

CAPsMAN SICE Controller

CAPsMAN Features

- Centralized management of SICE APs
- Dual Band AP support
- Provisioning of APs
- MAC and IP Layer communication with APs
- Certificate support for AP communication
- Full and Local data forwarding mode
- RADIUS MAC authentication



Custom configuration support

Requirements

- CAPsMAN controller
- Newest OS v6.36.3 version
- Wireless-rep package installed and enabled
- CAP
- SICE based device
- Newest OS v6.36.3 version
- Radio (a/b/g/n/ac) wireless card
- Wireless-rep package installed and enabled
- At least Level4 license

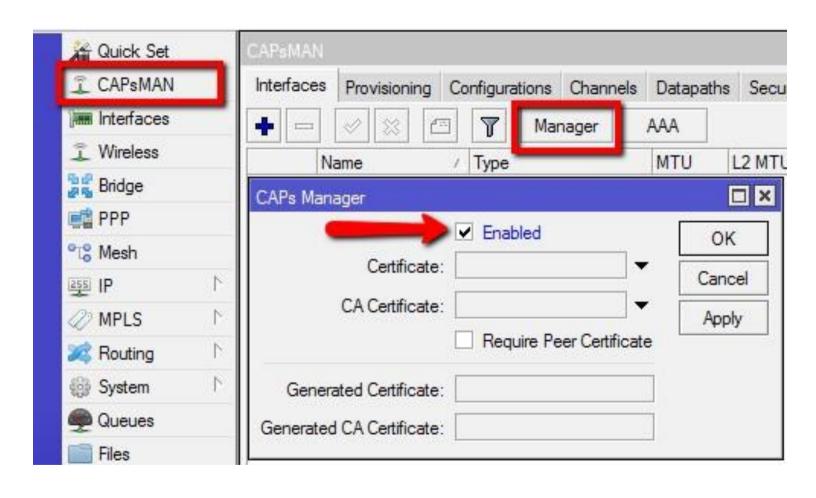


CAPsMAN Simple Setup

- Enable CAPsMAN service
- Create Bridge interface
- Add IP configuration to Bridge interface
- Create CAPsMAN Configuration
- Create Provisioning rule
- Enable CAP mode on the APs

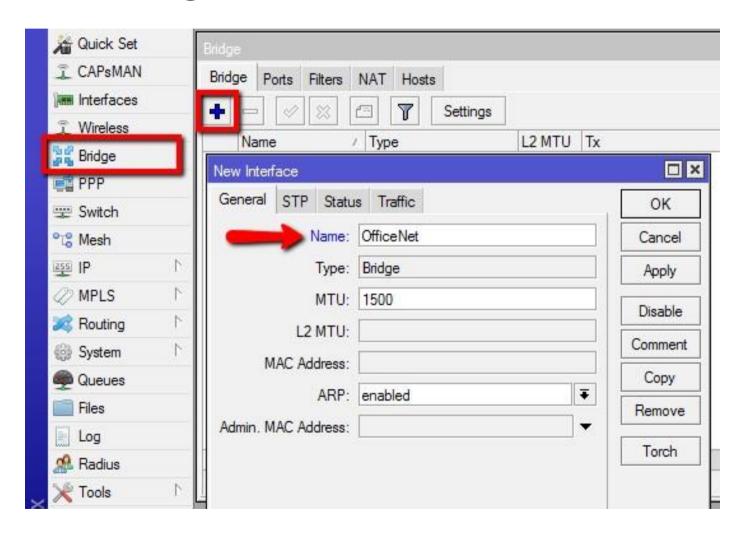


Enable the CAPsMAN service



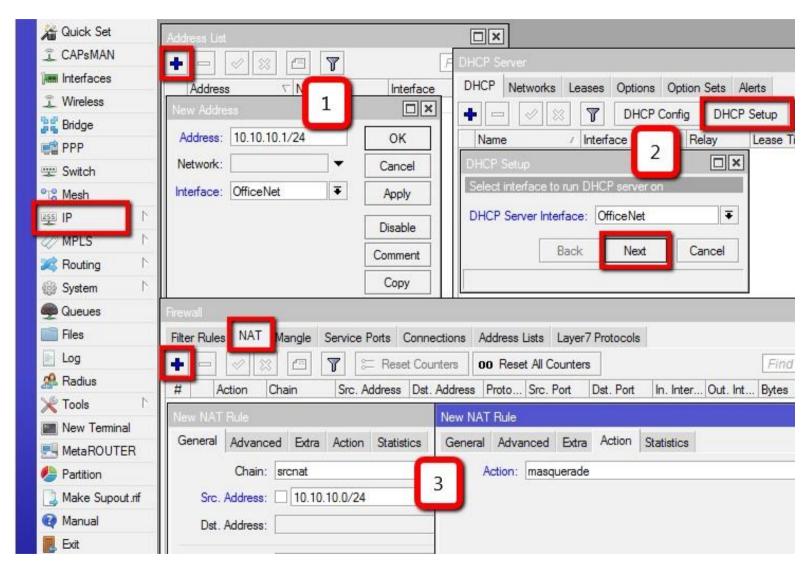


Create Bridge Interface





- 1.Add IP address
- 2.Add DHCP Server
- 3.Add NAT rule



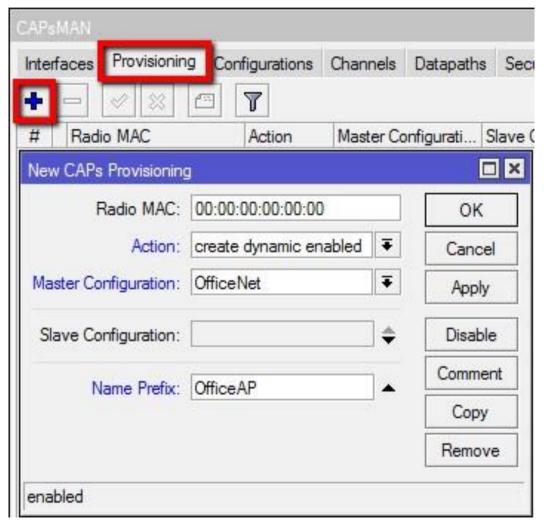


Add New CAPsMAN Configuration

Configurations Channels Datapaths Security Cfg. Access List Remote CAP Radio Registration Table Provisioning 7 Find / SSID Hide SSID Load Bal... Country Channel Frequency Band Name Datapat ▼ New CAPs Configuration Wireless Channel Datapath Security Wireless Channel Datapath Wireless Channel Datapath Security Security Name: OfficeNet Datapath: Security: Mode: Bridge: OfficeNet Authentication Type: ✓ WPA PSK ✓ WPA2 PSK ☐ WPA EAP ☐ WPA2 EAP ▲ SSID: Office Bridge Cost: Encryption: v aes ccm tkip Hide SSID: Bridge Horizon: + Group Encryption: aes ccm Load Balancing Group: Passphrase: OfficeNet Local Forwarding: Country: united states EAP Methods: Client To Client Forwarding: Max Station Count: VLAN Mode: Multicast Helper: VLAN ID: HT Tx Chains: HT Rx Chains: HT Guard Interval:



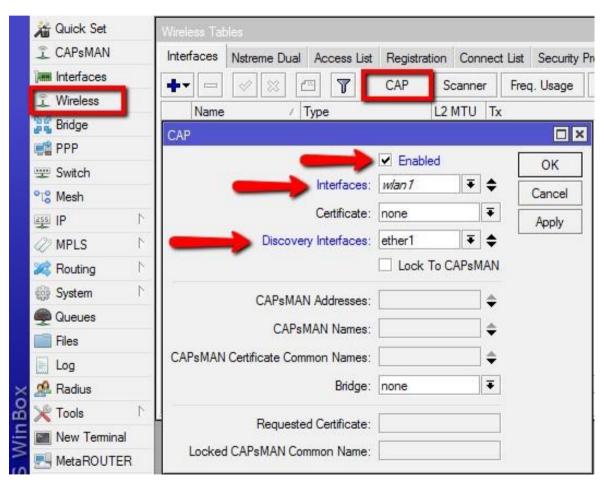
Add new Provisioning rule





Configure the AP to use CAP mode

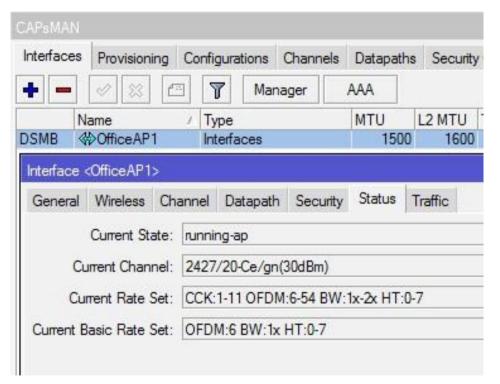
- Enable wireless-rep package
- Enable CAP mode
- By configuration in Wireless CAP menu



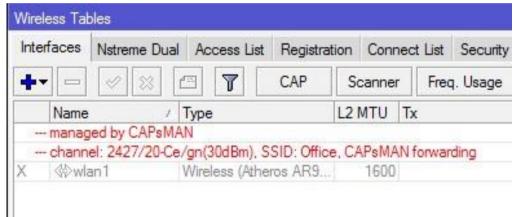


Check the Status of the CAPsMAN CAP interface

CAPSMAN

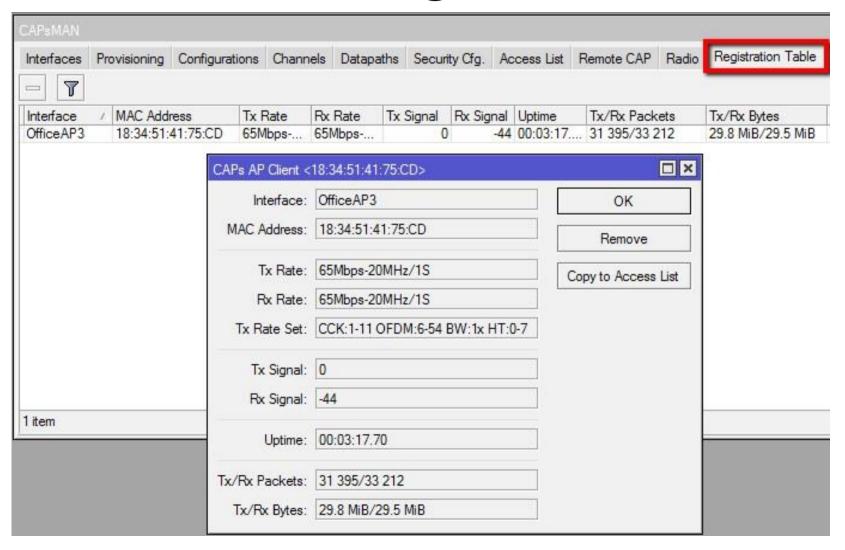


CAP





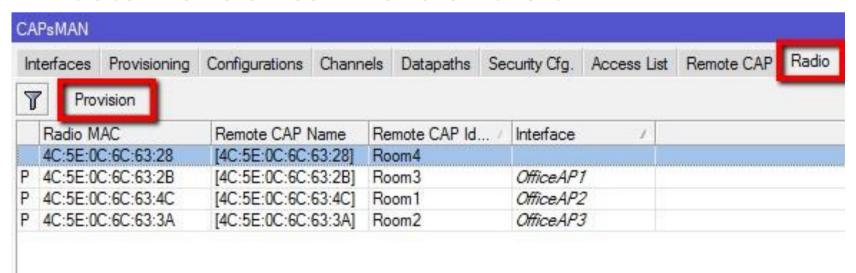
CAPsMAN Registration table





Provisioning

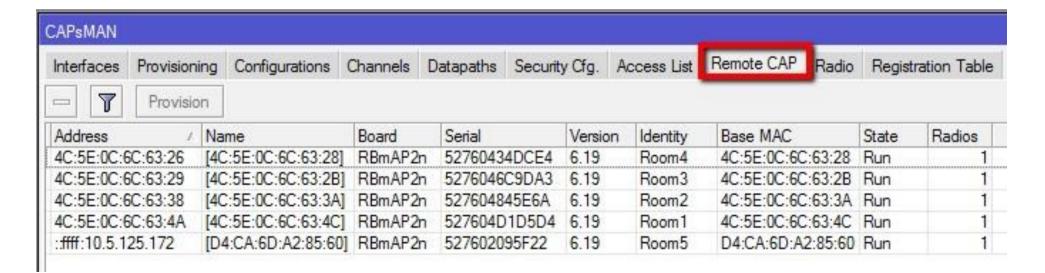
- Changing Provisioning rules doesn't effect already configured CAPs, manual Provisioning required:
 - Remove CAP interface
 - Initiate Provision command on the CAP





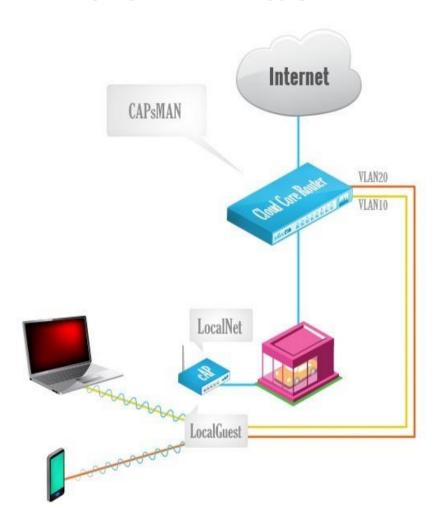
CAP Identification

- MAC/IP address
 System Identity
- Board model
 Main wireless MAC
- Serial Number of the Board
 State of the CAP
- OS version
 Provided radio count



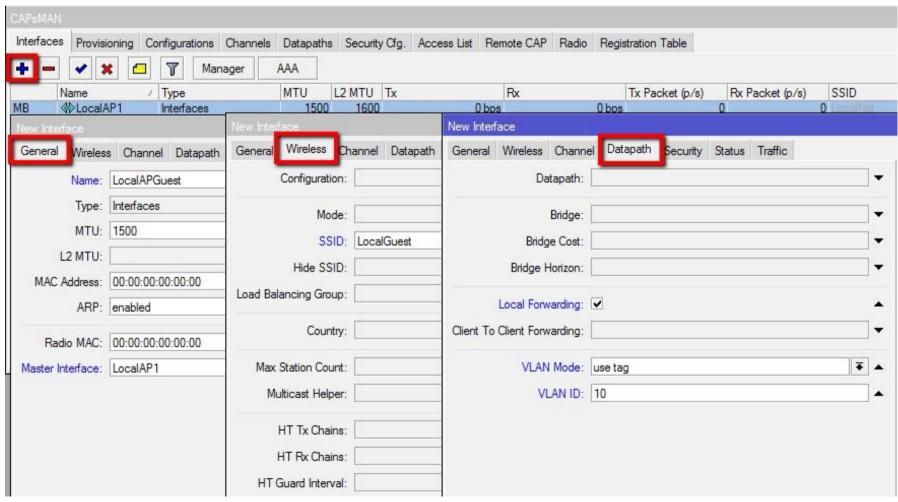


CAPSMAN VLAN ASSIGNMENT



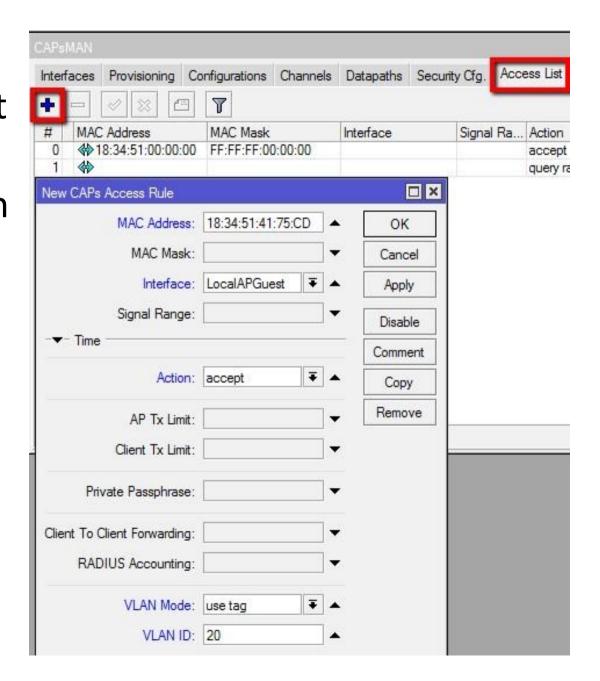


- When using Local Forwarding CAPsMAN can assign VLAN ID to specific CAP interface or even specific wireless client
- Create Slave interface with Vlan tag



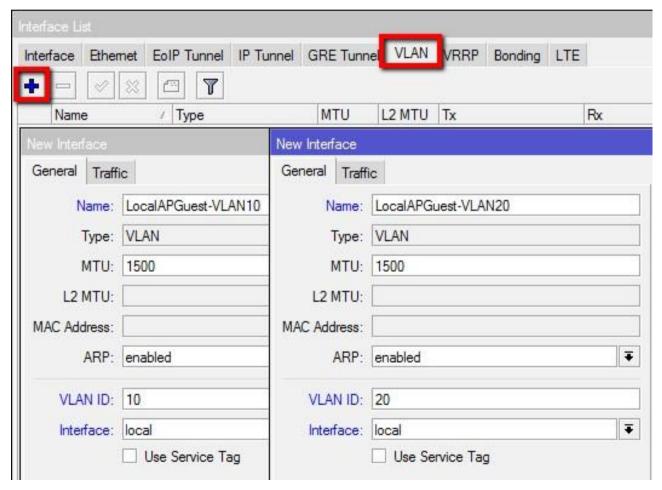


- Create Access List
 rule for specific client
 to get tagged to
 Management Vlan on
 the same
 CAP interface
- Move the Access List rule above the previous ones
- Create VLAN interfaces on the

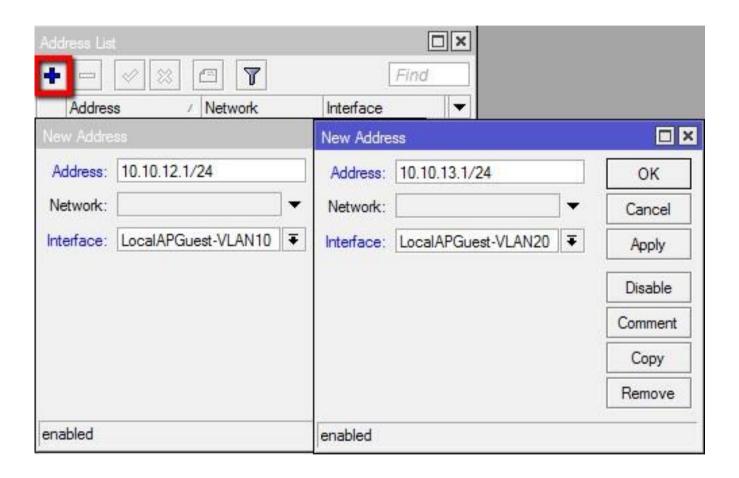




CAPsMAN router interface where the CAPs are connected



Assign IPs to VLAN interfaces on CAPsMAN





CAPsMAN Dual Band CAP

- If the Channel settings are not specified it will automatically use the supported band/channel
- If specific Channel settings are required then specific
 Provisioning rules are required
 - Custom Channel settings
 - Dual band wireless interface support
- Create 3 configurations:
 - Config for both bands radio
 - Config for 5ghz only radio
 - Config for 2.4ghz only radio

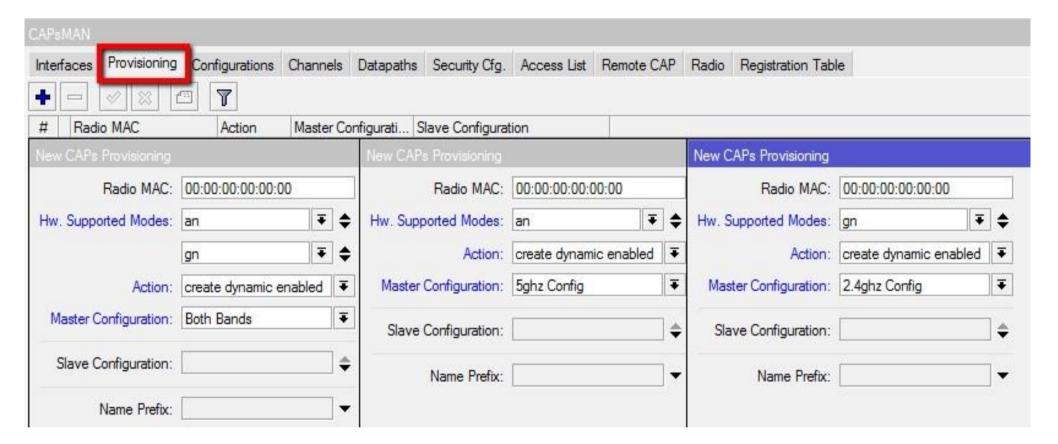


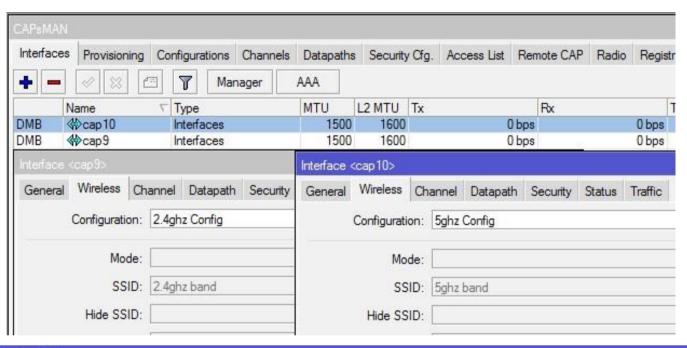


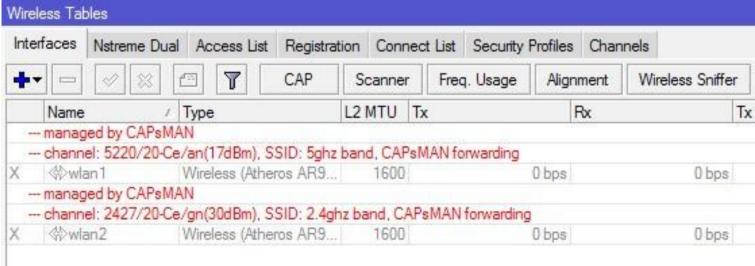
Create 3 Provisioning rules

- For A/N,G/N hardware use Both Bands config
- For A/N hardware use 5ghz config
- For G/N hardware use 2.4ghz config











CAPsMAN Configuration

override Configuration

overrides Channel setting

Interface overrides
 Channel and Configuration setting

