

## Guest Internet Large Scale Custom Hotspot Project Design and Implementation



### FEATURES

- Low cost plug and play: easy to use wizard speeds installation
- Custom login page with client branding
- The legal disclaimer can be edited
- Controlled access uses codes that are generated and managed on the unit or Cloud
- Charge for Internet service or provide it free
- Credit card billing via PayPal
- Two tier billing, free low speed access, charged high speed access
- Facebook social media login
- Access code usage reporting to track Internet utilization
- PCI DSS compliant firewall for retail applications
- Remote configuration
- Remote management and monitoring via the Cloud
- Bandwidth control per user
- Content filter blocks access to non-approved websites
- Block file sharing Torrent software
- Timer calendar for hotspot availability
- URL and MAC filter
- Multi-WAN with load balance and fail-over
- API to build custom hotspot applications

**Solve the technical and logistical problems associated with large scale Hotspot deployments**



- Manage thousands of users through the simple Cloud interface
- Optimize scarce resources, maximize the number of users that can be supported by bandwidth limited Internet circuits
- Usage reports display high-resolution data and permit the large scale configuration to be finely tuned for optimal performance
- Prevent abuse of the public Internet Hotspot service
- Customize any aspect of the deployment, from the interface branding to a custom dashboard display for interactive marketing

## Large Scale Hotspot Deployment Case Studies

### TRADE SHOWS

#### **An optimized Hotspot service for visitors, exhibitors and administration staff**

Guest Internet gateway products have been successfully deployed at many trade shows to provide an optimized Internet service with a great user experience. Many thousands of visitors can be supported with both mobile devices and kiosks, and with various login formats that include free and paid access (Guest Internet also has a kiosk product). Exhibitors can have Internet access as part of the booth package, and administrators and managers can have preferential Internet access.

### SPORTS STADIUMS

#### **Tens of thousands of sports fans want access to sports information in real time**

Many thousands of fans can connect to the Internet Hotspot service for access to sports data by stacking several Guest Internet gateways, and managing as one large virtual gateway via the Cloud service. The Internet service can also serve as an interactive marketing tool for sports merchandising.

### LARGE HOSPITAL NETWORKS

#### **Many hospital groups have deployed Guest Internet gateways to provide a Hotspot Internet service for patients and visitors**

Guest Internet hotspot gateways are popular with hospital IT departments due to low cost, ease of installation and operation, and high reliability.

Guest Internet gateways offer an advantage for healthcare applications: a HIPAA compliant firewall that blocks attempted access from the public network to the private hospital network.

### AIRPORTS

#### **Build a low cost high performance airport Hotspot service for travelers, staff and concession holders**

The flexibility of Guest Internet gateway products permits the deployment of a public hotspot service for tens of thousands of daily travelers with free or charged access, or a two-tier limited free + charged service. The Hotspot infrastructure can also be used by airport staff and concession holders with custom login requirements. In addition the Hotspot system can be used as a marketing vehicle alerting travelers to airport offers and facilities.

### PUBLIC PARKS

#### **Public parks, RV parks and campgrounds present a unique challenge for the Hotspot service installer**

Guest Internet customers include firms that install Internet services in many different type of public parks. A large park requires the deployment of an extensive wireless distribution network. Guest Internet gateways include features that relieve the burden of configuring and monitoring large wireless distribution networks.

### HOTEL GROUPS

#### **Hotel groups and resorts take advantage of Guest Internet features to provide benefits for guests**

Hotel guests are choosing hotels based on the Internet service provided, and Guest Internet gateways have been chosen by hotel groups to implement a high performance Hotspot service for guests. Hotels can implement a single or multiple tier free/charged service for guest, and can implement preferred guest programs, where a preferred guest can have high speed Internet at any hotel in the group. Guest Internet gateways can interface with the property management system (PMS).

## Improving the Hotspot User Experience through Efficient Resource Management

The critical question when designing a large scale public Internet Hotspot system is how much bandwidth will be required. More often the question is about how to maximize the number of users when the Internet bandwidth available is limited.

Guest Internet answers such questions with several features that permit efficient resource management by supporting the maximum number of users with limited Internet bandwidth scenarios. Management features include: per-user traffic speed and data limits, restriction on access to high bandwidth websites, blocking of file sharing protocols, and blocking of computers infected by any type of DoS attack virus.



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## Guest Internet Large Custom Project Implementation

Many Guest Internet products are installed in public Internet Hotspot environments where a single Hotspot controller is managed locally. These hospitality applications include coffee bars, restaurants, motels, and hotels.

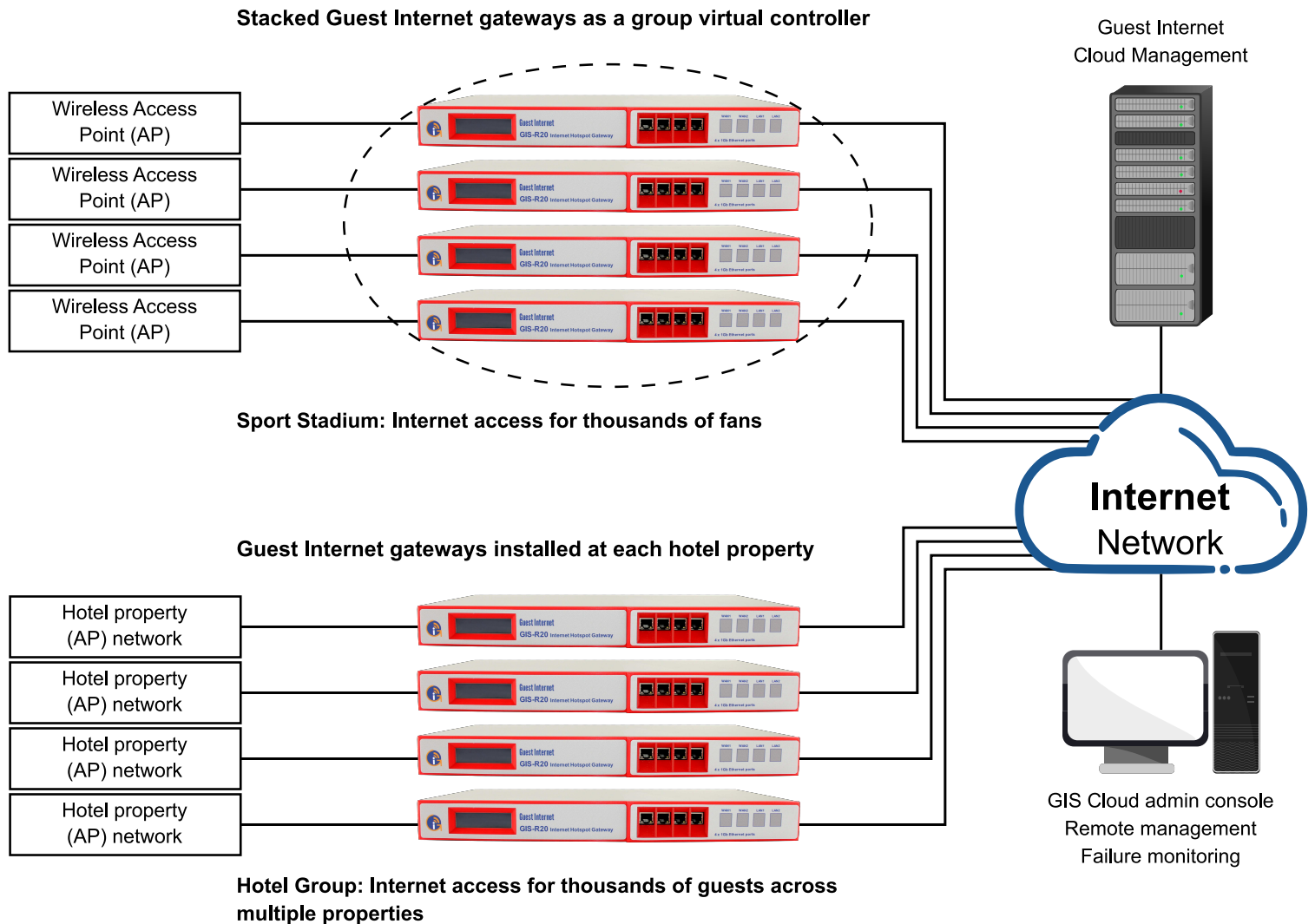
The Guest Internet technical architecture was designed for very large scale Hotspot systems that have many thousands of users. Furthermore the design features can be customized for specific requirements of the large project.

Large custom Hotspot projects include sports stadiums, airports, trade shows and public parks.

The Guest Internet architecture is able to accommodate very large custom projects because of specific design characteristics:

- Advanced features that permit monitoring and management of many users, and failure monitoring of network infrastructure.
- Cloud group management features that permit multiple gateway units to be managed as one large virtual gateway.

Customization can start at branding, and extend to the addition of features specific to the application.



## Tools that Implement Technical Support for Large Scale Custom Project

Guest Internet Cloud management includes real-time performance monitoring of wireless access points and gateways. In the event that a failure is detected a warning is issued to the system administrator.

The monitoring system can be configured to issue a trouble ticket directly to the field service technician in order that the problem is solved quickly and effectively.

# Guest Internet Large Scale Custom Hotspot Project Design and Implementation



## GIS-R10

**PORTS:** 1x Gb LAN, 2x Gb WAN or 2x Gb LAN, 1x Gb WAN

**DIMENSIONS AND POWER:** Rack mount kit extra  
12 volt external power supply, 2 amps, 110v/220v operation  
Enclosure: 23cm x 18cm x 4.5cm (1U height)



## GIS-R20

**PORTS:** 2x Gb LAN, 2x Gb WAN

**DIMENSIONS AND POWER:** Rack mount kit included  
12 volt external power supply, 3 amps, 110v/220v operation  
Enclosure: 44cm x 21cm x 4.5cm (1U height)



## GIS-R40

**PORTS:** 2x Gb LAN, 4x Gb WAN

**DIMENSIONS AND POWER:** Rack mount kit included  
12 volt external power supply, 3 amps, 110v/220v operation  
Enclosure: 44cm x 21cm x 4.5cm (1U height)



## GIS-R80

**PORTS:** 4x Gb LAN, 4x Gb WAN

**DIMENSIONS AND POWER:** Rack mount kit included  
12 volt external power supply, 3 amps, 110v/220v operation  
Enclosure: 44cm x 21cm x 4.5cm (1U height)

## Guest Internet Gateway Features

### PRINCIPLE FEATURES

- Very easy to install and operate
- Fast configuration with setup Wizard
- Works with any access point
- Fully customizable login page
- Access code login
- Peer-to-Peer blocking
- Set bandwidth limits per user
- Set data limits per user
- Robust firewall
- Facebook login
- Email and data collection
- Content filtering
- Access point failure monitoring and alert

### RELIABILITY

- Multi-WAN load balance with failover

### CLOUD MANAGEMENT

- Remote management of multiple devices
- Device failure alert

### OPERATION

- Commercial grade, suitable for any ventilated environment
- Ambient cooling is not required

### SUPPORT & WARRANTY

- Technical support via the on-line ticket system
- 1 year for product defects
- Free firmware upgrades

### Applications for the Guest Internet large scale custom project deployment:

Large hospitals, airports, hotel chains, sport stadiums, public parks, trade shows

Call 1-800-213-0106 for further information, or please visit our website at: [www.guest-internet.com](http://www.guest-internet.com)

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The recommended maximum number of concurrent users for Guest Internet products is based on product throughput and data traffic estimates per user. Consult Guest Internet for additional information regarding the applications and deployment of Guest Internet products.