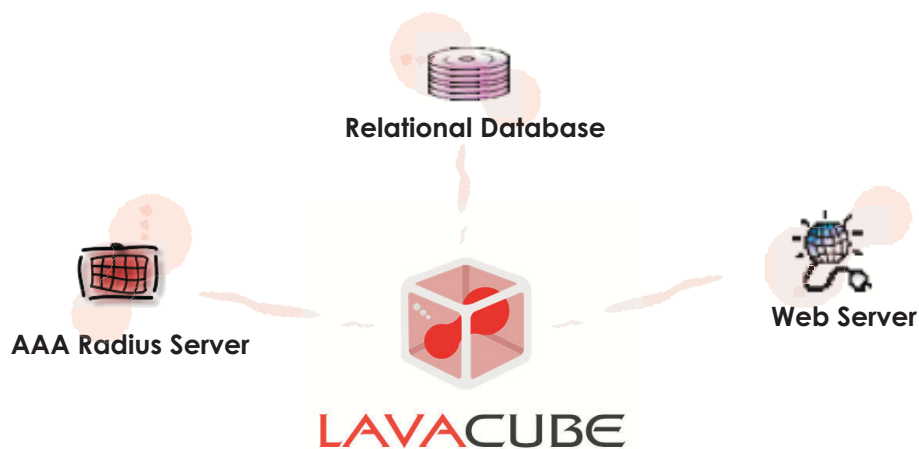




LAVACUBE Total Hot Spot Management

LAVACUBE is a fully integrated, multi-Hot-Spot network with billing, authentication and settlement solution. LAVACUBE incorporates a fully featured radius server, relational database and the Apache Web Server.

LAVACUBE has been developed by vqbn services to meet our own requirements of managing numerous hotspots. By leveraging on this experience, vqbn is able to offer a comprehensive solution that allows you to rapidly deploy and manage your Hot-Spot.



LAVACUBE Features

- . Web Based Interface
- . Modular Architecture
- . Scalable Architecture

Billing Suite

- . Pre-paid & Post-paid models
- . Roaming Support by using IPASS
- . Roaming Support by using radius proxy to other radius servers
- . Partner Web Interface to allow usage checks

Subscriber Management

- . Import & Export Subscribers in CSV format
- . Search & Edit Subscriber Records
- . Enforce concurrent login limits

Reporting Suite

- . Subscriber based usage reports, reflecting time and traffic used
- . Numerous pre-defined management reports based on usage
- . Real time revenue reports
- . User defined reporting

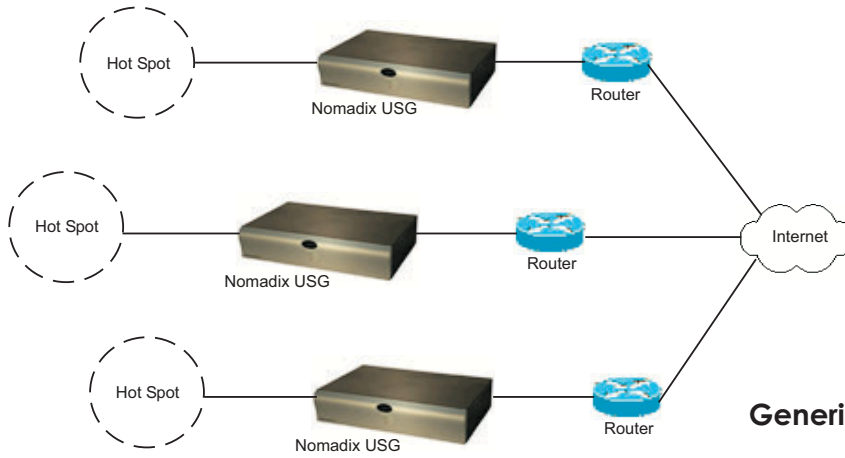


LAVACUBE

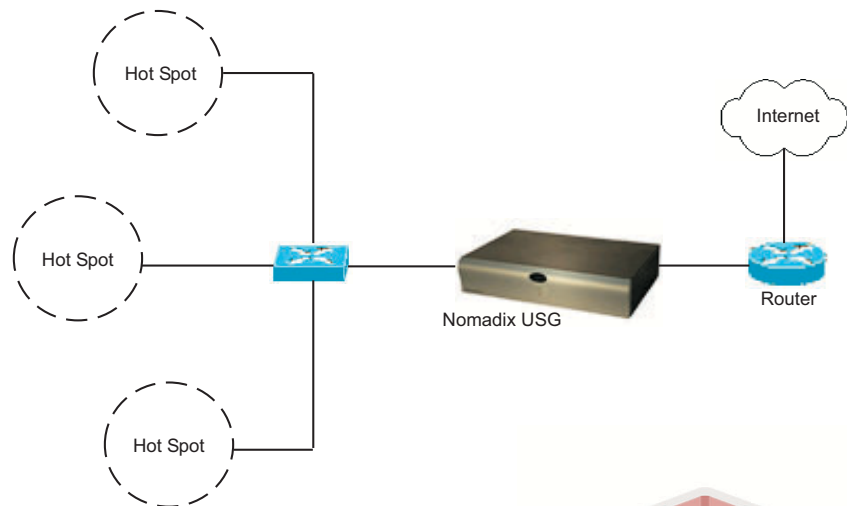




Sample Network Architecture



Generic Hot Spot Deployment



Bridged Hot Spot Deployment



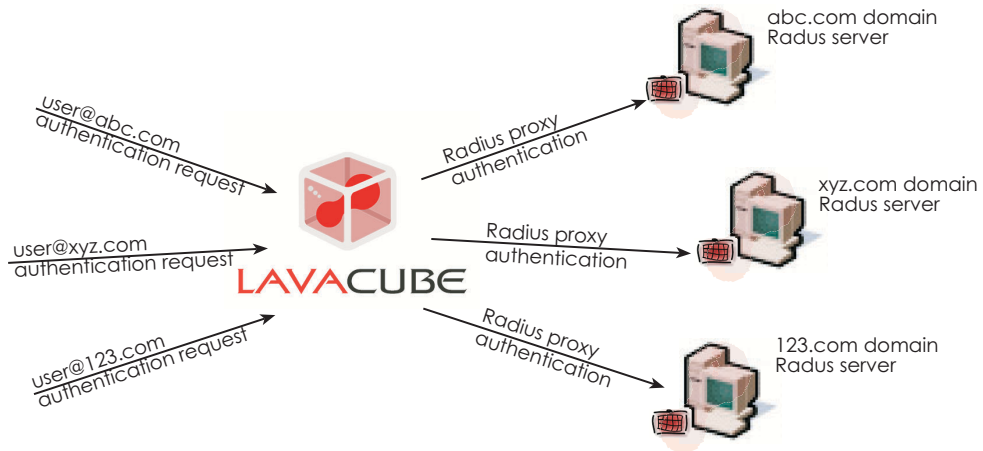
LAVACUBE Advantage

- Low Investment >> Relatively low investment for hot-spot deployment
- Fast Deployment >> Designed for rapid deployment
- High Availability >> Network infrastructure designed with high availability in mind
- High Reliability >> Deploy using industry leading hardware, network devices and software
- High Scalability >> System design for scalability, allow rapid expansion/deployment of hot spots

LAVACUBE



Sample Roaming Implementation



AAA/Radius

Our Radius Server can authenticate for many different realms and clients at the same time, with different databases, options and authentication methods in each realm. Multiple proxy targets, with packet and attribute filtering allow you to service both small and large ISP and carrier environments

iPASS (TM) Roaming Network both inbound and outbound authentication and accounting.



Relational Database

The MySQL database server is the world's most widely used open source database. Its ingenious software architecture makes it extremely fast and easy to customize. Extensive reuse of code within the software and a minimalistic approach to produce functionally rich features have resulted in a database management system unmatched in speed, compactness, stability and ease of deployment. The unique separation of the core server from the table handler makes it possible to run MySQL under strict transaction control or with ultrafast transactionless disk access, whichever is most appropriate for the situation.



vqbn services pte ltd

5 Shenton Way
#27 - 01
UIC Building
Singapore 068808

Tel: +65 6720 7880
Fax: +65 6221 6028
Email: lavacube@vqbn.com
Web: www.vqbn.com

LAVACUBE