

# Enhanced Wireless Point to Point

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PH16-MUM



## Profile:

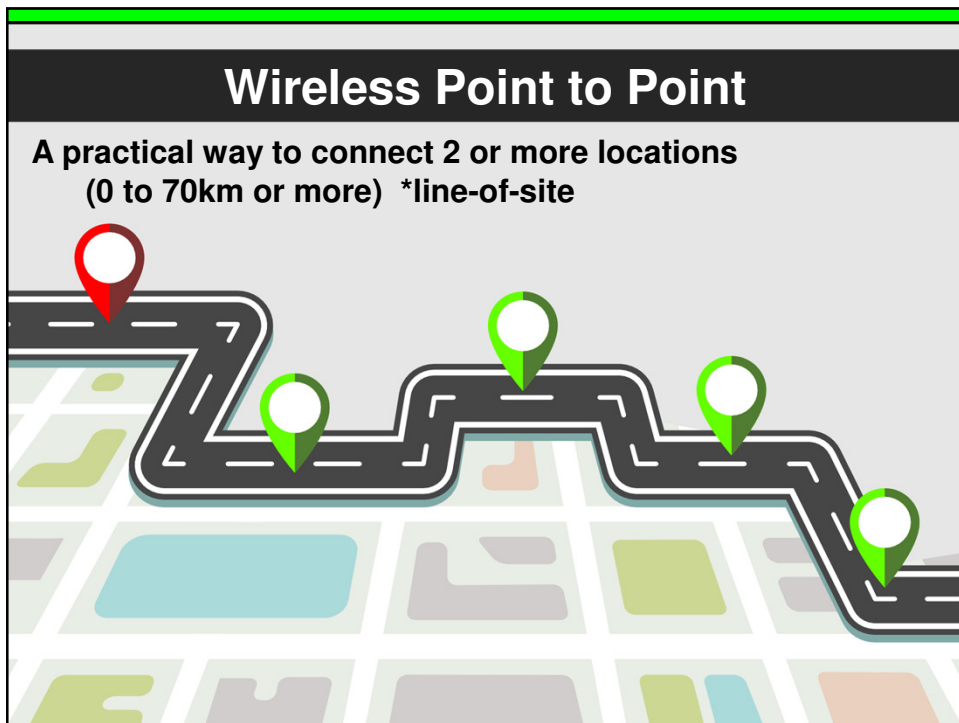
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Network Engineer

MTCNA - 1403NA231  
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MTCWE - 1403WE045  
MTCTCE- 1504TCE023  
MTCINE - 1504INE021  
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## What do we have for today?

- **Basic Wireless Point to Point.**
- **Wireless Point to Point plus:**
  - A. **VLAN & Dual WAN.**
  - B. **VRRP.**
  - C. **POE-out Router & Netwatch.**





## Application of Wireless Point to Point

- Office to Office connection.



## Application of Wireless Point to Point

- Office to Home connection.



# Wireless Point to Point

Access Point

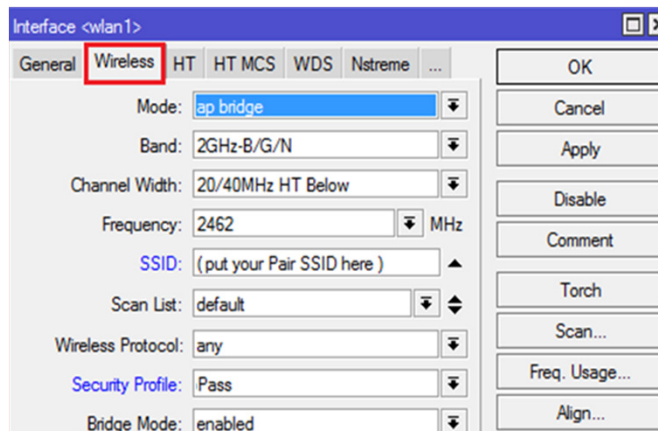


Client



# Configuration on AP Side

- **Configure Wireless as (AP-Bridge or Bridge)**



Interface <wlan1>

General **Wireless** HT HT MCS WDS Nstreme ...

Mode: ap bridge

Band: 2GHz-B/G/N

Channel Width: 20/40MHz HT Below

Frequency: 2462 MHz

SSID: (put your Pair SSID here)

Scan List: default

Wireless Protocol: any

Security Profile: Pass

Bridge Mode: enabled

OK  
Cancel  
Apply  
Disable  
Comment  
Torch  
Scan...  
Freq. Usage...  
Align...

## Configuration on AP Side

- Bridge ports (Ether1, Wlan1)

Bridge					
Bridge	Ports	Filters	NAT	Ho	
Interface	Bridge				
ether1	bridae1				
wlan1	bridae1				

## Wireless Point to Point (AP)



## Configuration on Client Side

- Configure Wireless as (Station Bridge)  
call password profile, Scan & Connect.

## Configuration on Client Side

- Bridge ports (Ether1, Wlan1)

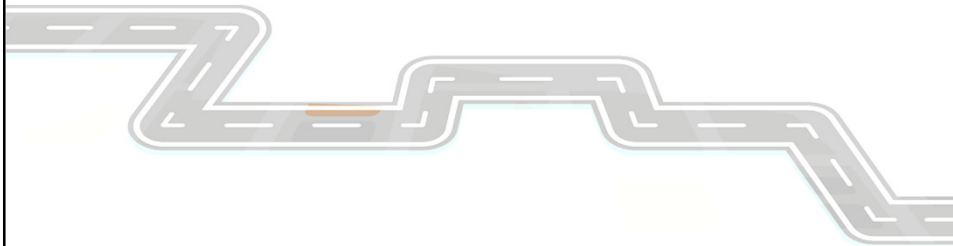
Interface	Bridge
ether1	bridge1
wlan1	bridge1

## Wireless Point to Point (AP-Client)



## Configuration benefits?

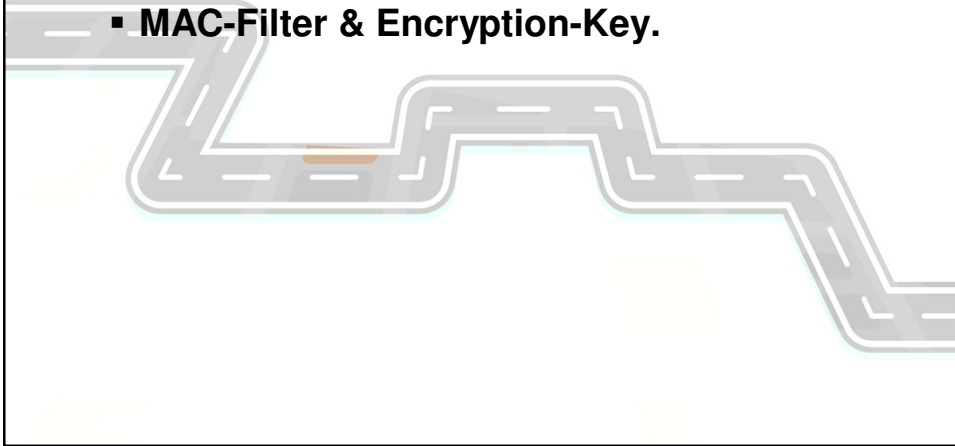
- Have 2 or more sites running on a single Network segment.
- Easy resources sharing between sites.



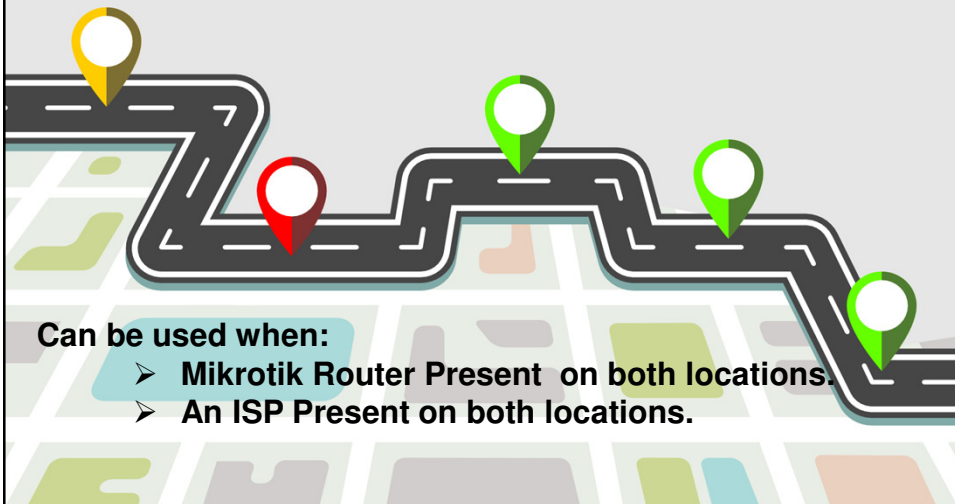


## Improvements & Security

- HT, TX-power, Wireless chain & Alignment.
- MAC-Filter & Encryption-Key.



## Wireless Point to Point setup with VLAN & Dual WAN

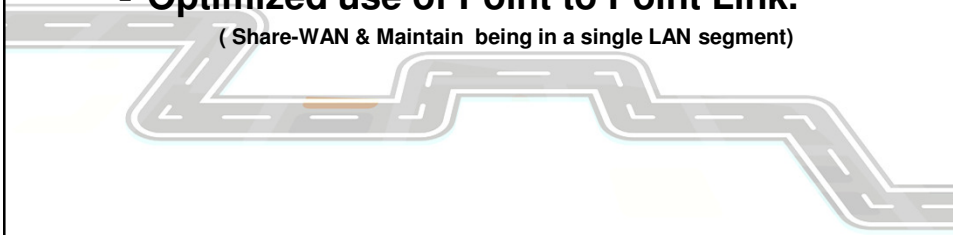


Can be used when:

- Mikrotik Router Present on both locations.
- An ISP Present on both locations.

## Configuration benefits?

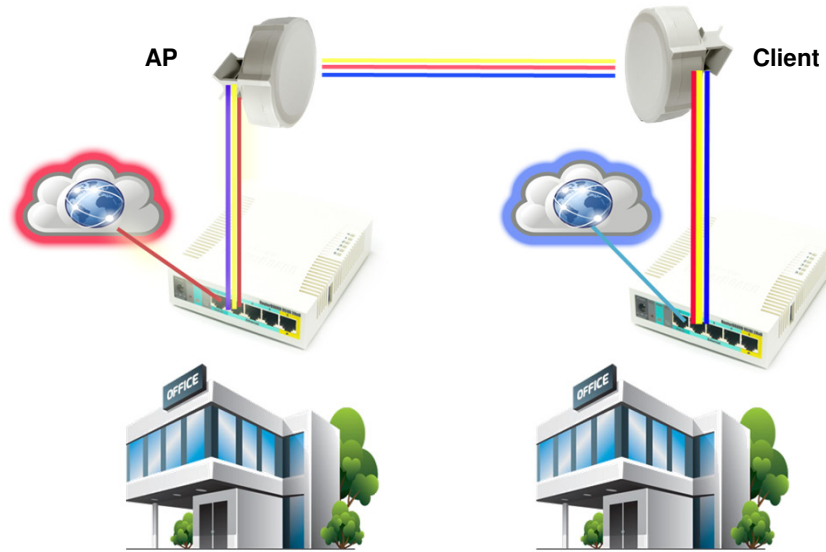
- Maximize usage of both ISP.
- Avoid possible internet down time.  
( Multi-WAN & Multi-Site Internet Source)
- Optimized use of Point to Point Link.  
( Share-WAN & Maintain being in a single LAN segment)



## ISP available on both site



## Set-up Suggested



**Configuration  
of RB  
on AP.  
(RB951)**

## Configuration of RB on AP. (RB951)

### VLAN's

admin@192.168.100.1 (AP-site-gateway) - WinBox v6.30.4 on RB951G-2HnD (mipsbe)

Interface List

Interface	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)
S ether1-WAN1	Ethernet	1598	0 bps	0 bps	0	0
R ether2-Wireless-Tap-Port	Ethernet	1598	824 bps	3.3 kbps	1	1
RS vlan100-WAN1	VLAN	1594	424 bps	0 bps	1	1
R vlan200-WAN2	VLAN	1594	0 bps	0 bps	0	0
R vlan210-EoIP	VLAN	1594	0 bps	0 bps	0	0

Interface <vlan100-WAN1>

General Status Traffic

Name:

Type:

MTU:

L2 MTU:

MAC Address:

ARP:

VLAN ID:

Interface:

Use Service Tag

Interface <vlan200-WAN2>

General Status Traffic

Name:

Type:

MTU:

L2 MTU:

MAC Address:

ARP:

VLAN ID:

Interface:

Use Service Tag

Interface <vlan210-EoIP>

General Status Traffic

Name:

Type:

MTU:

L2 MTU:

MAC Address:

ARP:

VLAN ID:

Interface:

Use Service Tag

## Configuration of RB on AP. (RB951)

### EoIP Tunnel

admin@192.168.100.1 (AP-site-gateway) - WinBox v6.30.4 on RB951G-2HnD (mipsbe)

Interface List

Interface	Type	Local Address	Remote Address	Tunnel ID
eoip-tunnel-to-branch	EoIP Tunnel	10.10.10.10	11.11.11.11	5

Interface <eoip-tunnel-to-branch>

General Status Traffic

Name:

Type:

MTU:

Actual MTU:

L2 MTU:

MAC Address:

ARP:

Local Address:

Remote Address:

Tunnel ID:

## Configuration of RB on AP. (RB951)

- **Bridge**

admin@192.168.100.1 (AP-site-gateway) - WinBox v6.30.4 on RB951G-2HnD (mipsbe)

Bridge					
Bridge Ports Filters NAT Hosts					
Settings					
Name	Type	L2 MTU	Tx	Rx	
R LOCAL	Bridge	1598		78.9 kbps	
R bridge-vlan100	Bridge	1594		0 bps	

- **Bridge-Ports**

admin@192.168.100.1 (AP-site-gateway) - WinBox v6.30.4 on RB951G-2HnD (mipsbe)

Bridge Ports Filters NAT Hosts						
Interface	Bridge	Priority (h...)	Path Cost	Horizon	Role	
leip-tunnel-to-branch	LOCAL	80	10		designated port	
ether3-Local	LOCAL	80	10		disabled port	
ether4-Local	LOCAL	80	10		disabled port	
ether5-Local	LOCAL	80	10		designated port	
wlan7-Local	LOCAL	80	10		disabled port	
ether1-WAN1	bridge-vlan100	80	10		disabled port	
vlan100-WAN1	bridge-vlan100	80	10		designated port	

## Configuration of RB on AP. (RB951)

- **IP's (for Static)**

Address List		
Address	Network	Interface
10.10.10.10	11.11.11.11	vlan210-EoIP
100.100.100.98/29	100.100.100.96	bridge-vlan100
192.168.100.1/24	192.168.100.0	LOCAL
200.200.200.98/29	200.200.200.96	vlan200-WAN2

Address <100.100.100.98/29>	
Address: 100.100.100.98/29	OK
Network: 100.100.100.96	Cancel
Interface: bridge-vlan100	Apply
Disable	

Address <200.200.200.98/29>	
Address: 200.200.200.98/29	OK
Network: 200.200.200.96	Cancel
Interface: vlan200-WAN2	Apply
Disable	

Address <192.168.100.1/24>	
Address: 192.168.100.1/24	OK
Network: 192.168.100.0	Cancel
Interface: LOCAL	Apply

Address <10.10.10.10>	
Address: 10.10.10.10	OK
Network: 11.11.11.11	Cancel
Interface: vlan210-EoIP	Apply

## Configuration of RB on AP. (RB951)

- IP's (for DHCP supplied)

The screenshot shows the 'Address List' configuration window in Mikrotik WinBox. It contains a table with the following data:

Address	Network	Interface
10.10.10.10	11.11.11.11	vlan210-EoIP
192.168.100.1/24	192.168.100.0	LOCAL

Below the table, there are two configuration panels. The left panel is for the address <192.168.100.1/24> and the right panel is for <10.10.10.10>. Each panel has fields for Address, Network, and Interface, along with OK, Cancel, and Apply buttons.

## Configuration of RB on AP. (RB951)

- IP's (for DHCP supplied)

The screenshot shows the 'DHCP Client' configuration window in Mikrotik WinBox. It has two tabs: 'DHCP Client' and 'DHCP Client Options'. The 'DHCP Client' tab is active and shows a list of DHCP clients:

Interface	Use P...	Add D...	IP Address	Expires After
bridge-vlan100	yes			
vlan200-WAN2	yes			

Below the list, there are two configuration panels. The left panel is for 'DHCP Client <bridge-vlan100>' and the right panel is for 'DHCP Client <vlan200-WAN2>'. Each panel has fields for Interface, Use Peer DNS, Use Peer NTP, DHCP Options (hostname, clientid), Add Default Route, and Default Route Distance. The 'Add Default Route' field is set to 'no' in both panels.



## Configuration of RB on AP. (RB951)

### Routes (ECMP Load Balance & Fail-over)

Route List

Routes	Nexthops	Rules	VRF	Distance	Routing Mark
... ECMP (Load Balancing)					
AS	▶ 0.0.0.0/0	200.200.200.97 reachable vlan200-WAN2, 100.100.100.97 reachable bridge-vlan100		1	
AS	▶ 0.0.0.0/0	200.200.200.97 reachable vlan200-WAN2		10	to_WAN2
AS	▶ 0.0.0.0/0	100.100.100.97 reachable bridge-vlan100		10	to_WAN1

Route <0.0.0.0/0>

General | Attributes

Dst. Address: 0.0.0.0/0

Gateway: 200.200.200.97 reachable vlan200-WAN2

100.100.100.97 reachable bridge-vlan100

## Configuration of RB on AP. (RB951)

### Routes (Fail-over)

Route List

Routes	Nexthops	Rules	VRF	Distance	Routing Mark
... Fail-Over					
AS	▶ 0.0.0.0/0	100.100.100.97 reachable bridge-vlan100		1	
S	▶ 0.0.0.0/0	200.200.200.97 reachable vlan200-WAN2		10	
AS	▶ 0.0.0.0/0	200.200.200.97 reachable vlan200-WAN2		10	to_WAN2
AS	▶ 0.0.0.0/0	100.100.100.97 reachable bridge-vlan100		10	to_WAN1

Gateway: 200.200.200.97 reachable vlan200-WAN2

100.100.100.97 reachable bridge-vlan100



# Configuration of RB on Client. (RB951)

## Configuration of RB on Client. (RB951)

- VLAN's

Interface List

Interface	Ethernet	EoIP Tunnel	IP Tunnel	GRE Tunnel	VLAN	VRRP	Bonding	LTE
S	ether1-WAN1							
R	ether2-Wireless-Tap-Port							
RS	vlan200-WAN1							
R	vlan100-WAN2							
R	vlan210-EoIP							

Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)
ether1-WAN1	Ethernet	1598	0 bps	0 bps	0	0
ether2-Wireless-Tap-Port	Ethernet	1598	824 bps	3.3 kbps	1	1
vlan200-WAN1	VLAN	1594	424 bps	0 bps	1	0
vlan100-WAN2	VLAN	1594	0 bps	0 bps	0	0
vlan210-EoIP	VLAN	1594	0 bps	0 bps	0	0

Interface <vlan100-WAN1>	Interface <vlan200-WAN2>	Interface <vlan210-EoIP>
<b>General</b>   Status   Traffic	<b>General</b>   Status   Traffic	<b>General</b>   Status   Traffic
Name: <input type="text" value="vlan200-WAN1"/>	Name: <input type="text" value="vlan100-WAN2"/>	Name: <input type="text" value="vlan210-EoIP"/>
Type: <input type="text" value="VLAN"/>	Type: <input type="text" value="VLAN"/>	Type: <input type="text" value="VLAN"/>
MTU: <input type="text" value="1500"/>	MTU: <input type="text" value="1500"/>	MTU: <input type="text" value="1500"/>
L2 MTU: <input type="text" value="1594"/>	L2 MTU: <input type="text" value="1594"/>	L2 MTU: <input type="text" value="1594"/>
MAC Address: <input type="text" value="E4:8D:8C:46:D1:2F"/>	MAC Address: <input type="text" value="E4:8D:8C:46:D1:2F"/>	MAC Address: <input type="text" value="E4:8D:8C:46:D1:2F"/>
ARP: <input type="text" value="enabled"/>	ARP: <input type="text" value="enabled"/>	ARP: <input type="text" value="enabled"/>
VLAN ID: <input type="text" value="200"/>	VLAN ID: <input type="text" value="100"/>	VLAN ID: <input type="text" value="210"/>
Interface: <input type="text" value="ether2-Wireless-Tap-Port"/>	Interface: <input type="text" value="ether2-Wireless-Tap-Port"/>	Interface: <input type="text" value="ether2-Wireless-Tap-Port"/>
<input type="checkbox"/> Use Service Tag	<input type="checkbox"/> Use Service Tag	<input type="checkbox"/> Use Service Tag

## Configuration of RB on Client. (RB951)

- EoIP Tunnel

The screenshot shows the Mikrotik WinBox interface for configuring an EoIP Tunnel. The left sidebar lists various interface types, with 'EoIP Tunnel' selected. The main window displays the configuration for the interface 'eoiP-tunnel-to-branch'.

Field	Value
Name	eoiP-tunnel-to-branch
Type	EoIP Tunnel
MTU	[Dropdown]
Actual MTU	1458
L2 MTU	65535
MAC Address	02:4B:EA:DF:37:15
ARP	enabled
Local Address	11.11.11.11
Remote Address	10.10.10.10
Tunnel ID	5

## Configuration of RB on Client. (RB951)

- Bridge

The screenshot shows the Mikrotik WinBox Bridge configuration window. The 'Bridge' tab is active, and a table lists the configured bridge interfaces.

	Name	Type	L2 MTU	Tx
R	LOCAL	Bridge	1598	78.9 kbps
R	bridge-vlan200	Bridge	1594	0 bps

- Bridge-Ports

The screenshot shows the Mikrotik WinBox Bridge-Ports configuration window. The 'Bridge-Ports' tab is active, and a table lists the configured bridge ports.

	Interface	Bridge	Priority (h...)	Path Cost	Horizon	Role
	eoiP-tunnel-to-branch	LOCAL	80	10	10	designated port
I	ether3-Local	LOCAL	80	10	10	disabled port
I	ether4-Local	LOCAL	80	10	10	disabled port
	ether5-Local	LOCAL	80	10	10	designated port
I	wlan1-Local	LOCAL	80	10	10	disabled port
I	ether1-WAN1	bridge-vlan200	80	10	10	disabled port
	vlan200-WAN1	bridge-vlan200	80	10	10	designated port

## Configuration of RB on Client. (RB951)

- IP's (for Static)

The image shows four separate dialog boxes for configuring static IP addresses. Each dialog has fields for Address, Network, and Interface, along with OK, Cancel, Apply, and Disable buttons.

- Dialog 1:** Address: 100.100.100.99/29, Network: 100.100.100.96, Interface: vlan100-WAN2
- Dialog 2:** Address: 200.200.200.99/29, Network: 200.200.200.96, Interface: bridge-vlan200
- Dialog 3:** Address: 192.168.100.100/24, Network: 192.168.100.0, Interface: LOCAL
- Dialog 4:** Address: 11.11.11.11, Network: 10.10.10.10, Interface: vlan210-EoIP

## Configuration of RB on Client. (RB951)

- IP's (for DHCP supplied)

The image shows an 'Address List' table and two static IP configuration dialog boxes. The table lists the IP addresses and their associated networks and interfaces.

Address	Network	Interface
11.11.11.11	10.10.10.10	vlan210-EoIP
192.168.100.100/24	192.168.100.0	LOCAL

Below the table are two dialog boxes for configuring static IP addresses:

- Dialog 1:** Address: 192.168.100.100/24, Network: 192.168.100.0, Interface: LOCAL
- Dialog 2:** Address: 11.11.11.11, Network: 10.10.10.10, Interface: vlan210-EoIP

## Configuration of RB on Client. (RB951)

- IP's (for DHCP supplied)

The screenshot displays the DHCP Client configuration in WinBox. At the top, there is a table with columns for 'Interface', 'Use Peer DNS', 'Add D...', 'IP Address', and 'Expires After'. Two rows are visible: 'bridge-vlan200' and 'vlan100-WAN1', both with 'yes' in the 'Use Peer DNS' column. Below the table are two detailed configuration panels for 'DHCP Client'. The first panel is for 'bridge-vlan200' and the second is for 'vlan100-WAN2'. Both panels have 'Add Default Route' set to 'no'. The 'Interface' dropdown in the second panel is also highlighted.

## Configuration of RB on Client. (RB951)

- DNS

The screenshot shows the DNS Settings configuration. The 'Servers' field contains two entries: '8.8.8.8' and '8.8.4.4'. The 'Dynamic Servers' field is empty. The 'Allow Remote Requests' checkbox is checked. The 'Max UDP Packet Size' is set to 4096.

- DHCP; DHCP-Pool

The screenshot displays the DHCP Server and IP Pool configuration. The DHCP Server 'dhcp1' is configured with 'Interface: LOCAL', 'Lease Time: 3d 00:00:00', and 'Address Pool: dhcp\_pool1'. The IP Pool 'dhcp\_pool1' is configured with 'Addresses: 192.168.100.101 - 192.168.100.150'.

## Configuration of RB on Client. (RB951)

### Firewall-NAT

Firewall			
Filter Rules	NAT	Mangle	Service Ports
+	-	✓	✗
00	00	00	00
#	Action	Chain	Out. Interface
0	masquerade	srcnat	bridge-vlan 200
1	masquerade	srcnat	vlan100-WAN2

### Firewall-Mangle

Firewall						
Filter Rules	NAT	Mangle	Service Ports	Connections	Address Lists	Layer7 Protocols
+	-	✓	✗	✗	✗	✗
00	00	00	00	00	00	00
#	Action	Chain	In. Interface	Connection Mark	New Connection Mark	New Routing Mark
0	mark connection	input	bridge-vlan200		wan1_conn	
1	mark connection	input	vlan100-WAN2		wan2_conn	
2	mark routing	output		wan1_conn		to_WAN1
3	mark routing	output		wan2_conn		to_WAN2

## Configuration of RB on Client. (RB951)

### Routes (ECMP Load Balance & Fail-over)

Route List			
Routes	Nexthops	Rules	VRF
	Dst. Address	Gateway	Distance Routing Mark
ECMP (Load Balancing)			
AS	0.0.0.0/0	100.100.100.97 reachable vlan100-WAN2, 200.200.200.97 reachable bridge-vlan200	1
AS	0.0.0.0/0	100.100.100.97 reachable vlan100-WAN2	10 to_WAN2
AS	0.0.0.0/0	200.200.200.97 reachable bridge-vlan 200	10 to_WAN1
Route <0.0.0.0/0>			
General Attributes			
Dst. Address: 0.0.0.0/0			
Gateway: 100.100.100.97 reachable vlan100-WAN2			
200.200.200.97 reachable bridge-vlan 200			

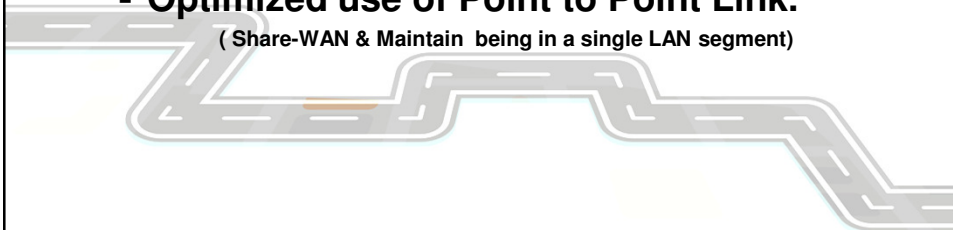
## Configuration of RB on Client. (RB951)

- **Routes (Fail-over)**

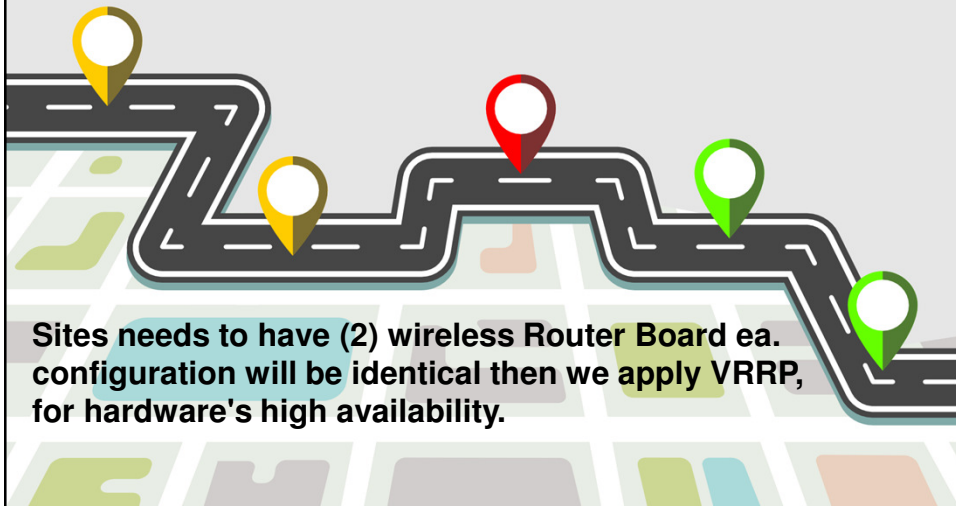
Route List				
Routes	Nexthops	Rules	VRF	
	Dst. Address	/	Gateway	Distance Routing Mark
::: Fail-Over				
AS	▶ 0.0.0.0/0		200.200.200.97 reachable bridge-vlan200	1
S	▶ 0.0.0.0/0		100.100.100.97 reachable vlan100-WAN2	10
AS	▶ 0.0.0.0/0		100.100.100.97 reachable vlan100-WAN2	10 to_WAN2
AS	▶ 0.0.0.0/0		200.200.200.97 reachable bridge-vlan200	10 to_WAN1

## Configuration benefits?

- **Maximize usage of both ISP.**
- **Avoid possible internet down time.**  
( Multi-WAN & Multi-Site Internet Source)
- **Optimized use of Point to Point Link.**  
( Share-WAN & Maintain being in a single LAN segment)



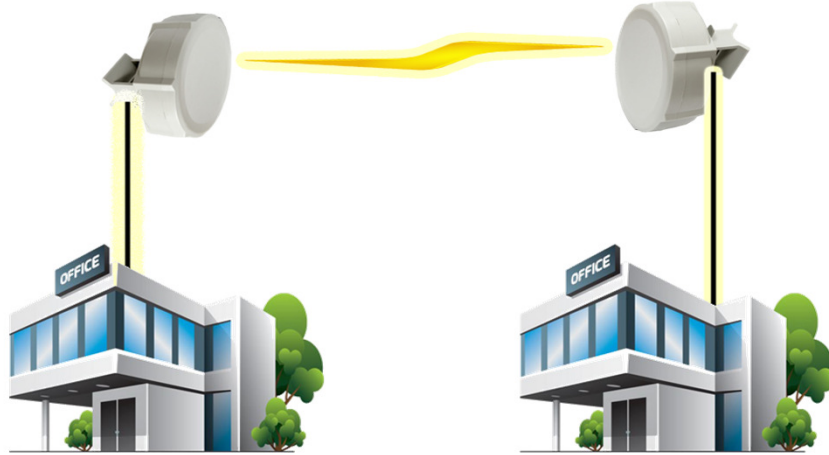
## Wireless Point to Point setup with Hardware Redundancy



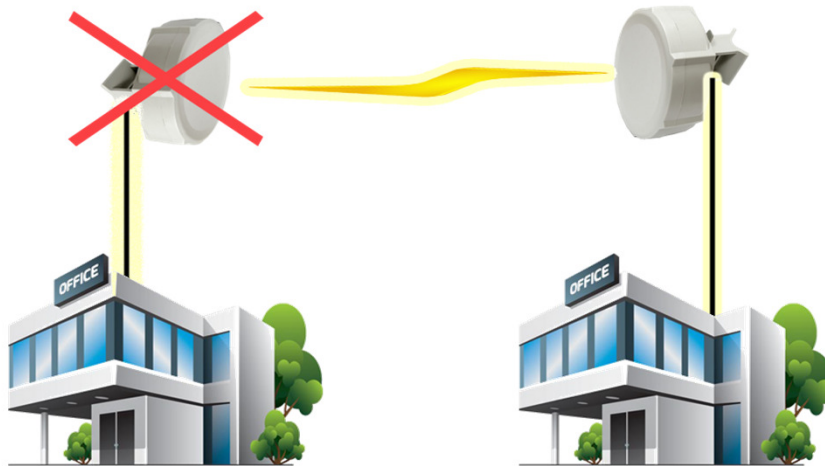
## Configuration benefits?

- Having available backup without having wireless interference.
- Avoid wireless down time.
- Automated Wireless Backup.

## Initial Point to Point

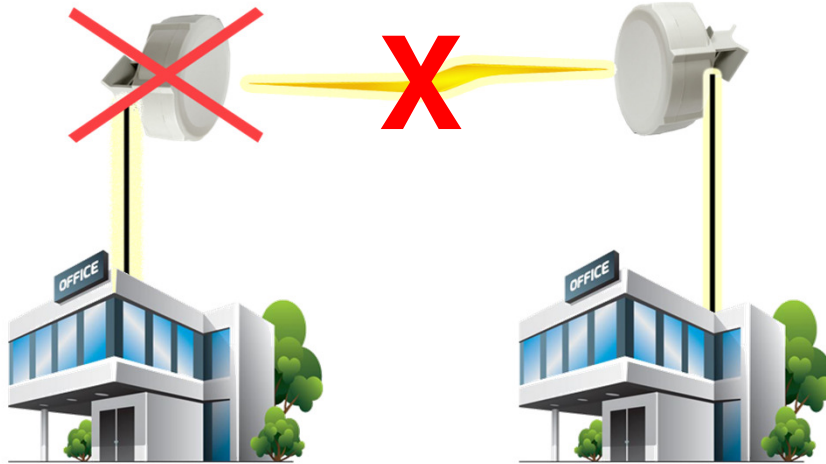


## Busted Router =

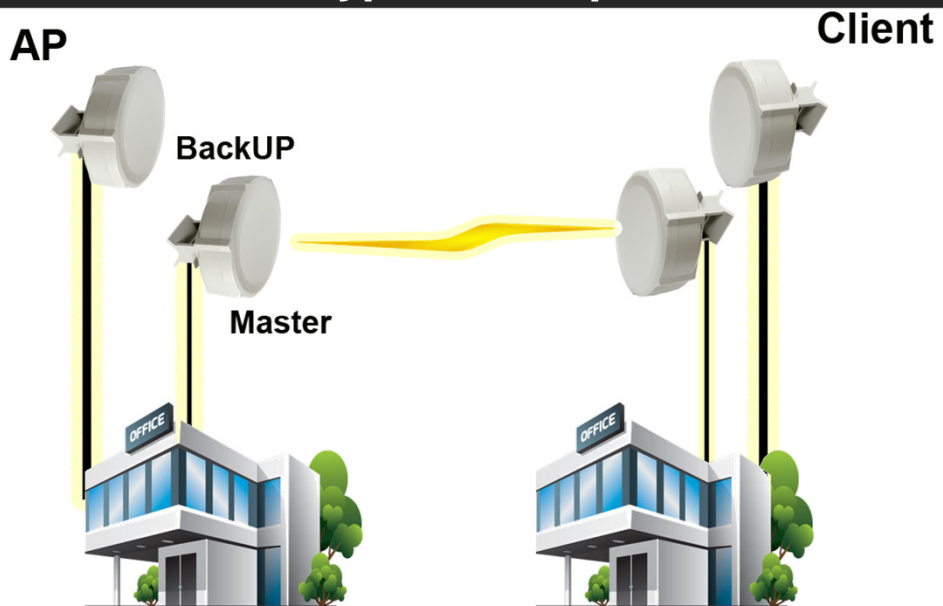




## Link Disconnection



## Typical Setup



## Configuration on AP Side

- Configure Wireless as (AP-Bridge or Bridge)

Interface <wlan1>

General **Wireless** HT HT MCS WDS Nstreme ...

Mode: ap bridge

Band: 2GHz-B/G/N

Channel Width: 20/40MHz HT Below

Frequency: 2462 MHz

SSID: (put your Pair SSID here)

Scan List: default

Wireless Protocol: any

Security Profile: Pass

Bridge Mode: enabled

OK  
Cancel  
Apply  
Disable  
Comment  
Torch  
Scan...  
Freq. Usage...  
Align...

## Configuration on AP Side

- Bridge ports (Ether1, Wlan1)

Bridge

Bridge Ports Filters NAT Ho

+ - ✓ ✗ [ ] [ ]

Interface	Bridge
ether1	brdae1
wlan1	brdae1

## Additional configuration on AP SXT's

VRRP role: Master

- VRRP Configuration

Interface <vmp-onAP> Note: Priority closer to 255 will to be the master

General

Name: vmp-onAP  
Type: VRRP  
MTU: 1500  
L2 MTU: 1598  
MAC Address: 00:00:5E:00:01:0A  
ARP: enabled

VRRP

Interface: LOCAL  
VRID: 10  
Priority: 200  
Interval: 1.00 s  
 Preemption Mode

Scripts

On Master:  
interface enable wlan1  
On Backup:  
interface disable wlan1

## Additional configuration on AP SXT's

VRRP role: Master

- Router IP & VRRP IP

Address List

Address	Network	Interface
50.50.50.50/24	50.50.50.0	vmp-onAP
192.168.100.5/24	192.168.100.0	LOCAL

Address <192.168.100.5/24>

Address: 192.168.100.5/24  
Network: 192.168.100.0  
Interface: LOCAL

Address <50.50.50.50/24>

Address: 50.50.50.50/24  
Network: 50.50.50.0  
Interface: vmp-onAP

## Additional configuration on AP SXT's

VRRP role: Backup

- VRRP Configuration

interface <vmp-onAP> ⊞ ⓧ Note: Priority closer to 255 will to be the master

General	VRRP	Scripts
Name: vmp-onAP	Interface: LOCAL	On Master: interface enable wlan1
Type: VRRP	VRID: 10	On Backup: interface disable wlan1
MTU: 1500	Priority: 100	
L2 MTU: 1598	Interval: 1.00 s	
MAC Address: 00:00:5E:00:01:0A	<input checked="" type="checkbox"/> Preemption Mode	
ARP: enabled	- Authentication	

## Additional configuration on AP SXT's

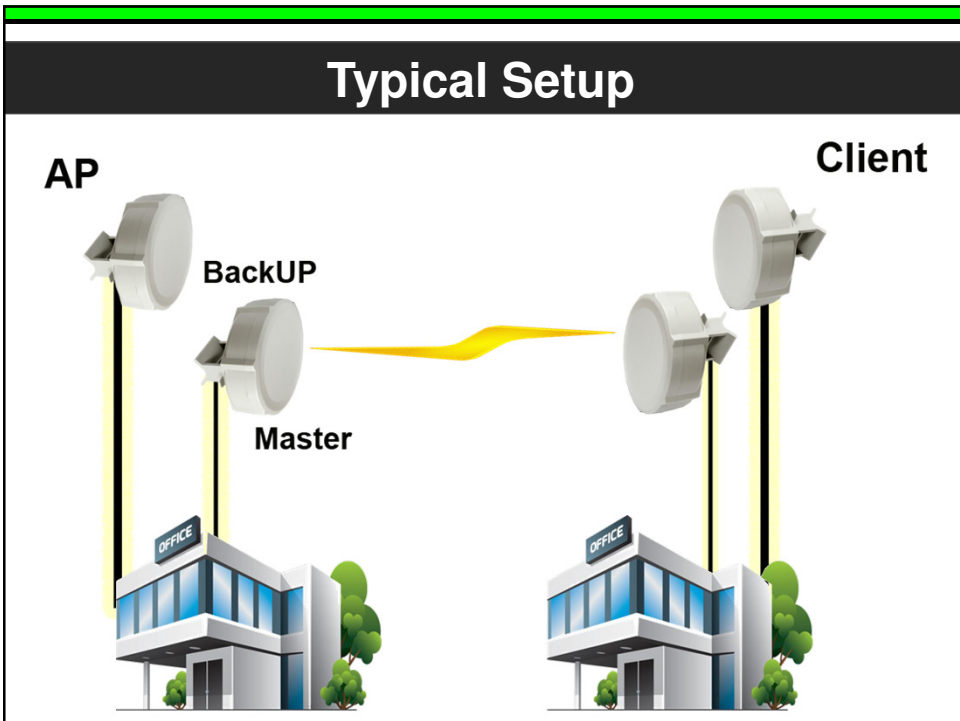
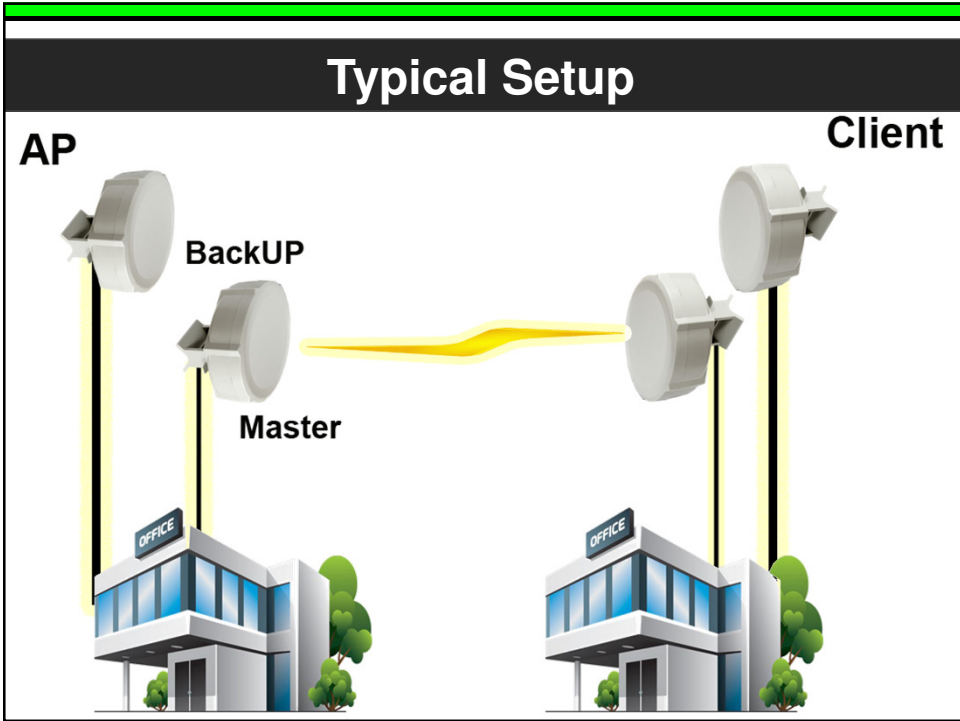
VRRP role: Backup

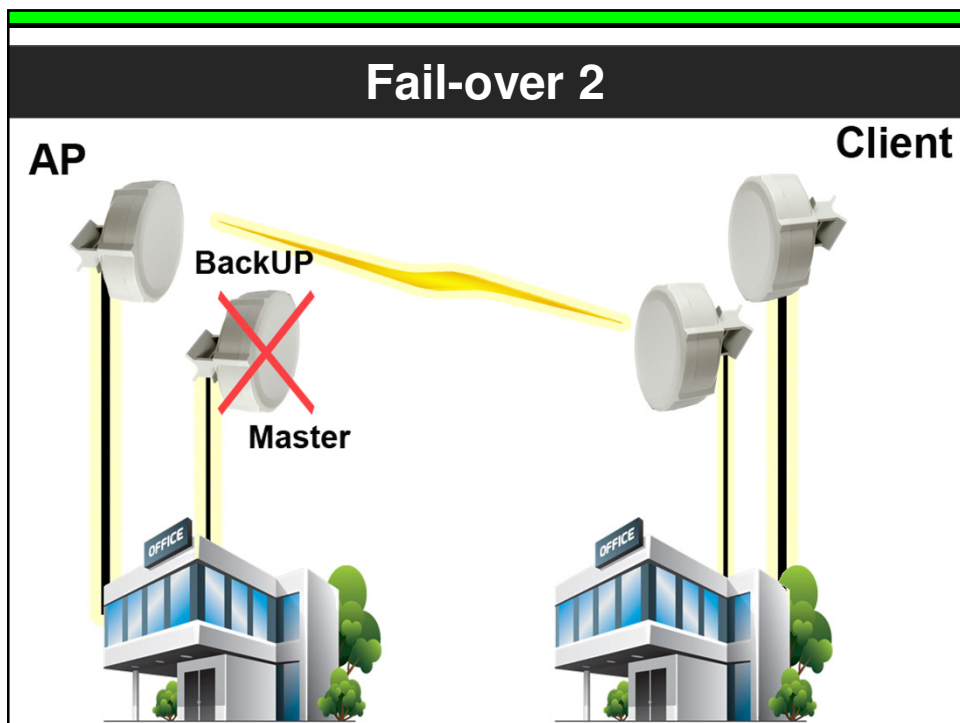
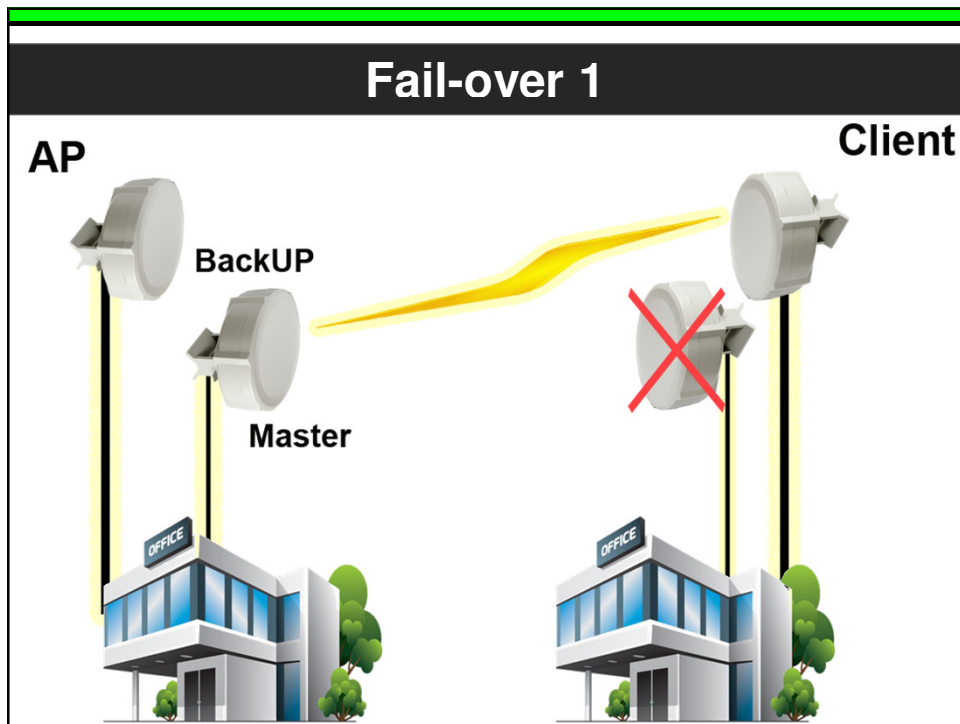
- Router IP & VRRP IP

Address List ⊞ ⓧ

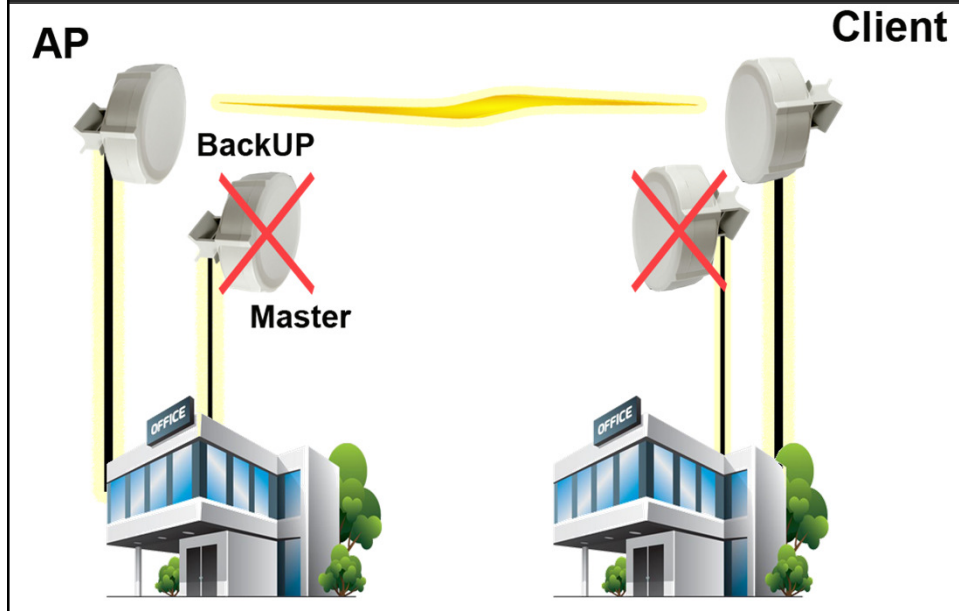
Address	Network	Interface
50.50.50.50/24	50.50.50.0	vmp-onAP
192.168.100.10/24	192.168.100.0	LOCAL

Address <192.168.100.10/24>	Address <50.50.50.50/24>
Address: 192.168.100.10/24	Address: 50.50.50.50/24
Network: 192.168.100.0	Network: 50.50.50.0
Interface: LOCAL	Interface: vmp-onAP





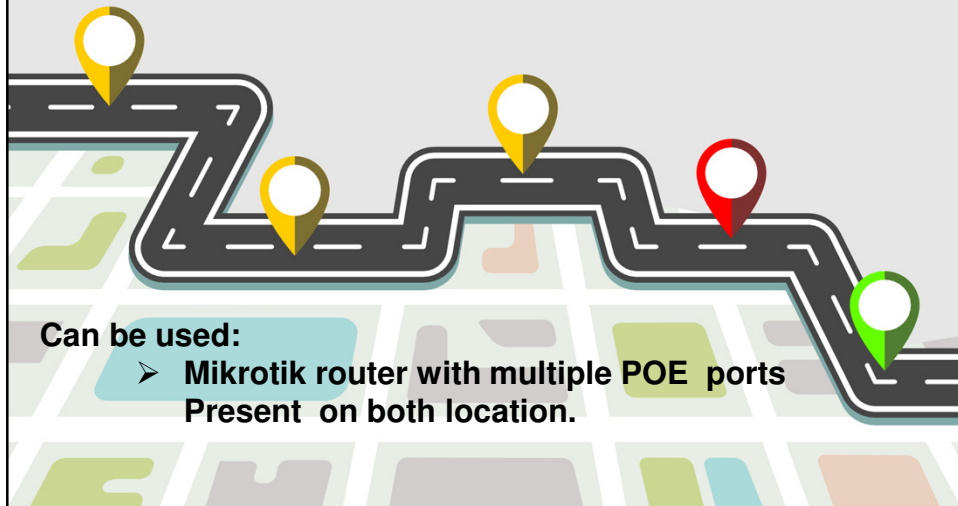
## Fail-over 3



## Configuration benefits?

- Having available backup without having wireless interference.
- Avoid wireless down time.
- Automated Wireless Backup.

## Wireless Point to Point setup with Net-watch

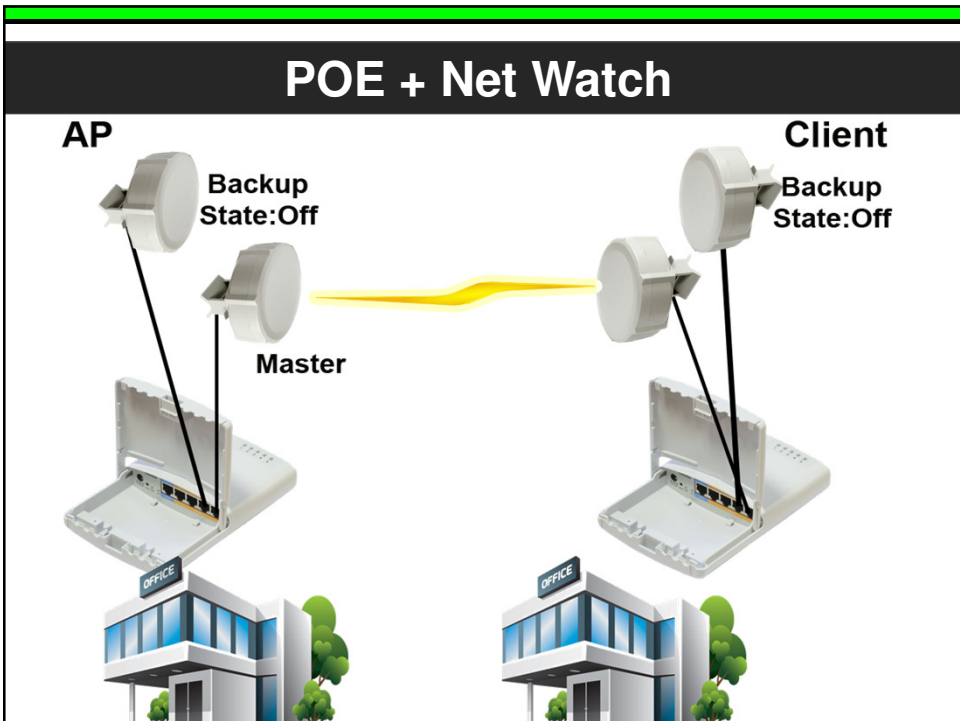
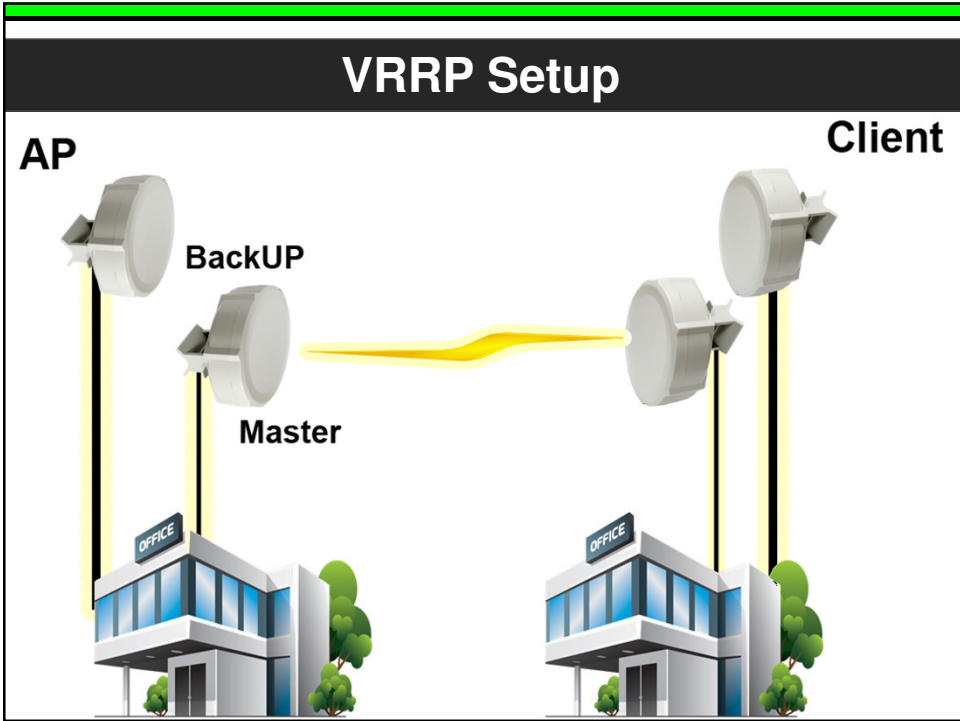


## Configuration benefits?

- Having available backup without having wireless interference.
- Avoid wireless down time.
- Automated Wireless Backup.
- Save the backup router from wear and tear of circuit components.
- Power saving for the backup on off state.

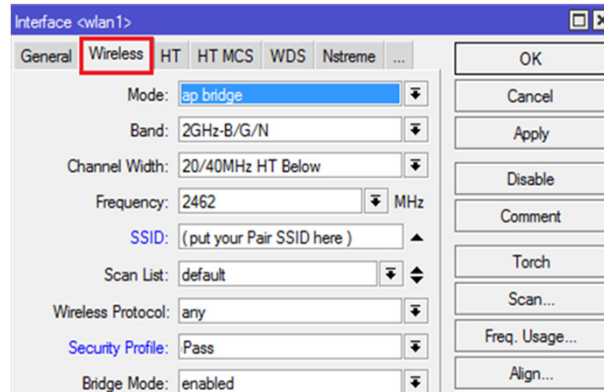






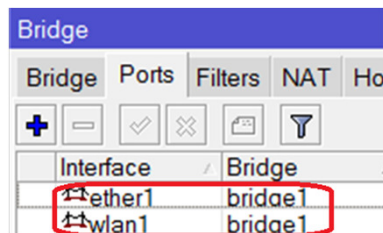
## Configuration on AP Side

- Configure Wireless as (AP-Bridge or Bridge)



## Configuration on AP Side

- Bridge ports (Ether1, Wlan1)



## Additional configuration on AP SXT's

### Master

- Router IP

Address List

+ - ✓ ✕ [icon] [icon] Find

Address	Network	Interface
192.168.100.5/24	192.168.100.0	LOCAL

Address <192.168.100.5/24>

Address: 192.168.100.5/24

Network: 192.168.100.0 ▲

Interface: LOCAL ▼

## Additional configuration on AP SXT's

### Backup

- Router IP

Address List

+ - ✓ ✕ [icon] [icon] Fin

Address	Network	Interface
192.168.100.10/24	192.168.100.0	LOCAL

Address <192.168.100.10/24>

Address: 192.168.100.10/24

Network: 192.168.100.0 ▲

Interface: LOCAL ▼

# POE-Router (RB750P) Config

## Bridge

Interface	Bridge
ether1	LOCAL
ether2	LOCAL
ether3	LOCAL
ether4-Backup	LOCAL
ether5-Main	LOCAL

## Router IP

Address	Network	Interface
192.168.100.15/24	192.168.100.0	LOCAL

Address <192.168.100.15/24>

Address: 192.168.100.15/24

Network: 192.168.100.0

Interface: LOCAL

# POE-Router (RB750P) Config

## Netwatch

Host	Interval	Timeout	Status	Since
192.168.100.5	00:00:15	1000	up	Jan/02/1970 00:02:30

Host: 192.168.100.5 (AP-Main's IP)

Interval: 00:00:15

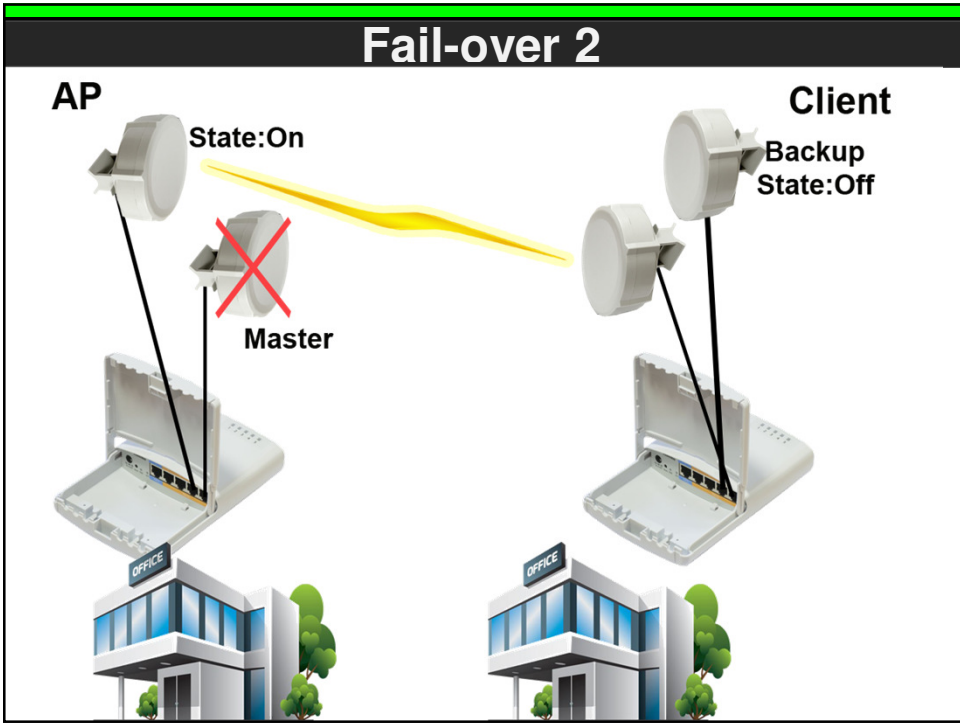
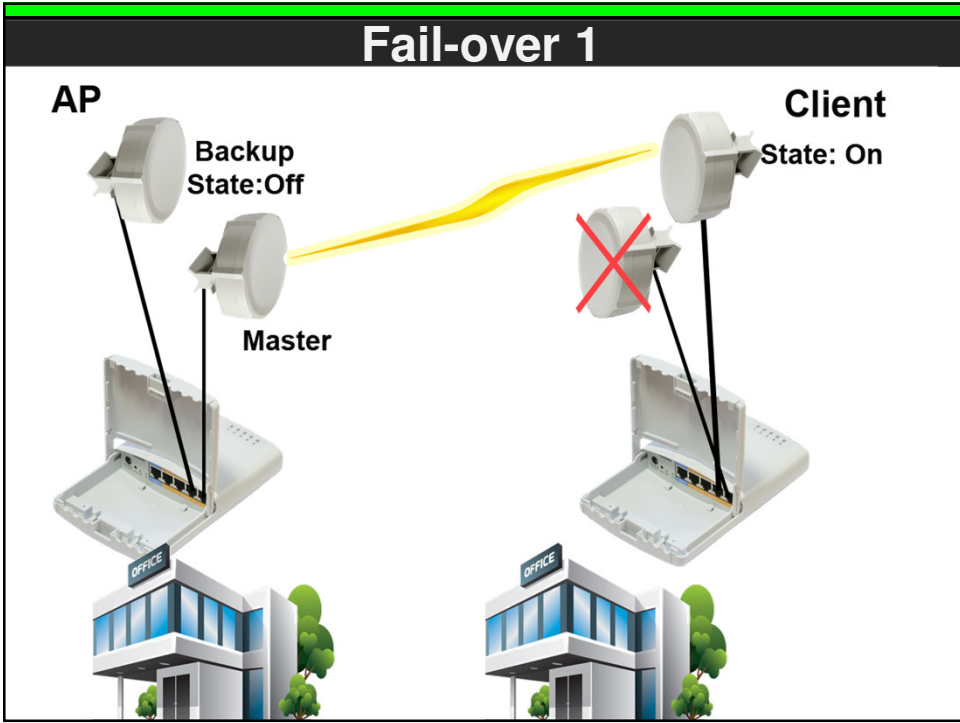
Timeout: 1000 ms

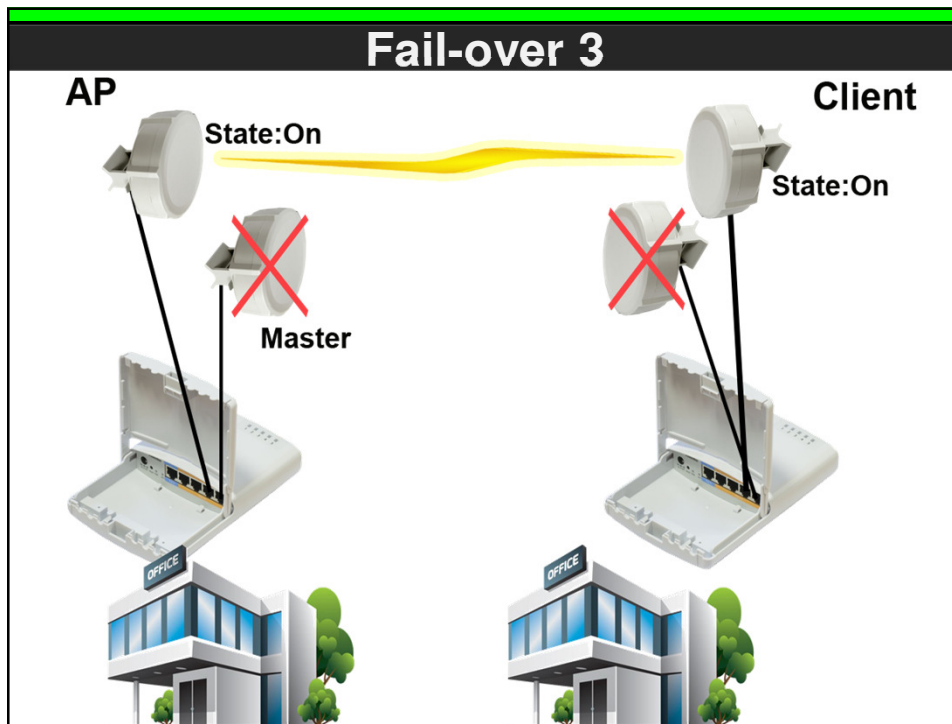
Status: up

Since: Jan/02/1970 00:02:30

On Up: interface ethernet poe set ether4-Backup poe-out=off

On Down: interface ethernet poe set ether4-Backup poe-out=forced-on





## Configuration benefits?

- Having available backup without having wireless interference.
- Avoid wireless down time.
- Automated Wireless Backup.
- Save the backup router from wear and tear of circuit components.
- Power saving for the backup on off state.



## Conclusions

- MikroTik's Wireless can be combined with different feature's
- MikroTik's multiple features compact in a single router board is a great advantage.
- As long as you doesn't violate any networking rule, your creativity to can create new solutions using combined MikroTik features.



## Thank You



# The End

- Questions and Answers

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