Managing Wireless Access with RouterOS

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Overview

- Various methods can be used to control access
- Methods for control can be implemented for various purposes
    - Security
    - Management
- RouterOS includes NUMEROUS features designed to simplify access control

The Challenge

- WISPs face a unique challenge
  - Access control should make it difficult for thieves and not difficult for the WISP
  - We don't always see our attackers (they are wireless, after all)
- Security should be considered, but management should not be forgotten
  - Centralized management is important
  - Integration with billing and ticketing systems

Hide the AP

- Proprietary protocols
  - Nv2, Nstreme
  - Half/quarter channels
- Access list for AP
- Connect list for stations
- Encryption/Authentication

More Than One Solution

- Radius Solutions
  - Mikrotik's User Manager
    - Easy to use once it's configured
  - FreeRadius or others
    - Many use SQL backend for integration
- Provide authentication and accounting
  - PPPoE
  - Wireless
  - DHCP

Let's Look at a few Mikrotik Specific options