

Wireless Network Monitoring and Planning for Improving Indoor Multi-Storey Building

By: Shoa-Yei Yeong

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RB2011UiAS-2HnD-IN:

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Official Master Distributor of Mikrotik

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AGENDA

- Introduction: About Me
- Case Study
- Objective
- Cloud Store
 The Computer Networking Store
- Network Monitoring Distributor of Mikrotik
- Network Planning
- Implementation
- Q & A

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INTRODUCTION: ABOUT ME

Shoa-Yei Yeong:

- MSc in Comp. Networks
- System and Network Engineer
- Freelance Works

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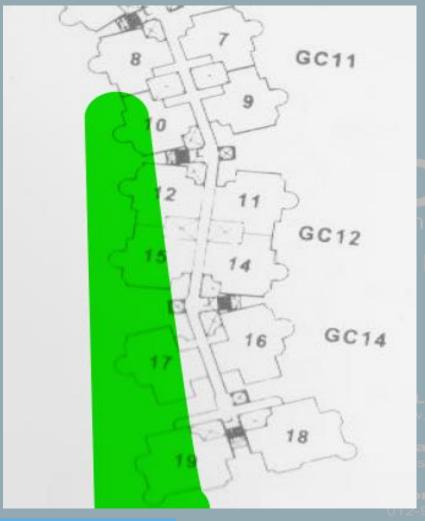
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CASE STUDY: MULTI-STOREY



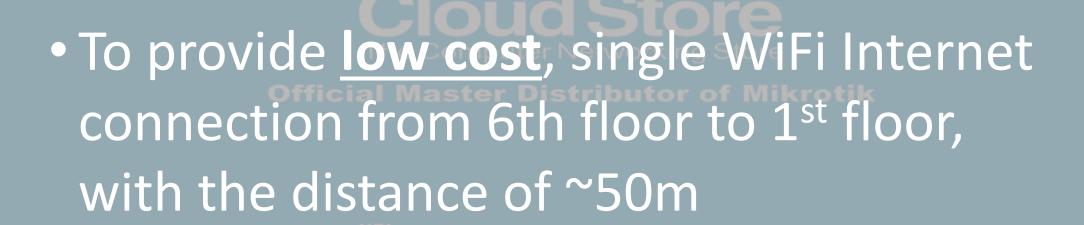
BUILDING







OBJECTIVE







CHALLENGES: #1



- Coverage
- SNR (Signal-to-Noise Ratio)
- Data Rate
- Obstructions

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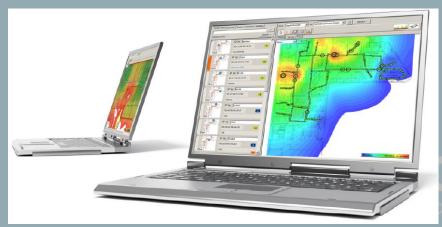
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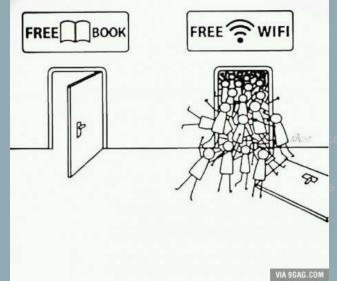
NETWORK MONITORING



- Site Survey
- I. Active Survey
- II. Passive Survey

mputer Networking Store

Official Master DiéUser Survey'mikrotik









CHALLENGES: #2

• Most residents are not meant to be the WiFi router administrators.

Cloud Store

- Interference | Master Distributor of Mikrotik
- 1. Co-Channel (more severe)
- 2. Overlapping Channel

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NETWORK PLANNING

QUICK QUESTION

From channel 1 to 13 (2.4GHz WiFi), which channel is mostly used?

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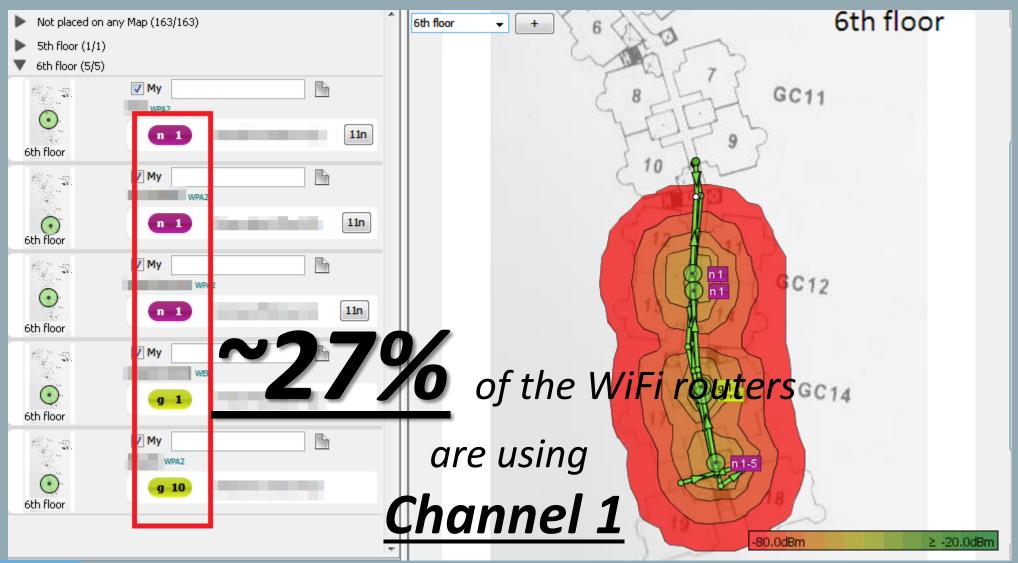
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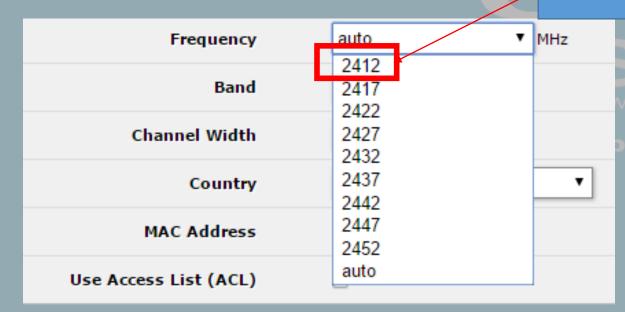








Channel 1



In this case study, don't use 2412 MHz (ch1)

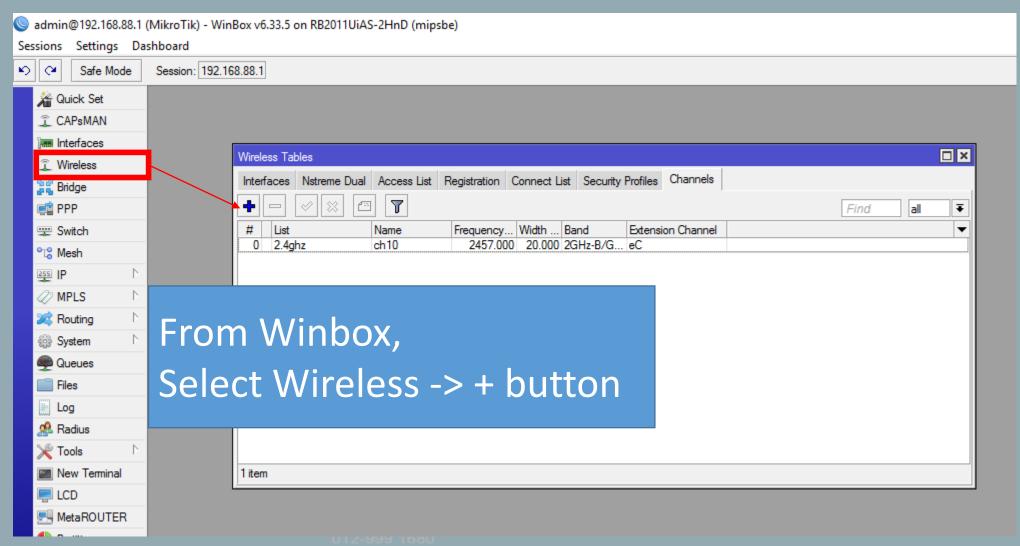
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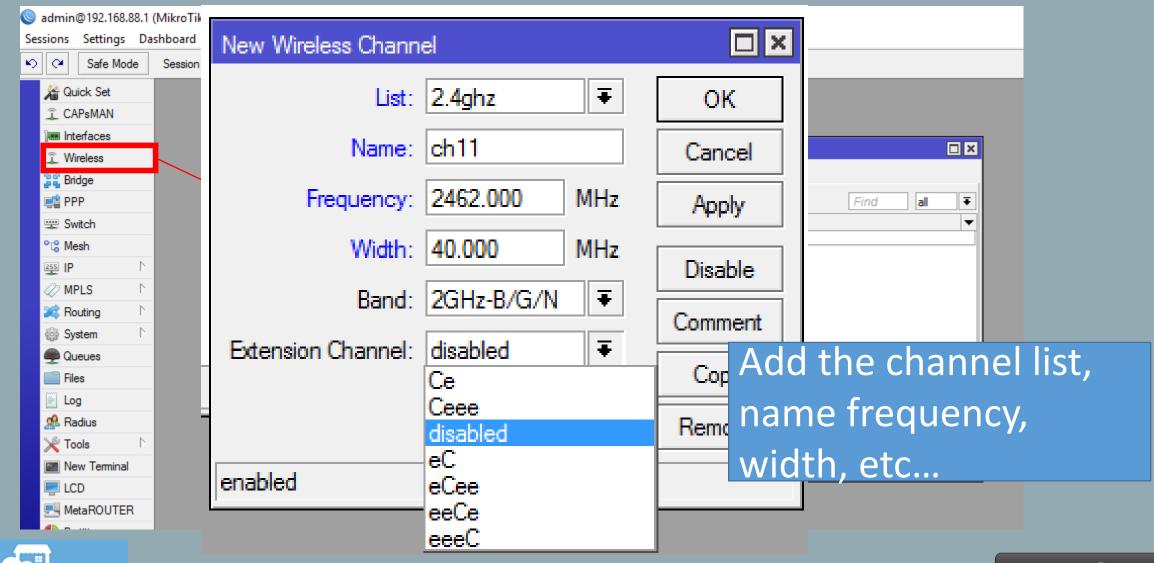






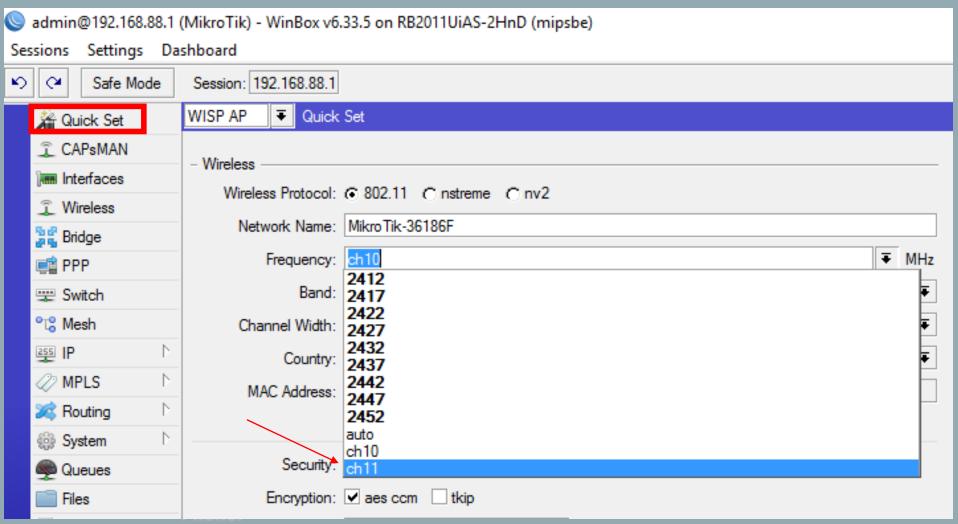
















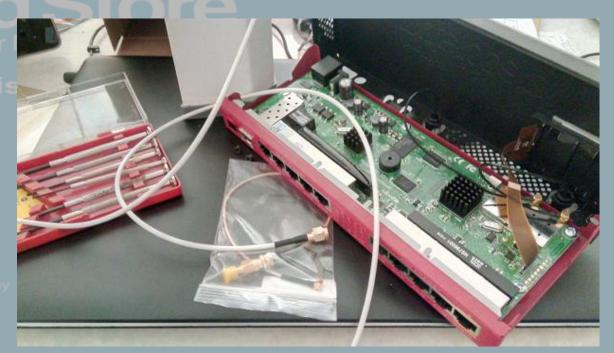


WHY MIKROTIK

- Flexible
- Feature rich (example: Virtual AP)
- Powerful

RB2011UiAS-2HnD-IN

- 802.11n 2.4GHz
- Free WiFi Hotspot
- Sector Antenna







Thank You



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Q&A

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