

Best Network Practice with Dual Nstreme

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Introduction

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Question

- How many have used Nstreme Dual?

The Present Situation

- Customer Demand more bandwidth
- High reliability network needed
- Low latency

Why Nstreme Dual

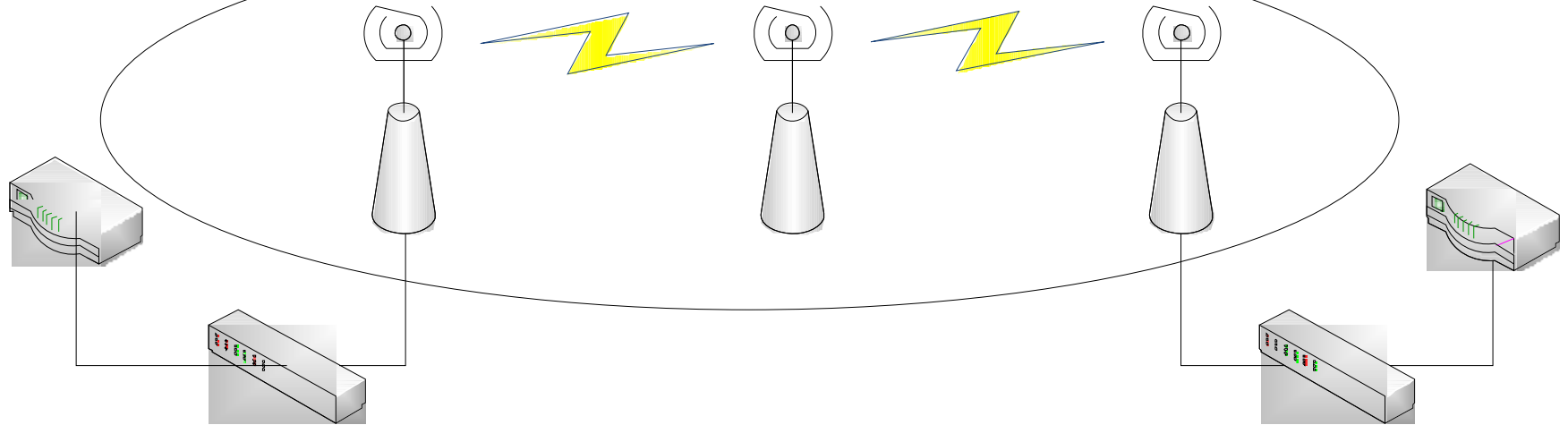
- Bridging environment
- High Reliability
- High Capacity
- Low Latency
- Licensed Free Frequency

How To Setup Nstreme Dual

- http://wiki.mikrotik.com/wiki/Nstreme_dual_Step-by-Step
- Horizontal and Vertical Combination
- 2.4 and 5.8 Combination
- RB433 (minimum)

Network Example

FULL BRIDGE
NSTREME DUAL



Tx: 17.6 Mbps
 Rx: 944.0 kbps
 Tx Packet: 1 662 p/s
 Rx Packet: 725 p/s

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 Rx: 944.0 kbps

Tx Packet: 1 662 p/s
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disabled running slave

- Cancel
- Apply
- Disable
- Comment
- Copy
- Remove
- Torch
- Reset Counters

Protocol: udp tcp

Local UDP Tx Size: 1500
 Remote UDP Tx Size: 1500

Direction: send

Local Tx Speed: 15000000 bps
 Remote Tx Speed: 15000000 bps

User: [REDACTED]
 Password: [REDACTED]

Tx/Rx 10s Average: 14.8 Mbps/0 bps
 Tx/Rx Average: 14.8 Mbps/0 bps

Tx: 15.0 Mbps
 Rx:

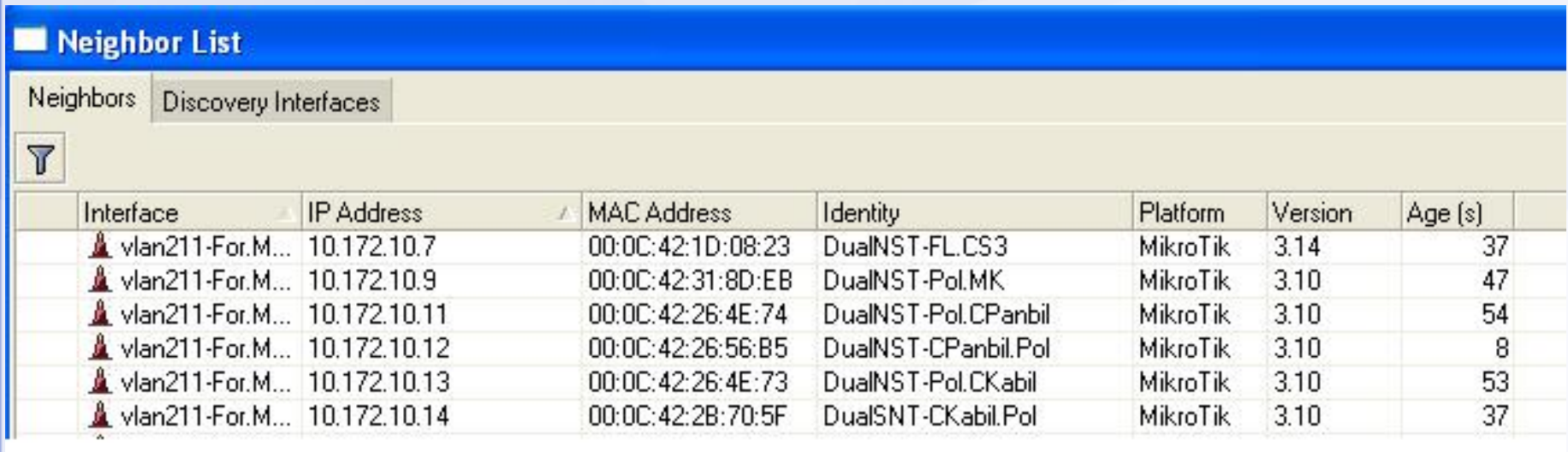
stopped

- Stop
- Close







85	10.172.10.105	4ms	50	64
86	10.172.10.105	2ms	50	64
87	10.172.10.105	4ms	50	64
88	10.172.10.105	4ms	50	64
89	10.172.10.105	28ms	50	64
90	10.172.10.105	2ms	50	64
91	10.172.10.105	3ms	50	64
92	10.172.10.105	2ms	50	64
93	10.172.10.105	3ms	50	64
94	10.172.10.105	1ms	50	64
95	10.172.10.105	1ms	50	64
96	10.172.10.105	1ms	50	64

How to Monitor NstremeDual

- 1 vlan for all NstremeDual



The screenshot displays a network management interface with a blue header bar labeled "Neighbor List". Below the header, there are two tabs: "Neighbors" and "Discovery Interfaces". A filter icon is visible on the left. The main content is a table with the following columns: Interface, IP Address, MAC Address, Identity, Platform, Version, and Age (s). The table lists six entries, all with the interface "vlan211-For.M...".

Interface	IP Address	MAC Address	Identity	Platform	Version	Age (s)
 vlan211-For.M...	10.172.10.7	00:0C:42:1D:08:23	DualNST-FL.CS3	MikroTik	3.14	37
 vlan211-For.M...	10.172.10.9	00:0C:42:31:8D:EB	DualNST-Pol.MK	MikroTik	3.10	47
 vlan211-For.M...	10.172.10.11	00:0C:42:26:4E:74	DualNST-Pol.CPanbil	MikroTik	3.10	54
 vlan211-For.M...	10.172.10.12	00:0C:42:26:56:B5	DualNST-CPanbil.Pol	MikroTik	3.10	8
 vlan211-For.M...	10.172.10.13	00:0C:42:26:4E:73	DualNST-Pol.CKabil	MikroTik	3.10	53
 vlan211-For.M...	10.172.10.14	00:0C:42:2B:70:5F	DualSNT-CKabil.Pol	MikroTik	3.10	37

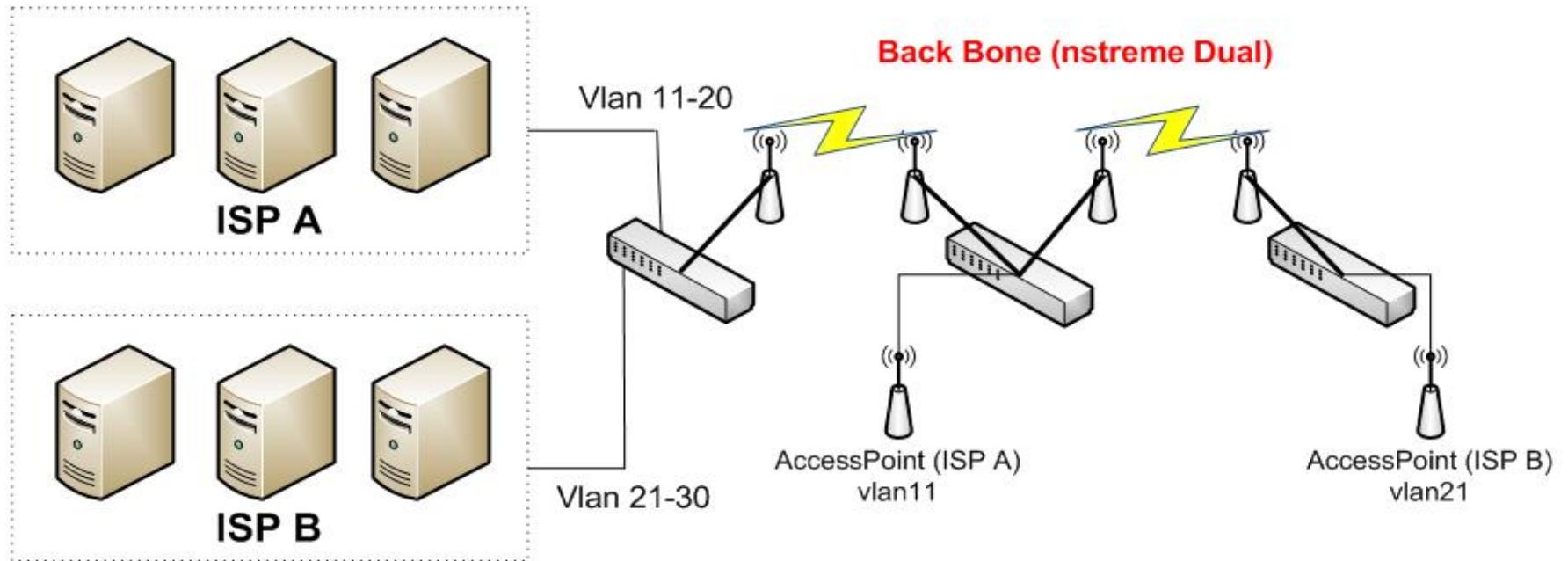
WISP Problem

- Interference
 - Backbone and AP using the same frequencies
- High Investment
 - 1 tower to server 1 client
- Low utilization
 - 20-30% of backbone utilization

New Concept

- Shared backbone concept (high utilization)
 - Up to 60-80%
- Fully redundant using STP (high availability)
 - High Reliability

New Concept



Thank You