CRYPTOSPOT
PRACTICAL AND SECURE INTERNET CONNECTIVITY

Authentication, Authorization and Accounting

Indentity Management via Radius

Responsive Captive Portal

Numerous Methods

Integrated with PMS Systems

Detailed user activity records

CryptoSPOT Highlights

✓ Offers reliable and secure Internet access to guests and customers

✓ Cost-effective deployment over LAN and Wireless without any hardware dependence

✓ Versatile authentication methods for diverse devices using captive portal technique

✓ Universal control over number of users and per-user bandwidth quotas on entire network

✓ Customizable client network configuration in addition to automated IP configuration

✓ Comprehensive reports on users' accounts

✓ Flexible storage option to meet retention compliance and regulation

What is CryptoSPOT?

CryptoSPOT is a gateway software which helps you offer your guests or customers internet access via expanding a wireless or wired bandwidth. By installing this product on your server, not only you ensure a reliable secure paid or free access to network for smartphones, tablets, notebooks and laptops of your visitors or employees, but also enable yourself on variety of billing, statistical information reporting and log storage abilities. Upon connecting to the network, your login page will appear on users' browser and user authentication will be verified through a third party database e.g. SMS services, active directories and so forth.

CryptoSPOT's applications

The flexible architecture of CryptoSPOT makes it a convenient Internet access environment on both small and large network scale, from indoor WiFi services in small companies to large networks and enterprises in cafés, libraries, restaurant, malls and shopping centers or airport. Therefore, any corporation can benefit from CryptoSPOT to grant a reliable access over WiFi or LAN network to its guests and customers without exposing their network to security hazards.
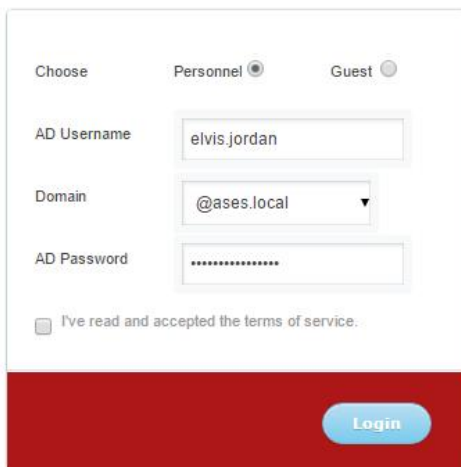
Main Software Features

CryptoSPOT, with advanced remarkable features, enable administrators to offer and supervise access of both guests and regular users over the network. It provides an intuitive centralized user interface where access status, IP and MAC address, upload/download rates of each user can be accessed and controlled. Some of main features of the software is listed as below:

Versatility on Authentication Approaches

CryptoSPOT offers variety of authentication methods for rendering access to users. Authentication can be checked through predefined standard users or by using Active Directory integration. CryptoSPOT offers over 30 SMS gateways for verification or users can connect through their **Facebook, Google+ or Twitter** accounts. Web service, Third party database or MAC address authentication are available in addition to Sponsor or RADIUS integration on demand. Any combination of mentioned methods is possible.

Effortless deployment and access

Easy-to-install and intuitive user interface of CryptoSPOT enables you to control wired or wireless access of clients' devices and phones in configuration windows without any software installation requirement on the client's part. Accordingly the service is independent from operating system and compatible with any browser in users end. Remote management on authentication and access control is possible on request.

Number of Users Configuration

The number of users connected to the server can be configured from unlimited to small set to supervise **bandwidth** depletion.

Bandwidth Management

Download and upload rate of each user's account can be controlled by restricting speed or data volume. Different quotas can be rendered to specific costumers or guests. Data transmission limitation can be defined on upload and download separately on username or MAC address basis.

Multi-variant configuration base on location, IP or MAC address white-lists

You can define different configuration of access and bandwidth for disparate locations or specific users over your network. CryptoSPOT allows administrator to define **MAC or IP address lists** and these devices can connect to Internet without any authentication or limitations. It also helps organization to allocate specific quotas and different log-in themes in certain locations. HTTP proxies can be defined on the access on request.

E-mail Redirection

CryptoSPOT enables redirecting all e-mails transmission over network through private SMTP server and this option is useful when ISP blocks inbound port 25 of default SMTP port. In such situation the e-mail traffic is redirected through the organizations SMTP server on another port and provide a highly available service to customers.

Advertising benefits

Offering free high-speed access to Internet, not only attracts people and entice them for longer stays, it also provides a suitable platform for advertising the organization or generating **advertising** revenues. CryptoSPOT enables administrator to configure specific logos and layouts to be displayed on customers or guests' browsers. Furthermore, the general themes and graphics of log-in page can be designed manually. The log-in methods usually gathers costumers and guests names and email addresses which can be used to send welcome or advertising messages.

Statistical reports and log management

Out-of-the-box report templates of Crypto**SPOT**, offers important information on activities over the network. Total usage bandwidth and time, number of logins and top customers on time and download data are some of the statistics that the organizations can benefit from. Furthermore, generated logs in Crypto**SPOT** carries all the information on the activities and IP addresses of users. Some government regulations requires log storage and management. From analysis these logs Crypto**SPOT** offers variety of reports:

- Top N Daily/Weekly/Monthly Authenticated Users
- Top N Daily/Weekly/Monthly Downloads
- Top N Daily/Weekly/Monthly Uploads
- Top N Daily/Weekly/Monthly Accessed Domains
- Top N Daily/Weekly/Monthly MAC Addresses
- Top N Daily/Weekly/Monthly Source IP Addresses
- Quota Usage Timeline within N Hours/Days
- Session Usage Timeline within N Hours/Days
- Top N SMS Request senders
- Current Distinct User Numbers
- Daily/Weekly/Monthly Maximum Online User Counts
- Internet Usage Hourly Distributions

Scalable structure

Based on the requirements and structure of organization's network, CryptoSPOT can be implemented on one central server or over a cluster server architecture. Total customers' access to resources, policy enforcements and usage auditing can be controlled over one **Authentication**, **Authorization** and **Accounting** (AAA) server with CryptoSPOT, where each access point should be configured to transfers information to the central server. This service can cover bandwidth control and log auditing per user. CryptoSPOT uses **RADIUS** protocol where only AAA is required. However, in large networks where quota control and log auditing is important, CryptoSPOT can be installed multiple access point servers and these servers work in cluster, providing reliability, load balancing and scalability in CryptoSPOT's overall service.