

# HSMX - Internet Access Platform



The HSMX Internet Access Platform is designed to easily manage authentication and billing for small to very large networks. It provides a user-friendly platform to manage users and gives the opportunity to generate extra revenue. Thanks to the included Lawful Intercept Module, you can safely offer internet to your customers and you may rest assured that you are covered at all time.

## HSMX Key features

- Suitable for small to very large networks
- High-level authentication and billing platform
- Lawful Interception

## Platform

HSMX runs on Linux (CentOS) and is partly based on open source solutions such as:

- freeradius
- coova
- dnsmasq
- ...

## Network features

**Any IP / Any DNS:** Subscribers don't need to change anything in their IP-configuration

**Time, Bandwidth and Volume-management:** makes it possible to manage and spread the load on your network

**DHCP Server**

**NAT (Network Address Translation)**

**DynDNS client**

**802.1Q VLAN support**

**WAN loadbalancing:** Support for multiple WAN connections and to load balance between them

**Content filtering:** Websites can be filtered based on blacklists or content

**Rate limiting**

**User agent filtering**

## Authentication & Authorization

Every subscriber needs to log in before accessing the internet. The HSMX supports multiple authentication protocols:

- UAM (Universal Access Method) with captive portal over SSL
- MAC-based authentication
- WPA 802.1X

Local Authentication

Radius Authentication



## Management

**Multiple Administrators:** multiple administrators can be created, each with their own rights and restrictions.

**Subscriber management:** via internal database or external radius. Creation of subscribers based upon the defined billing plans.

**Centralized Management:** manage multiple gateways centrally (optional module).

**Logging:**

- RADIUS log
- System log
- Lawful Interception

**SSL Encrypted:** Management interface over https.

**XML interface**

**SNMP interface**

## Portal page

**Portal Page redirect:** Subscribers who want to access the internet are redirected to a portal page to log in. This portal page is completely customizable and can match the corporate design of the property.

**PDA-friendly portal pages:** user-friendly portal pages for iPhone, Blackberry, ...

**Portal Page Wizard:** Create your own personalized portal page easily.

**Pop-up blocker detection**

**Multiple Browser Support**

**External portal page support**

## Security

### Integrated Firewall

**Lawful Interception:** Keeps track of the IP-addresses visited by the subscribers, which makes sure that in case of internet abuse the violator can be traced.

**White list / Black list:** Predefine websites that may be visited without authentication or block websites that may not be visited at all.

### Content filtering

**MRM (Mail Rate Monitoring):** block subscribers that send too many emails (SPAM) or block SMTP traffic from subscribers that exceeds the normal amount.

**SRM (Session Rate Monitoring):** Session Rate Monitoring will limit the rate a user can send packets with based on the subscribers profile.

### Intrusion Detection

**Spoofing Detection:** Mac address spoofing and fixed IP spoofing detection.

**Hijacking Prevention:** A heartbeat between the console of a user and the HSMX ensures nobody can spoof that mac address and gain access to the internet without authentication.

## Billing plans

The HSMX platform creates an opportunity to gain extra revenue. You can create your own billing plans and payment can be done in different ways:

- voucher
- reload cards
- credit card (optional module)
- PMS (optional module)

The HSMX supports multiple credit card clearing houses

Special Free Access plans

## Reporting

**Reports:** Revenue, data usage and subscriber reports show all user activity, transferred data and the revenue that was made in your property. Reports on a daily, monthly or yearly basis.

**Bandwidth Report**

**Gateway Health Status**

## Subscriber Access

SMTP Redirect

NAT (Network Address Translation)

VPN pass-through

RADIUS Client / RADIUS Proxy

Log out console

Smart URLs

Registration Mail

Content filtering

## PMS integration

The optional PMS module (Property Management System) will allow you to create a richer guest experience:

- guests can view their bill
- receive messages sent by the staff
- charge internet access to their bill
- check out via internet

Type: FIAS Serial or FIAS IP

OnQ support

## HSMX Models

All HSMX-platforms are 19" 1U rackmountable appliances.

- **HSMX-100:** 25 users upgradable to 100 users
- **HSMX-500:** 100 users upgradable to 500 users
- **HSMX-5000:** 500 users upgradable to 5000 users
- **HSMX-UNL:** 5000 users upgradable to ... \*

\* HSMX-UNL is without hardware, hardware is designed on project basis.