**ANTlabs**

ISPs, Telecom Operators, Fixed Network Operators, Mobile Network Operators, WiFi Operators, Mobile Virtual Network Operators

ANTlabs' ecosystem of products enables carriers to exceed their customer experience by providing a seamless, secure, flexible and easily integrated solution for Carrier Wi-Fi. As a market leader for public wireless broadband in South-East Asia and Middle East, our solutions also add value to Carriers by enabling monetization of the service offerings with innovations like smart advertising, data analytics and differentiated services delivery.

We help you reduce user churn, lower TCO, and gain higher returns through "Device-Aware, Location-Aware" Captive Portals for regulation and monetization, Seamless Authentication, Seamless & Secure Mobile offloading and Wi-Fi Calling.

Our products are also vendor agnostic and integrates seamlessly with many WiFi access vendors and different Mobile Core vendors to provide a converged and easily integrated solution.

- Secure and Scalable Carrier-Grade products
- Seamless WiFi customer experience
- Personalized Carrier WiFi Solutions
- International Patented technologies
- NFV, COTS and Hybrid architectures
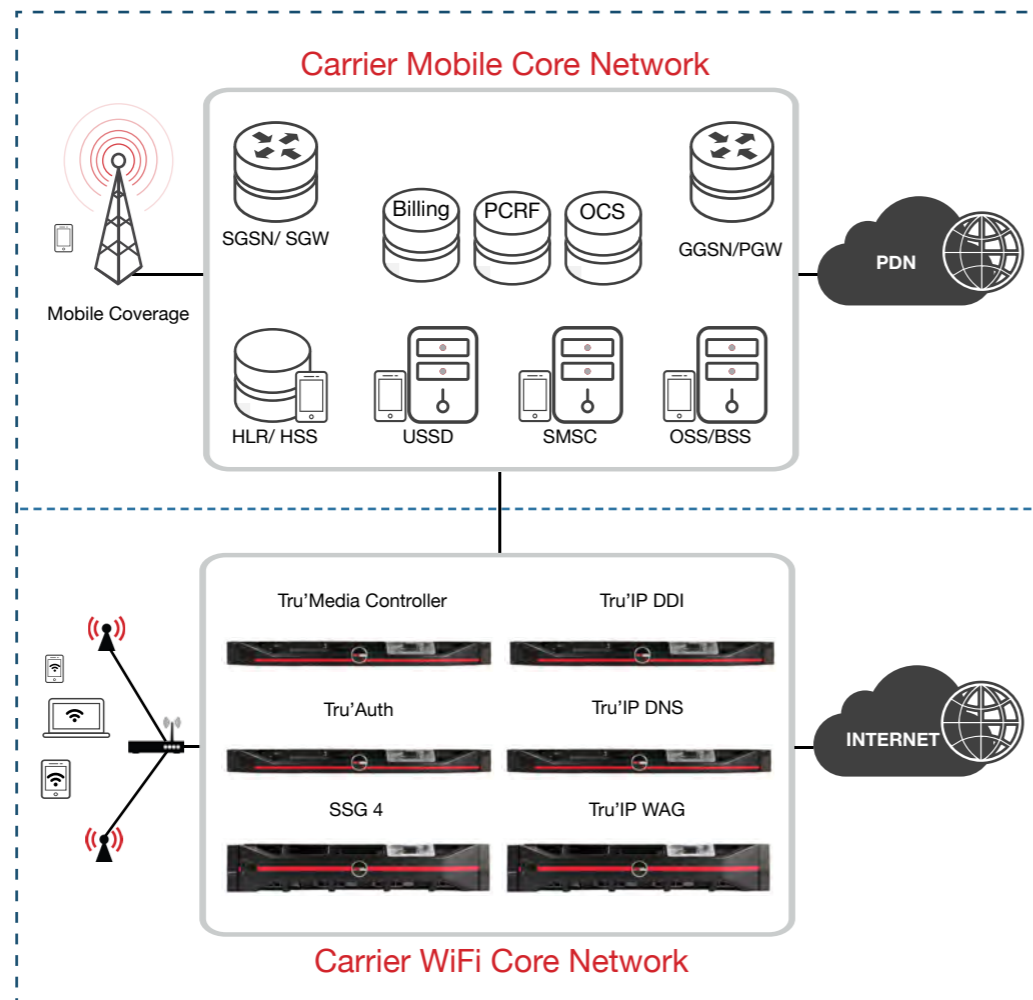
Smart**er** Carrier WiFi Products

Services Selection Gateway (SSG)

Services Selection Gateway (SSG) is a high-performance Carrier-Grade gateway product for deploying wireless and wired broadband networks as an enforcement point for policy decisions. Sporting a high-capacity, high-performance solution in a single scalable COTS hardware, ANTlabs' SSG delivers seamless user experience with its patented Zero-config and Advanced QoS features.

Key Features:
- Advanced QoS
- Built-in DHCP server
- Legal Intercept
- Carrier-grade NAT
- PCEF

Tru'Auth Product Suite

Tru'Auth Product suite is a comprehensive product suite that enables carriers to provision subscribers, provide AAA and billing functions and integrate with existing carrier network nodes across Mobile (3G/LTE), WiFi and broadband networks. Supporting a multitude of authentication mechanisms and standards such as RADIUS, DIAMETER, IEEE 802.1x, 3GPP AAA and PCRF functions, ANTlabs' Tru'Auth product suite provides higher service availability and easy management functions.

Key Features:
- Hotspot 2.0
- 802.1x methods
- Open standard APIs
- Multiple billing interfaces
- Reporting & management

Tru'IP WAG Product Suite

Tru'IP WAG is a highly reliable, scalable and proven Wireless Access Gateway that interfaces with the Carrier's Mobile core network to provide wireless access services for its customers. The Tru'IP WAG product suite comprises of Tunnel Termination Gateway (TTG), S2a Mobility over GTP (SaMOG) and Evolved Packet Data Gateway (ePDG) that enables carriers to rollout new and innovative services on their WiFi network similar to their offerings on Mobile network or to provide a converged service.

Key Features:
- GTPv1/v2
- Trusted / Untrusted WiFi
- 802.1x Support
- TTG SaMOG ePDG
- RADIUS Support

Tru'IP DDI (DHCP/DNS/IPAM) Product Suite

Tru'IP DDI Product suite comprises of Tru'IP DHCP, Tru'IP DNS and Tru'IP CMS products. Tru'IP DDI Product suite is the industry's proven, high-performance, scalable and secure DDI Platform that is easy to configure, maintain and support a Carrier-Grade DHCP and DNS platform.

Key Features:
- 2000 DHCP LPS
- 140K+ DNS QPS
- IPv4/IPv6
- IPAM & reporting
- Load balancing

Tru'Media Controller

Tru'Media Controller enhances user experience and provides monetization options for carriers by providing relative, interactive and unobstructed information during users' browsing session. Tru'Media controller works together with ANTlabs SSG Web Policy Engine to deliver rich media content in the form of dynamic ads or web page overlays based on user and location information.

Key Features:
- Media content overlay
- Context-aware injection
- Open standard APIs
- Multi-tenants
- Multi-sites

Network Diagram

Carrier Mobile Core Network

- Mobile Coverage
- SGSN/ SGW
- Billing
- PCRF
- OCS
- GGSN/PGW
- PDN
- HLR/ HSS
- USSD
- SMSC
- OSS/BSS

Carrier WiFi Core Network

- Tru'Media Controller
- Tru'IP DDI
- Tru'Auth
- Tru'IP DNS
- SSG 4
- Tru'IP WAG
- INTERNET

Side panel features

Mobile Data Offload
- Seamless and Secure Authentication methods
- Intelligent Offloading mechanisms
- Local internet breakout option
- Tunneling to Mobile Core network option
- Unified package
- Integration with HLR/HSS
- Legal Interception
- Hotspot 2.0 Compliant
- WISPr support
- EoGRE Support
- Advanced Multi-Tier QoS
- Dynamic Bandwidth Management

Actionable Data Analytics
- WiFi user data analytics
- Dynamic, Unobstructed, Interactive Web-content Overlay
- Global or Region-specific Social Media Integration
- Device-Aware, Location-Aware content injection

Privacy-protected Monetization
- Seamless collection & storage of user information
- Intelligent Information sharing
- Real-time query of user information
- Historical information sharing for usage behavioral pattern
- Various Monetization options

Agile Business Models
- Smart Cities
- Prepaid/Postpaid, Credit card, eVouchers, Scratch cards etc.
- WiFi Roaming
- Advertisements
- Shared package
- Multi-Venues, Multi-tenants wholesale model
- B2B, B2C, B2B2C models
- Shared quota, Quota Top-up, Top-up with higher speed etc.

VoWiFi / WiFi Calling
- Trusted or Untrusted WiFi networks
- S2b interface with GPRS Tunneling Protocol (GTP)
- Native dialer support

ANTlabs Cloud Service
- Deployed Network Monitoring Dashboard
- Location portal management capabilities
- Reports and Analytics capabilities
- User Demographics dashboard

Large Venues / MICE Environment
- Seamless Access
- Tiered Services & Pricing
- Flexible Account provisioning

Hospitality Industry
- PMS-Driven High-Speed Internet
- Guest-Aware Bandwidth Optimization
- Social WiFi

ANTlabs

International Patented Technologies

Proven Carrier-Grade Products

15+ years of Carrier WiFi deployments

99.999%
PDP Success in 1st attempt

20 Million
AAA IP Addresses allocation

1.5 Million
active PDP sessions

Single COTS Hardware

< 50 ms
response time

3 Million
DHCP IP Addresses on active-active COTS

3,000
TPS Duplicate accounting

60 Million
subscriber capacity

> 600,000
SIM Credentials cache

1 Million
EAP-SIM Conservative Peer records

Single Site

> 1 Million
Apple devices login every day

500 per sec
EAP-TLS Certificates with OCSP/CRL

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