

MSG ISP-in-a-box Edition

ISP • WISP • Cable • WiMAX • Hotspot • Satellite

MSG -1600 SERIES

Broadband Management

From network authentication to billing, Inventum's Multi Service Gateways (MSG) enable complete broadband & subscriber life cycle management.

Consolidate & Simplify

The MSG combines key business and operational functions such as routing, subscriber management, policy control, security & monitoring into a single web managed appliance. No external RADIUS (AAA), bandwidth management or other third party systems are required.

Features Summary



MSG Series 1600
Product Feature representation

Authentication

- Authenticate every subscriber session via login web pages, IP/CIDR, MAC, VLAN & other network attributes.
- Self registration via web wizard including automatic learning of subscriber network credentials.
- Lock down subscriber sessions to specific devices and also support roaming.
- Create unique authentication schemes for each subscriber using an intuitive web interface.

Subscriber & Session Control

- Customized self-care portal
- Subscriber Management System (SMS) built-in.
- Bandwidth management based on subscriber identities including committed and burst information rates, QoS, WAN link affinity and more.
- Real-time subscriber session management & monitoring with support for usage (quota) linked service plans, byte & time accounting.

Service Policy Management

- Subscriber centric, consolidated service policies that combine networking, bandwidth, access & billing functions.
- Automatic selection and provisioning of service policies after subscriber has authenticated.
- Bandwidth upgrades and downgrades in running session.
- Automatic session termination on quota or balance expiration.
- Time-of-day, Day-of-week & Holiday based policy variations.
- Peak/Off-peak charging & discounting.
- All policies are managed graphically, via web interface - No console skills required.

Network Functions

- Static and Dynamic IP Routing, DHCP, NAT, DNAT & DNS.
- Support for 802.1q VLAN tagging.
- Multiple LAN link and virtual interface support.
- Policy routing for network zones and individual subscriber sessions.
- Virtual Routing and Forwarding Tables (per subscriber).
- Firewall & IP Filtering.
- Walled Garden & Toll-Free network support.
- 3-Tier bandwidth & traffic contention management.
- Multiple WAN link support with load balancing & failover.

Accounting & Billing

- One-time-password (OTP) or PIN generation, activation charging and management.
- Pre-Pay & Advance-Pay usage based billing with automatic quota enforcement.
- Payment reminders via email and logon portal messages.
- Comprehensive reports including session history, CDR/IPDR, historical usage, audit trails & many more.
- Add-on module for Inventum's mobile SMS based alerting and customer care portal.
- Add-on modules for handling online payments including credit cards, paypal & electronic checks (in select countries).

Logging & Monitoring

- On appliance logging
- Real-time alerts with emails to administrator
- Remote Syslog support
- Automated notifications
- Lawful Tracking (in select countries)

Reporting & Analysis

- On appliance reporting
- Subscriber centric reports such as session history, usage logs, account activity, top users, etc.
- Appliance level alarms and reports.

Effortless Deployment

- Inline, plug-n-play appliance solution which is typically deployed as the network gateway.
- Web administration & customer self-care portal.
- Role based administrative accounts with ability to delegate specific tasks & functions to less privileged users.
- Does not require any external system to function. Saves countless hours spent in integration & maintenance.
- High availability configurations such as active-active clustering are possible on select models.



Specifications	MSG-1605
Interfaces	<ul style="list-style-type: none"> • 4 x GE LAN/WAN soft configuration • 1 x FE Management
Console/USB	<ul style="list-style-type: none"> • 1 RJ-45 / 2 USB
Dimensions	<ul style="list-style-type: none"> • 268 x 140 x 40 mm (LxWxH) • 10.55 x 5.51 x 1.57 inches (LxWxH) • Weight 1.40 kg / 3.08 lb.
Performance†	<ul style="list-style-type: none"> • 16,000 MAC Address Table • 250,000 Concurrent TCP Sessions • 3,500 New Sessions per Second • 100 Mbps Forwarding Rate
Users & Subscribers	<ul style="list-style-type: none"> • Unlimited subscriber accounts • Unlimited administrative accounts • Typically used in networks with up to 200 concurrent subscribers†
Routing & Switching	<ul style="list-style-type: none"> • Static, Dynamic (RIP) & Policy Routing • Virtual Routers per subscriber (VRT) • 802.1q VLAN & virtual interfaces • Multi-link WAN Load Balancing with Auto Failover • Caching DNS & DDNS support • DHCP Server & Relay (option 82) • PPPoE Client
Firewall	<ul style="list-style-type: none"> • Unique Virtual Firewall per subscriber • Zone based firewall & filtering • NAT, SNAT, DNAT & Policy NAT • DoS Attack prevention

Specifications	MSG-1605
Bandwidth Management	<ul style="list-style-type: none"> • Policy based traffic shaping • Identity based CIR/BIR per session • Time-of-day, weekday & holiday policies • Bandwidth on demand • Diffserv support • 3-tier bandwidth management
Subscriber Control	<ul style="list-style-type: none"> • Customized captive logon portal • External RADIUS/LDAP authentication • IP/MAC/VLAN address binding • 802.1x support • Time & Volume Quota restrictions • Schedule based bandwidth • URL blocking
Logging & Monitoring	<ul style="list-style-type: none"> • Remote Syslog support • Log to internal database • SNMP v1/v2 • E-mail notifications • Lawful Tracking & Interception • Textual & graphical reports
Power & Environmental	<ul style="list-style-type: none"> • Ambient Operating 0~40 C/32~104 F • Ambient Storage -20~70 C/-4~158 F • Humidity 5~ 95 % non condensing

†Estimate only. Subscriber concurrency is variable based on rate/session and services as defined in network policy. Please contact Inventum for test methodology and detailed results.

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