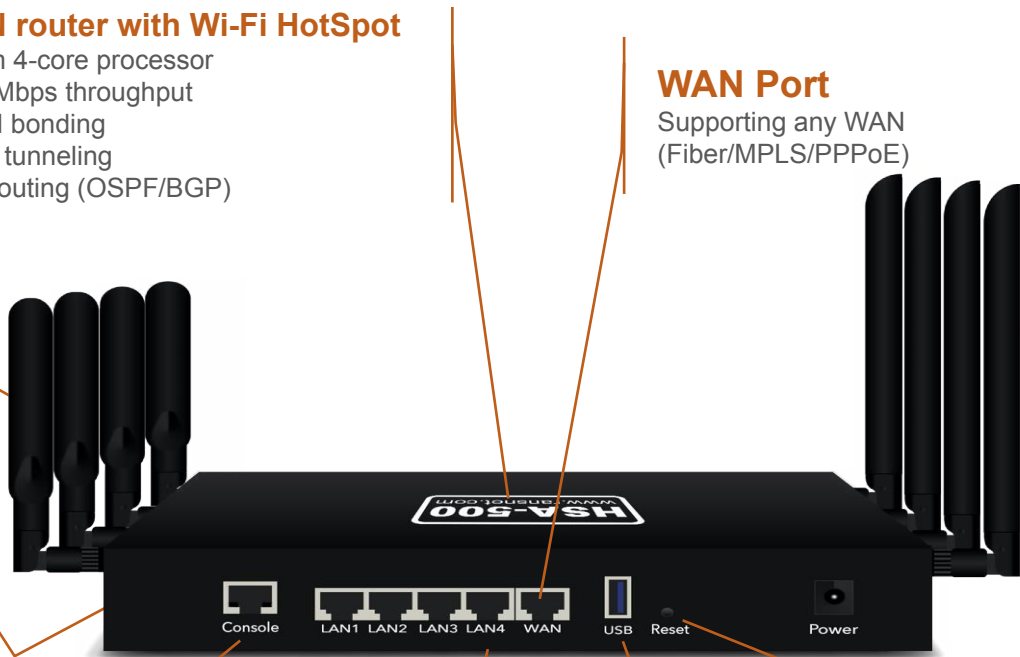
Offer access for local
devices with VLAN

USB Port

Efficient data and
configuration updates

Restore Buttons

High reliability with reset
button and one-key
recovery button



HSA-500 SD-WAN Remote Series Key Feature

- **Links to any WAN**

Internet | MPLS | LL | Ethernet | LTE | Wi-Fi

- **Connects to local devices**

Wired or wireless

- **Balances multiple ISP links**

Multi-WAN link Balancing, Auto failover

- **Multi-homes critical networks**

BGP, OSPF, Policy based routing, VRRP

- **Prioritizes critical applications**

QoS for VIP users or critical applications

- **Encrypts business transactions**

Multi-protocol VPN (IPSec, SSL, GRE)

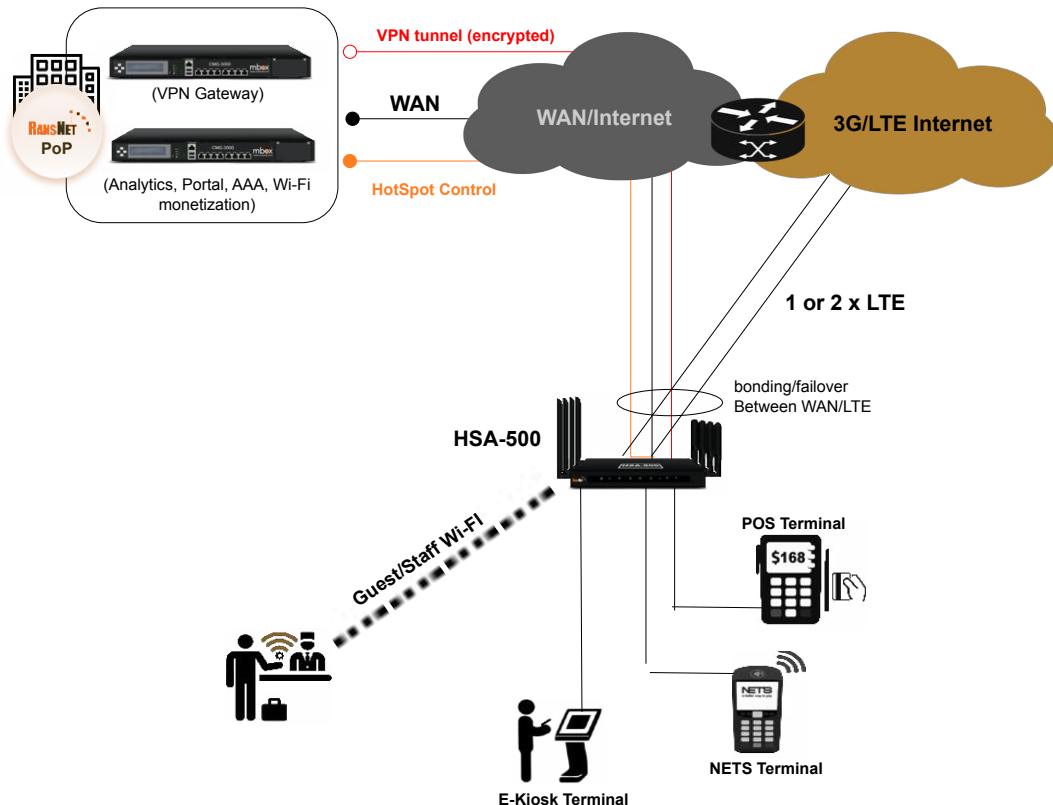
- **Monetises Wi-Fi infra**

Captive portal, advertising Engines

- **SD-WAN Orchestrator**

Centralized config management, business visibility

HSA: Converging SD-WAN and HotSpot Solution



Key Components (per store)

- HSA-500, 1 x WAN (primary), 2 x LTE (optional, for backup)

Solution Features

- Redundant WAN using fixed and mobile (active/active, active/standby)
- Auto failover between fixed and mobile
- Multiple LAN ports for local terminals (eg. POS, IPT, PC, etc).
- Secure SD-WAN/VPN tunnel as alternative to traditional MPLS
- Integrated Wireless 802.11b/g/n/ac for guest WiFi and monetization
 - Social media integration to capture guest profiles
 - CRM/POS integration for premium Wi-Fi
 - WiFi user data analytics and database collection
 - Location/time based ads streaming
- POS/Business traffic can route through VPN tunnel
- Guest Wi-Fi traffic will locally breakout
- Stateful firewall inspection for perimeter security protection
- Integration with mfusion for large SD-WAN deployments

Solution Benefits

- Resilient, secure and cost-effective all-in-one SD-WAN solution
- Secure business transactions with Integrated Wi-Fi monetization
- Service visibility and easy operational management

HSA-500: Wi-Fi On The Go

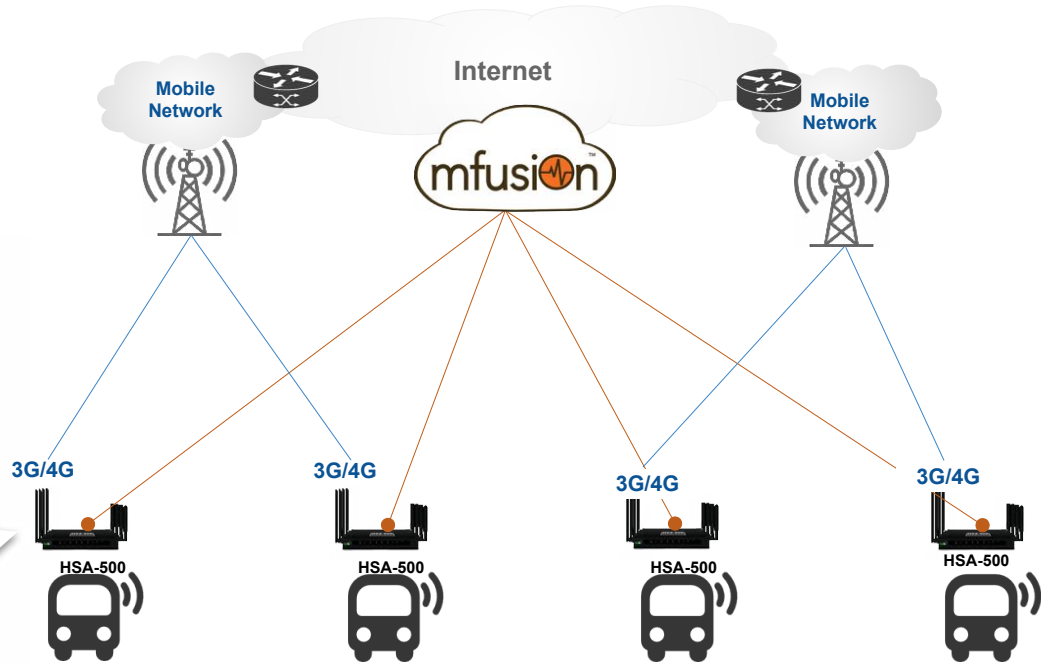
Cloud mfusion

- cloud captive portal for Wi-Fi login
- central user database and analytics
- cloud advertising platform
- cloud monitoring and config management

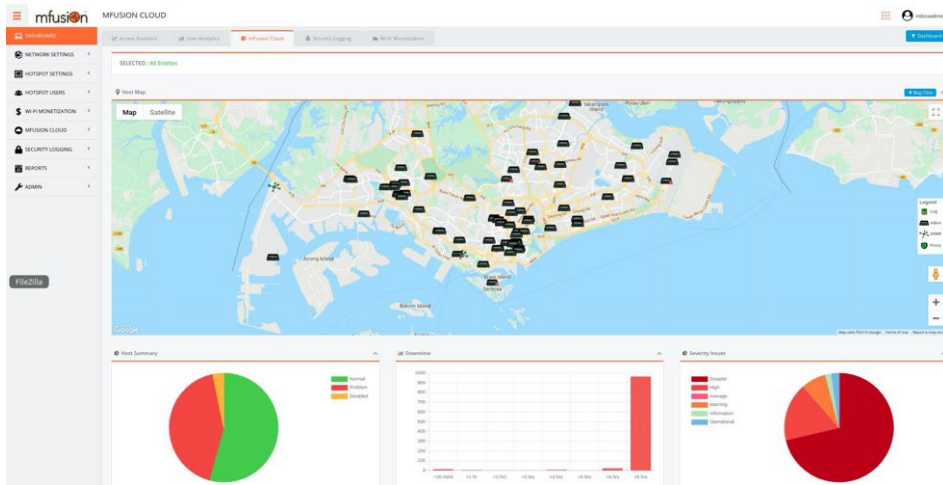
HSA-500L2

(dual SIM, 802.11ac Wi-Fi)

- Resilient mobile backhaul (4G bonding)
- Built-in dual-band Wi-Fi (AC, Wave 2)
- Captive portal for branding and security
- **CCTV surveillance**
- **Bus route tracking/planning**
- **Wi-Fi monetization engine**
- **On-board music/video streaming**



mfusion: super-tenant SD-WAN Orchestrator



Executive dashboard

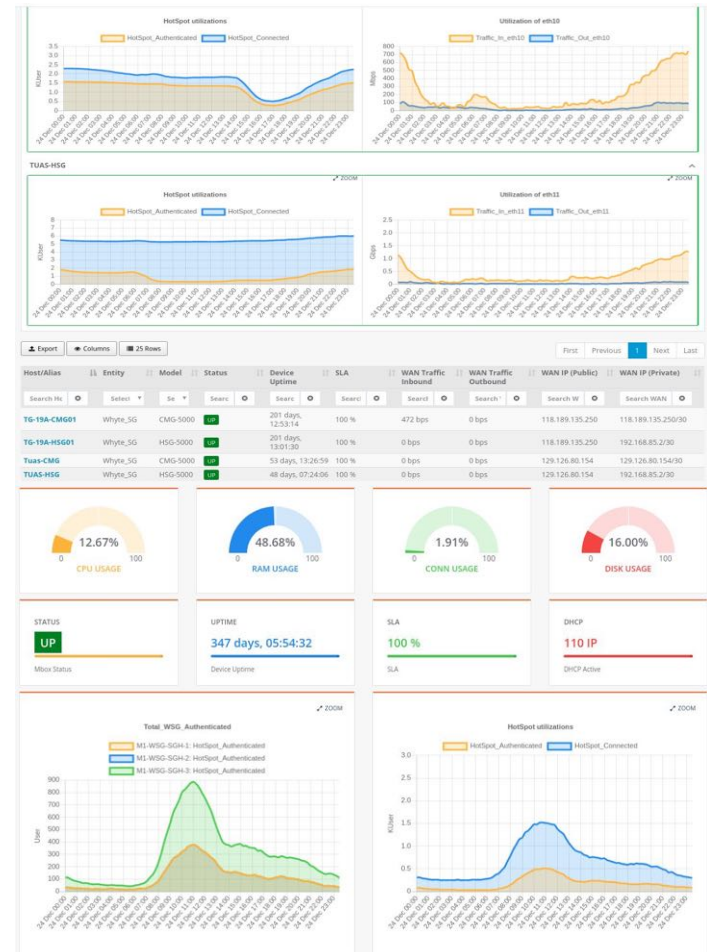
- Device status view on google map
- Click and drill-in for host details

Customizable entity & host dashboard

- Detail view of each host status
- Customize host dashboard for any real-time data
- Real-time/historical alerts, graphs, reports, etc

Central configuration and patch management

- Policy based auto VPN & routing provisioning
- Remote config push and firmware upgrades



Advantages of RansNet Solutions

1. **Cloud management**, start guest WiFi services right out of the box.
2. **Easy sign-in** with various social media and API integrations.
3. Web-based CMS for easy **branding** customization.
4. Targeted campaigns to **advertise** over free Wi-Fi.
5. Integrated **SD-WAN** solution for secure business connectivity
6. Turn your infra from cost center into **revenue generating** platform.



Thank You!

sean@infosys.co.za



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