The Wireless Mesh

Illustrated Guide

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Wireless Mesh

- Mesh Networking Extends the Potential of Wireless Networking
- How does Mesh Networking Work?
- What are the Benefits?

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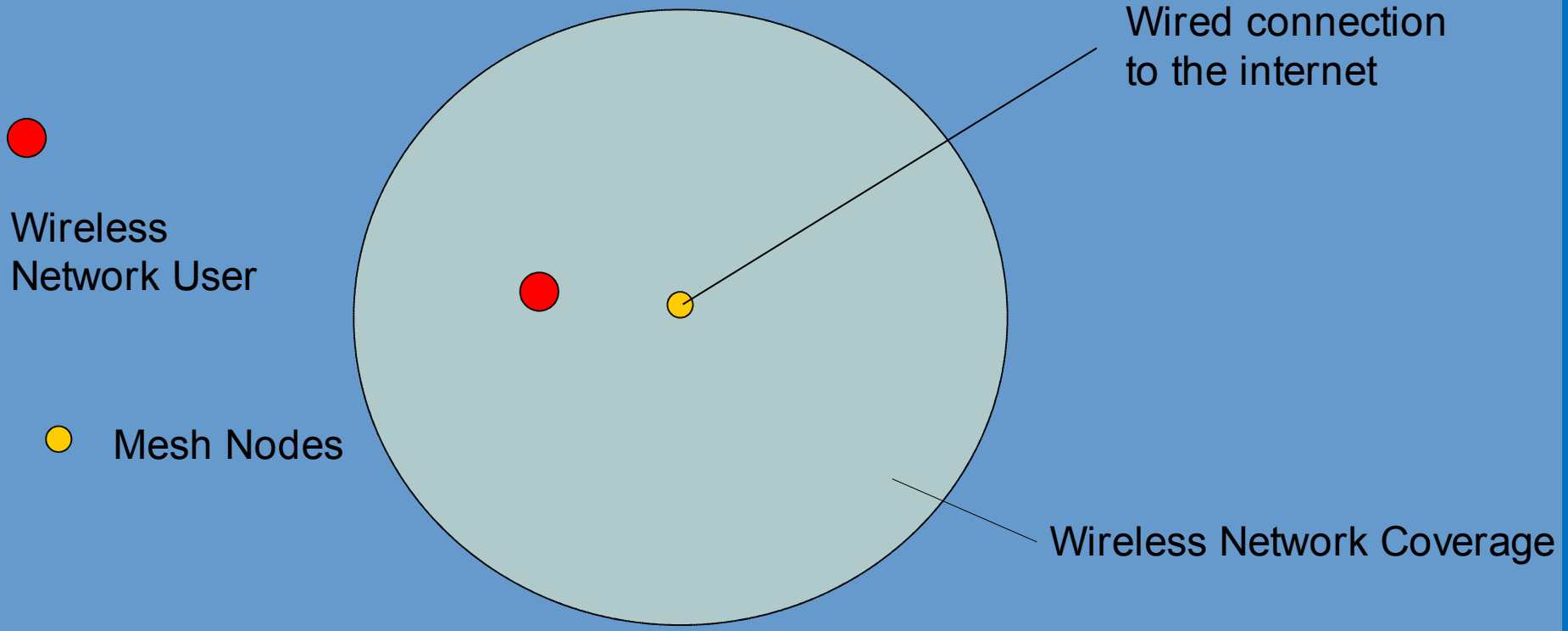
Starting Point

- A single wired node gives access to local wireless users



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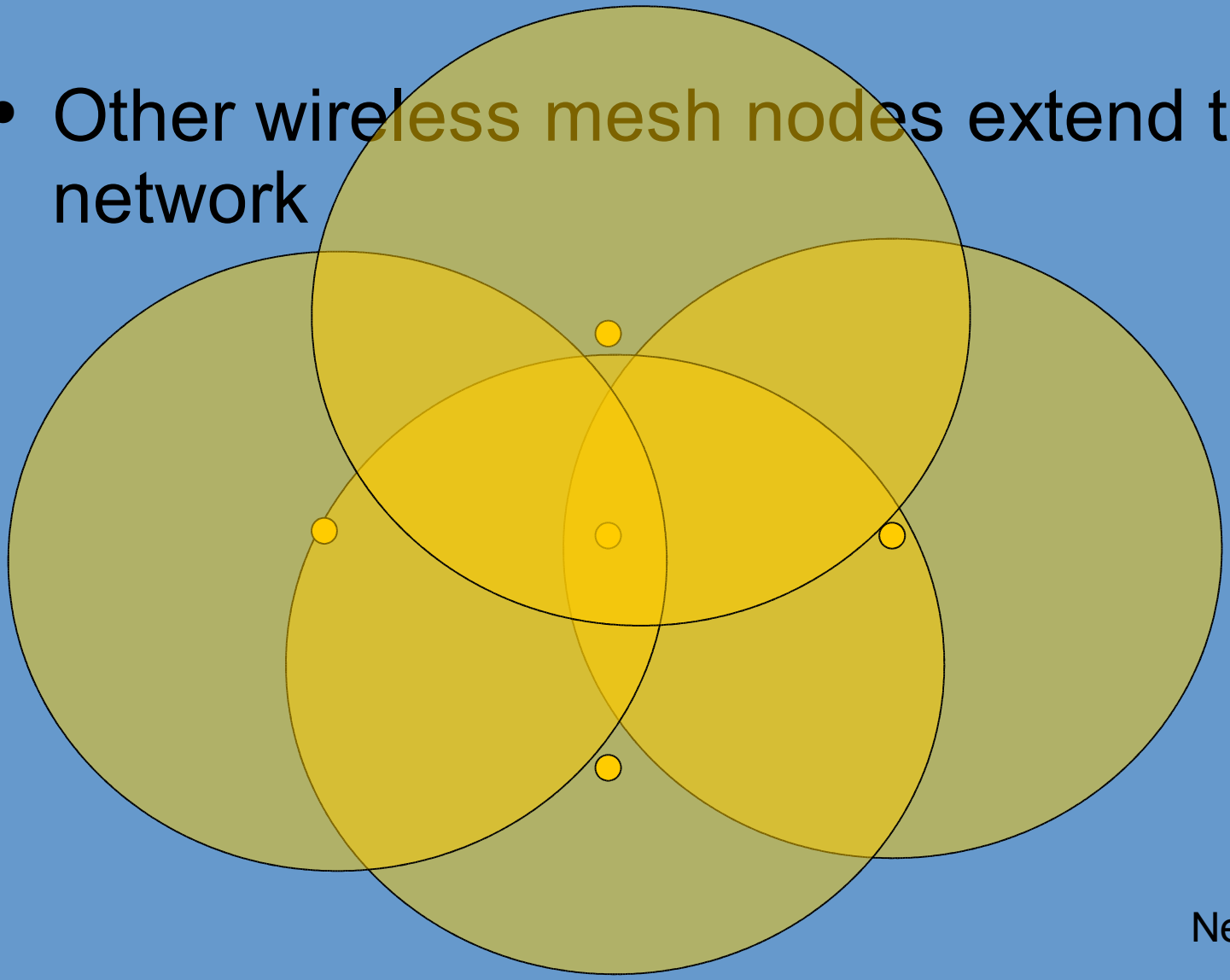
Growing the Mesh

- Other wireless mesh nodes extend the network



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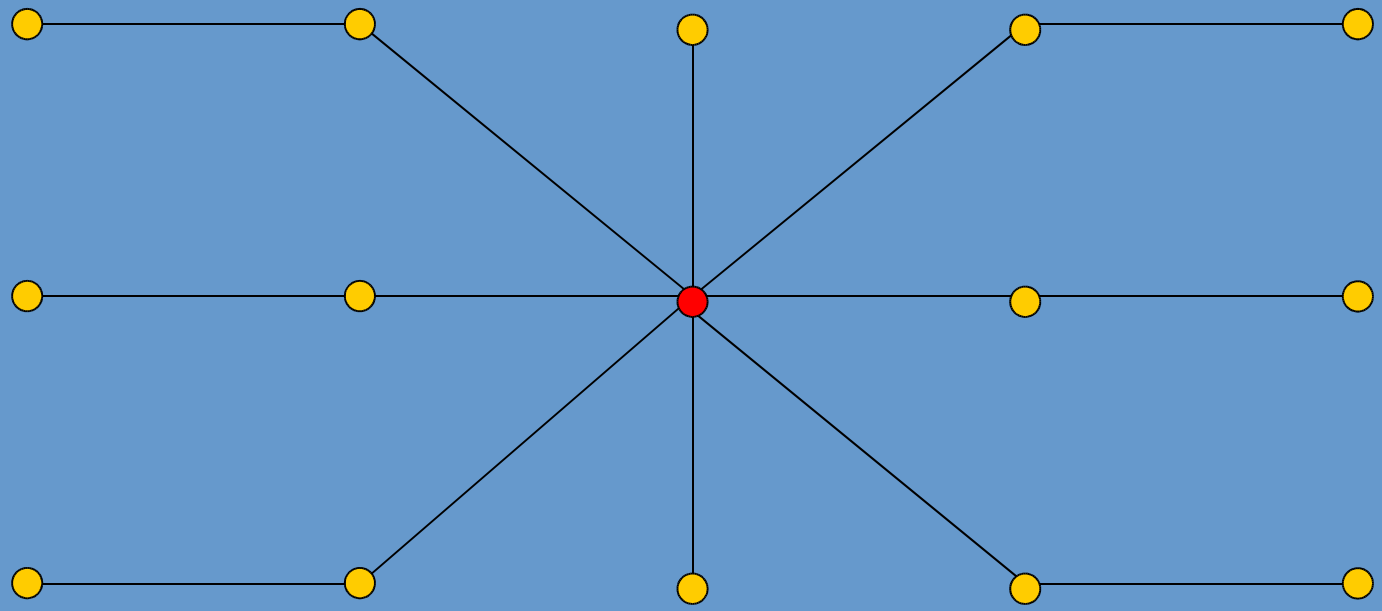
Automatic Routing

- Each node finds routes through the mesh



Internet Gateway

Wireless Mesh Node

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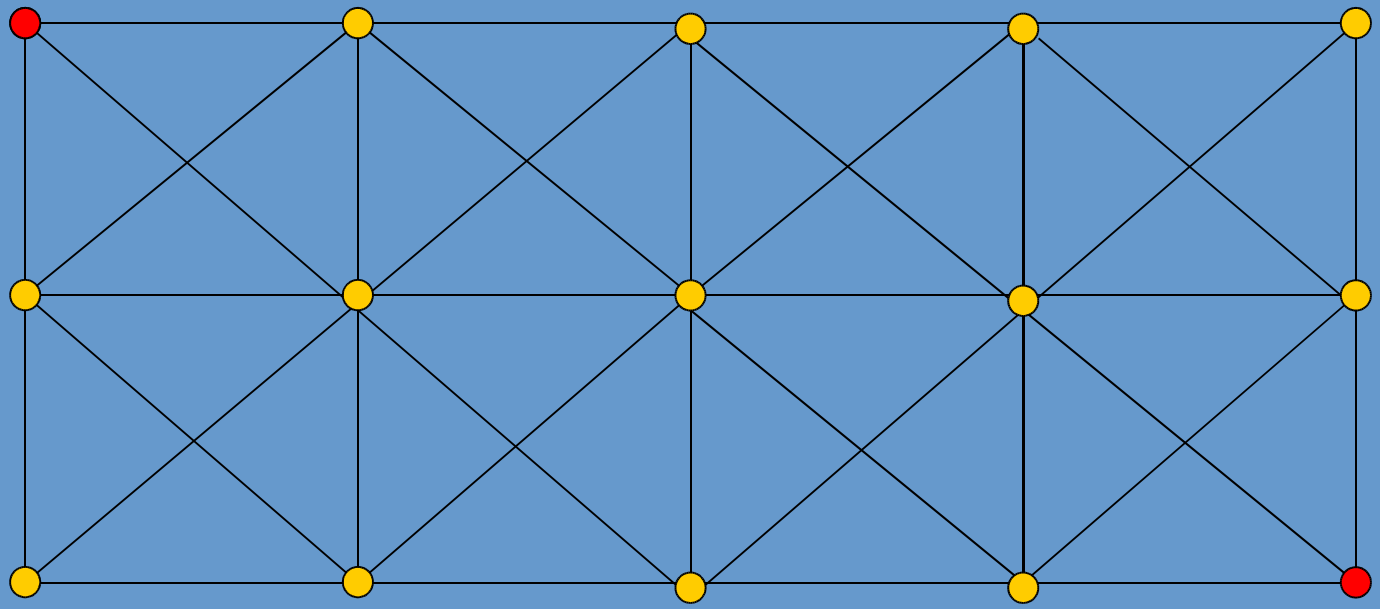
Multiple Gateways

- Automatically adjusting as the mesh grows



Internet Gateway

Wireless Mesh Node

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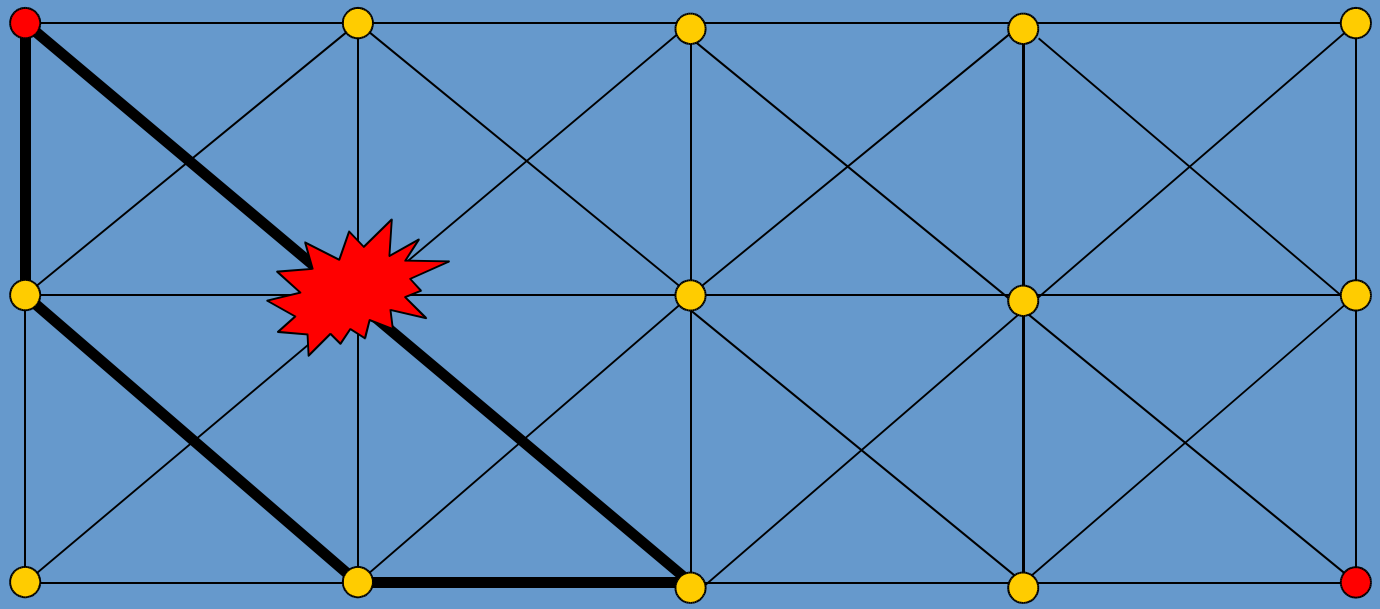
Mesh Resilience

- Many alternative nodes and routes



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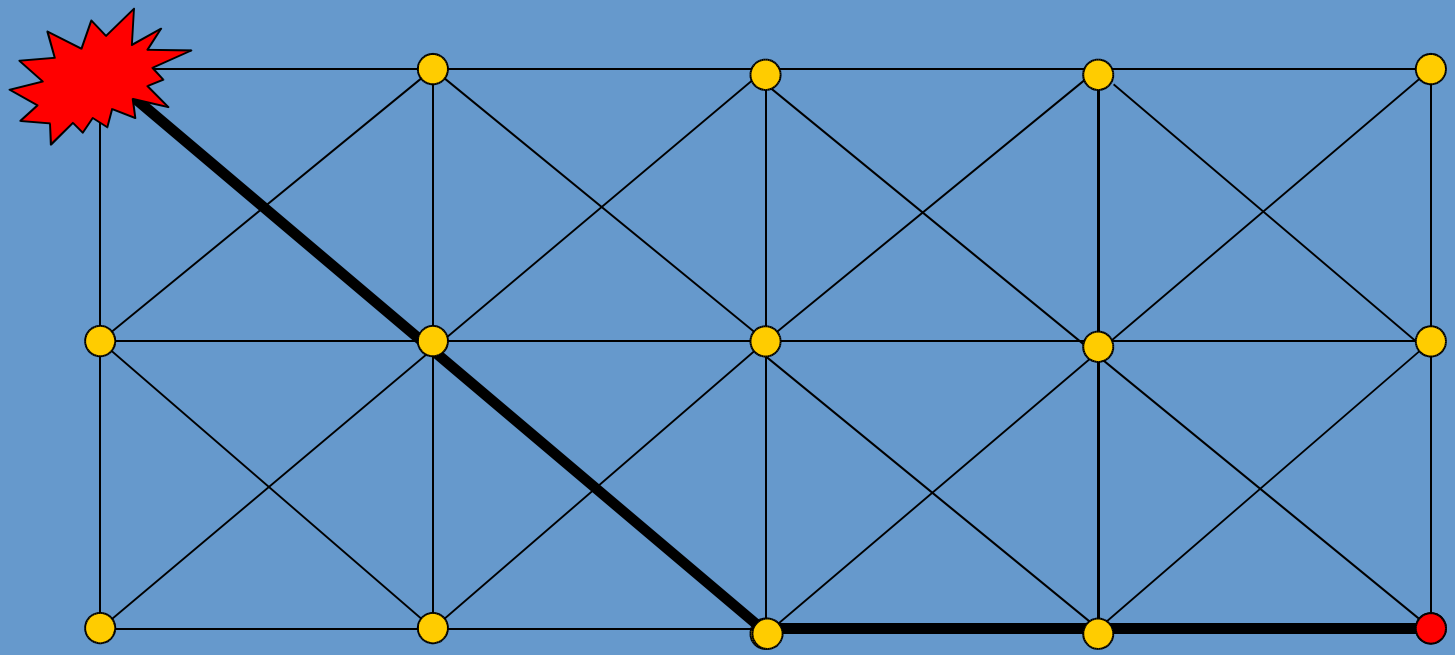
Mesh Resilience

- Use alternative Gateways



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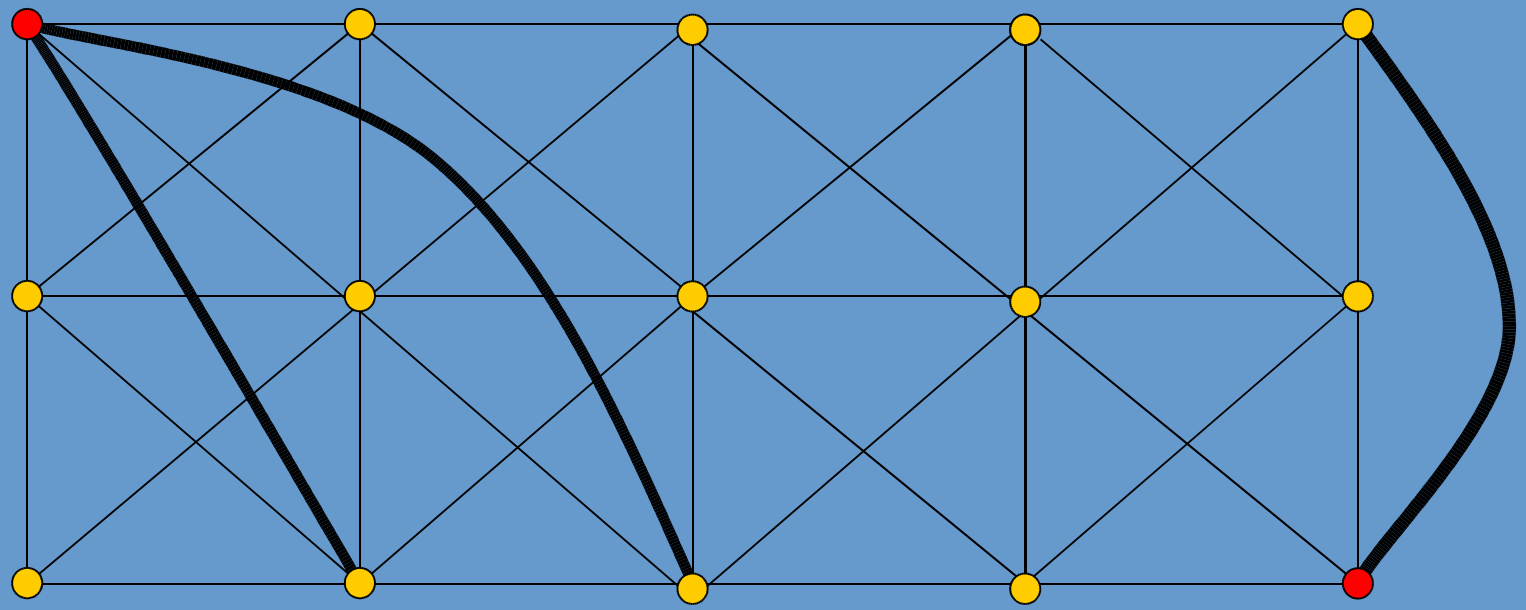
VPN Tunnels through the mesh

- Simplified, encrypted communication



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Security

- Each Node has a Digital Certificate
- Signed by WIANA
- Certificate Authenticates Identity
- The Mesh is Cryptographically Sealed
- 2048 Bit PPK Encryption on the Mesh

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End User Authentication

- Mesh Owner Defines Access Policy
- 4 Levels of User
- Hot Spot Ticket Options
- Remote Authentication Server
- Linked to Bandwidth Management

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Bandwidth Management

- Allows Fair Access to Broadband
- Bandwidth Quota Monitor
- 4 Levels of Bandwidth Rights
- Dynamic Priority Allocation
- Capping and Prioritisation

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Remote Management

Settings are managed on the web

Each node checks in for updates