



Mikrotik Case Study

Manila Real Residences

Industry	Apartment and Condo
Location	1129 Natividad Lopez St. Manila, Philippines
No. of user in the network	1000 users
Website reference	http://www.zipmatch.com/listings/condominium-for-rent-at-manila-real-residences-in-manila-32303

Problem:

Manila Real Residences wants to provide and distribute internet access for it's residences as part of their perks.

- Management wants to provide an efficient bandwidth management for the Wi-Fi access of their residents.
- They request for a no dead spot wireless deployment and capability to roam around the facility without getting disconnected to the Wi-Fi.
- While having the ease of management of all the Access Points (Changing SSID, password & knowing which is up or down).



Solution:

With the said request we provided the following solutions:

- Configure their mikrotik Hotspot to work with advanced bandwidth control using dual-limitation, parent and child queuing with priority.
 - This features will allow their resident's to properly share bandwidth each user will have dual-limitation:
 1. CIR: Committed Information rate (bandwidth dedicated for client no matter how busy the network is).
 2. MIR: Maximum Information rate (bandwidth that can be achieved if the network has unused or spare bandwidth).
- Through hotspot and user-manager, bandwidth allocation for every residents of Manila Real Residences will be solved. Each specific resident will be given their own usable voucher.
- Activate CAPSMAN (Centralized Access Point Management) in their mikrotik core router and access point advantages are:
 1. Centralized change for SSID and Password of all the AP's (Individual AP configuration could also be done).
 2. Activated roaming functionality which allows residents to walk around building and be transferred to the nearest AP.



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Pictures Related to Manila Real Residence:

Manila Real Residences Logo:



Manila Real Residences

Inside Manila Real Residences pictures:



Outside of Manila Real Residences (left) and inside of one of the rooms (right)



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Devices used in Manila Real Residences:



CCR1009-7G-1C-1S+
(Core Configuration)



WAP 2HnD
(Access Point)



1DL-DGS-1024D
(Core Switch)