

Altai Outdoor WiFi Network for Hotel and Shopping Mall Application



It is evident that there is a growing user behavior to get on the Internet anywhere with the popularity of WiFi devices. Wherever there are people, there are users' needs to surf on the Net. Hotels & shopping malls are the hot places for people to enjoy their personal lives when they are alone, for people to enjoy the social lives by hanging out with friends, and for people to discuss business casually at a coffee shop or restaurant. No matter what lifestyle people have when staying in a hotel/shopping mall, allowing them to get on the Internet is an added convenience to them.

Many hotels and shopping malls have started to provide Internet service at their premises to increase their public image and also to generate additional revenue.

1. The Problem

The typical environment of hotels and shopping malls poses some practical problems for the provision of Internet service.

- **Minimum interruption to guests** – Hotel guests want to be “Do Not Disturb” when they are staying in the hotel rooms. For those hotels with a high occupancy rate, it is difficult to schedule the appropriate time to do the installation works to provide in-room Internet service.

- **Complicated environment** – The hotel and shopping mall environment consists of large open space area, highly partitioned shops/rooms and outdoor area. It is hard to provide ubiquitous Internet connectivity, and coverage holes are often found.
- **Congested blocking wiring** – for some established hotels with a long history, their wiring closet is congested with different cables and it takes huge effort to rewire or add extra cables.
- **Long deployment time** – Both the hotels and shopping malls have large total floor area. The construction of wired network for providing Internet services not only causes inconvenience to the guests, but also takes a longer deployment time than expected.

2. The Altai Solution

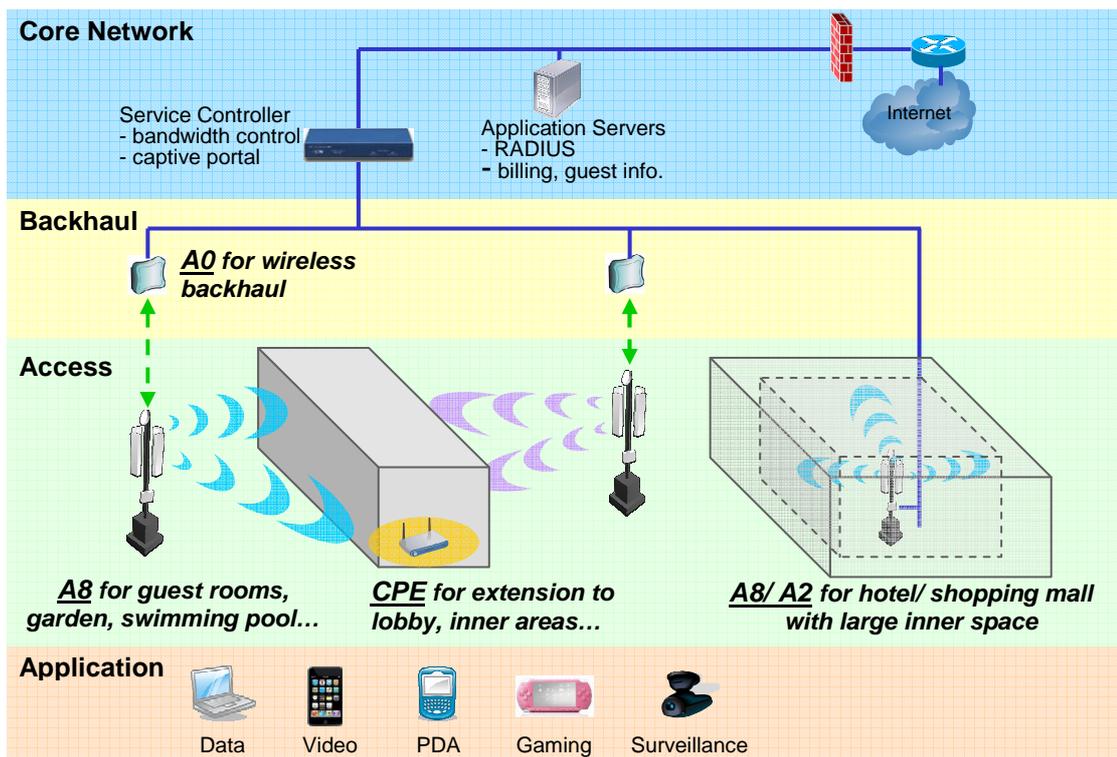
Due to the super coverage of Altai WiFi base station, the deployment of Altai solution allows fewer installation sites to be set up in order to provide total coverage. This can minimize inconvenience to visitors and speed up the deployment time.

The Altai WiFi base station can be installed in the following ways:

- Installed in indoor environment to provide WiFi coverage in large inner space;
- Installed in outdoor environment to provide indoor coverage to the hotel rooms and also to provide coverage to outdoor facilities (e.g. resort, swimming pool, garden).

The Altai wireless solution can provide captive portal function to provide user login service, bandwidth control to individual users to maintain a fair play for all the users. In addition, billing support is provided by passing the user's credentials to the hotel/ISP billing server.

Network Diagram for Hotel/Shopping Mall



3. The Altai Advantage

- **Fast deployment in hours** – The setup of the WiFi base station takes a short time of some hours to provide WiFi coverage in a large area.
- **No in-house wiring required** – the Altai solution does not require cabling works to each hotel room, thus saving much capital and labour costs.
- **Flexible antenna mounting** – each of the 4 sector antennas can be installed at different positions horizontally or vertically, and each of which can be adjusted in orientation and down-tilted angle allowing different target distances and cell shapes.
- **Only a few base stations are required** – the required physical works and site preparation will be much reduced. The coordination works between the service provider and building management will be smoother and less inconvenience will be caused to visitors
- **Bandwidth and access control** – the Altai solution can provide user login service, authentication and bandwidth control functions to enable a total solution for service providers.

4. Customer Reference

- **Hotel Cambodiana, Cambodia**

Hotel Cambodiana has built a wireless broadband network to provide broadband Internet access to her guests in the 300 rooms. 2 Altai A8 WiFi base stations have been installed on the lamp posts, one located in front of and another located at the back of the hotel. The Altai solution would not need the laying of cables throughout the guest rooms, so as to minimize interruption to the hotel guests and save both the deployment cost and time. The hotel can provide this value-added service to her guests and generate revenue by selling the pre-paid cards for Internet access.

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