Connectivity **Made Easy**

**ANT***labs*

**A Leading Internet Business Enabler**

# ANTlabs Products

## IG 4

IG 4 supports the needs of guest networks such as hotels, waiting rooms, business centers and F&B. It is an all-in-one gateway targeted at hospitality, has advanced bandwidth management, more authentication methods, and analytics.

**For Medium to Large Hotels/Service Apartments**

| Model | 4110 | 4210 |
|---|---|---|
| Max User License | 800 | Unlimited* |
| Max VLANs | 500 | 2,000 |
| Max Throughput | 940 Mbps | 974 Mbps & 9 Gbps** |
| Max PPS | 50,000 | 200,000 |

*Hardware Capacity up to 7,000 users
**with 10GE Support

## SSG 4

SSG is designed to meet the connectivity service needs of Telcos and ISPs. It is the ideal carrier-class solution for deploying large-scale broadband networks with hundreds of thousands of subscribers.

**For Telcos and Internet Service Providers**

| Model | 4330 | 4400 |
|---|---|---|
| Max User License | 30,000 | 50,000 |
| Max VLANs | 6,000* | 6,000* |
| NIC | 10 GE | 10 GE |

* over three interfaces

## Tru'Auth 4

Tru'Auth is the ideal AAA solution for Telco, ISP and service provider environments, enabling them to effectively and quickly deploy tiered and differentiated services, across combinations of WiFi, 3G/4G and broadband networks. It can be used for provisioning and billing of dynamic and permanent user accounts and authentication, authorisation and accounting of these accounts.

**For Telcos and Internet Service Providers**

### TA (Tru'Auth AAA)

| Model | 3100 | 3300 | 3400* |
|---|---|---|---|
| Subscribers | 500K | 2M | 3M |
| Max Subscriber Sessions | 250K | 1M | 1.5M |
| Max TPS | 500 | 1000 | 2000 |
| DB Records | 500K | 10M | 10M |

* CMS required

### CMS (Central Management System)

| Model | 3200 | 3300 |
|---|---|---|
| CDR Logs | 1.5B | 4.5B |
| DB Records | 100M | 1B |

## SG 4

SG 4 enables large venue owners to manage their own network easily with self-service account provisioning, multiple authentication methods, and traffic management.

**For Large Venues**

| Model | 4220 | 4410 |
|---|---|---|
| Max User License | 10,000 | 30,000 |
| Max VLANs | 4,000 | 4,000 |
| Max Throughput | 9 Gbps | 9 Gbps |
| Max PPS | 200,000 | 250,000 |

## Tru'IP

A highly reliable, scalable and proven product suite for carriers that provides internet-related services for their clients. Be it with Mobile Data through Mobile core, Carrier-Grade DHCP/DNS or ANTlabs Media Controller, the Tru'IP product family enhances user experience.

**For Telcos and Internet Service Providers**

### DDI (DHCP/DNS)

| Model | 4200 | 4300 | 4400 |
|---|---|---|---|
| DHCP IPv4/IPv6-Prefix IP | 4M | 6M | 10M |
| Active Leases | 2M | 3M | 5M |
| LPS | 5K | 10K | 100K |
| DNS Records | 500K | 2M | 2.5M |
| QPS | > 70K | > 150K | > 300K |

### DDI (CMS)

| Model | 4300 |
|---|---|
| API TPS | 100 |
| Management Instances | 10 |
| Components | API, Web Server/UI, DB |

## Peripherals

### EVI 2200 & 2300

The Ethernet Virtual Interface (EVI) is a network device that extends a unique network interface at the remote site to provide zero-configuration networking support over a Layer 3 routed network.
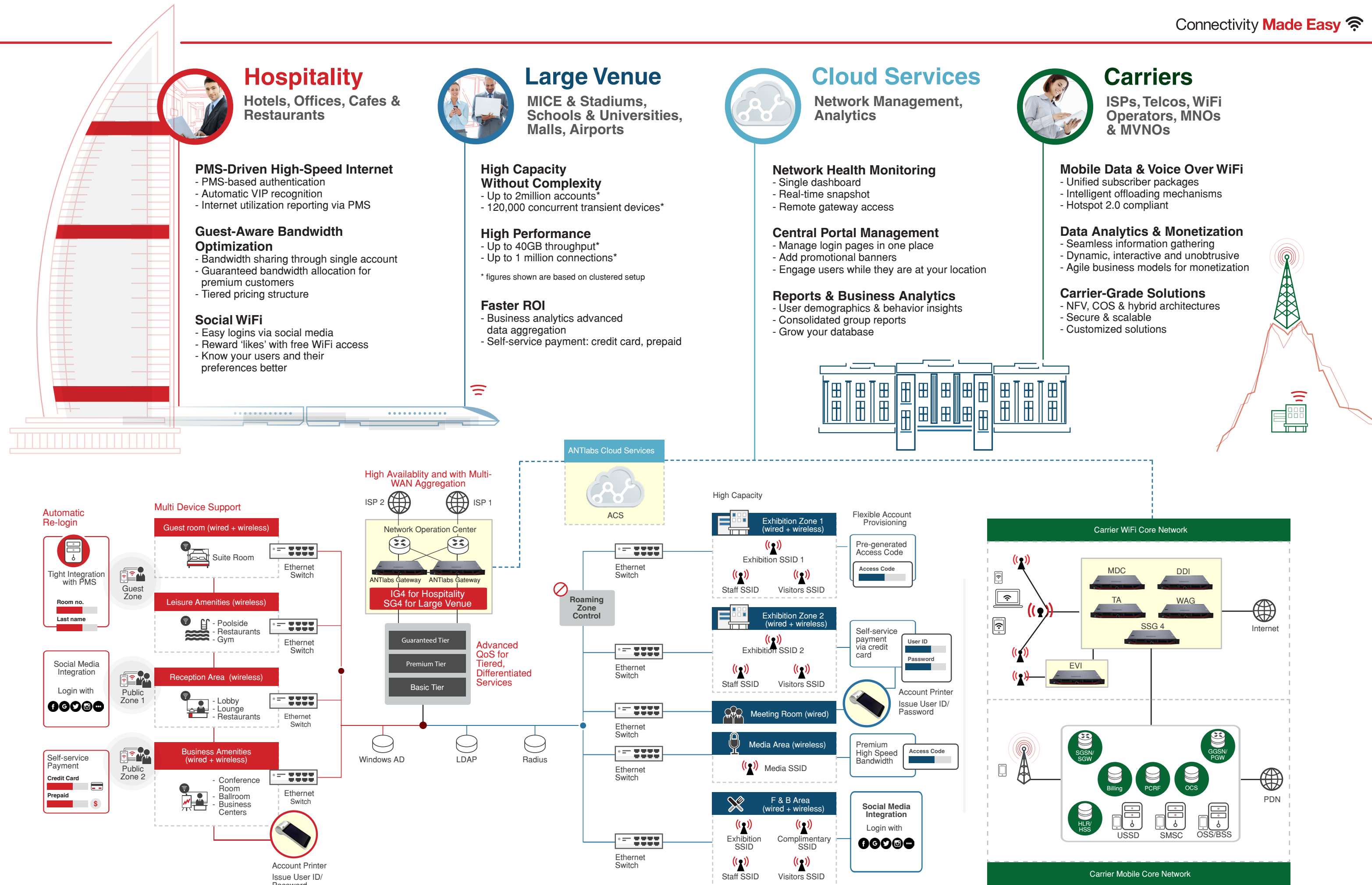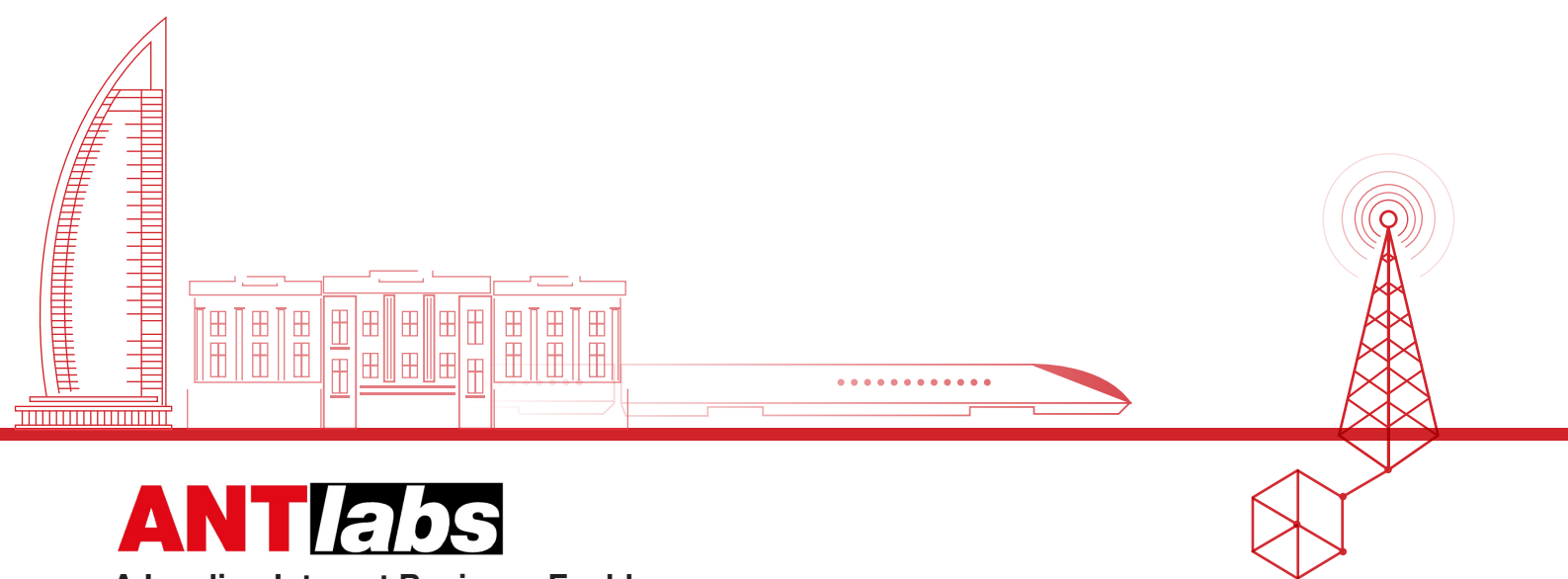
### AP 3100

The user account printer provides hospitality establishments a quick and easy way to generate Internet access accounts for guest with a touch of a button.

**+ How do I manage the network resources effectively and maximize my returns?**

**My guests** are bringing too many devices into my network. How do I manage them?

**I allow my staff** to use their own tablets and smartphones at work. How do I enable that without compromising our network security?

**My subscribers** are facing mobile data congestion in malls, trains and stadiums. How do I solve it?

**How do I stem** the loss of revenue to OTT providers?

**How do I improve brand visibility** and encourage customer loyalty using my WiFi service?

We understand your issues and concerns.
We provide you the solution.

**Seamless Access**
Zero configuration IP, GW, DNS, Web Proxy with auto-login

**Tiered Services & Pricing**
Advanced QoS, Accounting, Price

**Reliability & High Performance**
High Availability, Multi-WAN, Anti-DoS, Large User Count, Multi-Gbps Throughput

**Customer Engagement with Analytics**
Relevant and real-time service delivery

**Flexible Account Provisioning**
RADIUS, Accounting, Roaming, Credit Card, Social Media, etc

## Hospitality
**Hotels, Offices, Cafes & Restaurants**

**PMS-Driven High-Speed Internet**
- PMS-based authentication
- Automatic VIP recognition
- Internet utilization reporting via PMS

**Guest-Aware Bandwidth Optimization**
- Bandwidth sharing through single account
- Guaranteed bandwidth allocation for premium customers
- Tiered pricing structure

**Social WiFi**
- Easy logins via social media
- Reward 'likes' with free WiFi access
- Know your users and their preferences better

## Large Venue
**MICE & Stadiums, Schools & Universities, Malls, Airports**

**High Capacity Without Complexity**
- Up to 2million accounts*
- 120,000 concurrent transient devices*

**High Performance**
- Up to 40GB throughput*
- Up to 1 million connections*

* figures shown are based on clustered setup

**Faster ROI**
- Business analytics advanced data aggregation
- Self-service payment: credit card, prepaid

## Cloud Services
**Network Management, Analytics**

**Network Health Monitoring**
- Single dashboard
- Real-time snapshot
- Remote gateway access

**Central Portal Management**
- Manage login pages in one place
- Add promotional banners
- Engage users while they are at your location

**Reports & Business Analytics**
- User demographics & behavior insights
- Consolidated group reports
- Grow your database

## Carriers
**ISPs, Telcos, WiFi Operators, MNOs & MVNOs**

**Mobile Data & Voice Over WiFi**
- Unified subscriber packages
- Intelligent offloading mechanisms
- Hotspot 2.0 compliant

**Data Analytics & Monetization**
- Seamless information gathering
- Dynamic, interactive and unobtrusive
- Agile business models for monetization

**Carrier-Grade Solutions**
- NFV, COS & hybrid architectures
- Secure & scalable
- Customized solutions

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### Hospitality diagram labels

Automatic Re-login
Tight Integration with PMS
Room no.
Last name
Social Media Integration
Login with
Self-service Payment
Credit Card
Prepaid $

Multi Device Support
Guest room (wired + wireless)
Suite Room
Ethernet Switch
Guest Zone

Leisure Amenities (wireless)
- Poolside
- Restaurants
- Gym
Ethernet Switch
Public Zone 1

Reception Area (wireless)
- Lobby
- Lounge
- Restaurants
Ethernet Switch

Business Amenities (wired + wireless)
- Conference Room
- Ballroom
- Business Centers
Ethernet Switch
Public Zone 2

Account Printer Issue User ID/ Password

### Large Venue diagram labels

High Availablity and with Multi-WAN Aggregation
ISP 2    ISP 1
Network Operation Center
ANTlabs Gateway    ANTlabs Gateway
IG4 for Hospitality
SG4 for Large Venue
Guaranteed Tier
Premium Tier
Basic Tier
Advanced QoS for Tiered, Differentiated Services

Windows AD    LDAP    Radius

Roaming Zone Control

ANTlabs Cloud Services
ACS

High Capacity

Exhibition Zone 1 (wired + wireless)
Exhibition SSID 1
Staff SSID    Visitors SSID
Flexible Account Provisioning
Pre-generated Access Code
Access Code

Exhibition Zone 2 (wired + wireless)
Exhibition SSID 2
Staff SSID    Visitors SSID
Self-service payment via credit card
User ID
Password
Account Printer Issue User ID/ Password

Ethernet Switch

Meeting Room (wired)
Media Area (wireless)
Media SSID
Premium High Speed Bandwidth
Access Code

F & B Area (wired + wireless)
Exhibition SSID    Complimentary SSID
Staff SSID    Visitors SSID
Social Media Integration
Login with

### Carrier diagram labels

Carrier WiFi Core Network
MDC    DDI
TA    WAG
SSG 4
EVI
Internet

Carrier Mobile Core Network
SGSN/SGW    GGSN/PGW
Billing    PCRF    OCS
HLR/HSS    USSD    SMSC    OSS/BSS
PDN

# ANT*labs*

## A Leading Internet Business Enabler

As the Asia Pacific market leader for service gateways, ANTlabs provides award-winning technology solutions for the hospitality sector, large venue network operators, and telcos.

Since 1999, our end-to-end solutions have driven viable business models and faster ROI for service providers. Our market leadership is a product of ou r strong in-house R&D, which focuses on transparent, vendor-neutral networking technologies while seamlessly integrating and reusing existing networks.

With more than 10 international patents in the US, Europe, Japan, China and Singapore, our technology leadership has been proven in large-scale Local Area Network and Metropolitan Area Network deployment over the years.

ANTlabs's solutions meet both current and future demands with scalability, telco-grade reliability, and enterprise-grade performance.

### Hospitality

Our Hospitality solutions are a key business enabler for service institutions, such as hotels and service apartments, deploying High Speed Internet Access (HSIA) services for guests.

### Large Venue

ANTlabs is one of the leading network solutions providers for visitor-based solutions in MICE and stadiums, schools and universities, shopping malls, and airports.

### Carriers

Our Service Selection Gateways (SSG) and Value-Added Tru' Service Management Platforms have enabled Telcos and ISPs to enter the competitive market with great speed and confidence.

### Contact Information

**Tel: +65 6858 6789**
**Fax: +65 6487 4567**

**Sales Department**
**Tel: +65 6858-6789**
**E-mail: sales@antlabs.com**

**Technical Support**
**Tel: +65 6100-SUPP (+65 6100-7877)**
**For US Customers: +1-858-217-5147**
**E-mail: tech-support@antlabs.com**

**https://twitter.com/antlabs**

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**www.antlabs.com**

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