ProximUnify
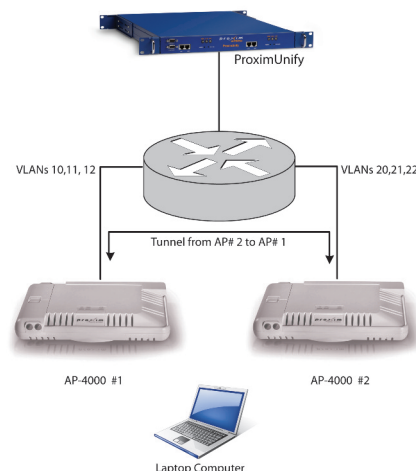
ORiNOCO Wireless LAN

ORiNOCO Wireless LAN – Proxim Wireless' industry-leading ORiNOCO® wireless LAN products deliver enterprise-class 802.11 a/b/g functionality, standards-based networking, capacity, security and Quality of Service.

This portfolio includes:

- ORiNOCO Client Products – Ultimate flexibility to connect to any Wi-Fi® network

- ORiNOCO Access Points – Enterprise-class APs with QoS support and mesh capabilities

- ORiNOCO Wi-Fi Mesh – Outdoor and indoor Wi-Fi mesh for service providers and municipalities

Proxim Wireless is a global provider of end-to-end broadband wireless systems that deliver the quadruple play. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

The ProximUnify wireless controller provides widespread mobility, high reliability, and scalability throughout both indoor and outdoor wireless networks. In conjunction with ORiNOCO access points, the ProximUnify wireless controller enables mobility of voice, video and data applications beyond the four walls of the enterprise.

Widespread Mobility for Voice, Video and Data

- With ProximUnify, voice, video and data mobility are no longer confined to the four walls of the enterprise. ProximUnify leverages Proxim's end-to-end wireless expertise to extend high-performance mobility across both indoor and outdoor environments, enabling true widespread mobility.
- WPA2 with pre-authentication enables high-speed roaming for fast, smooth handoffs between access points for latency-sensitive applications such as voice over Wi-Fi.
- VLAN roaming enables seamless connectivity across large networks, including indoor to outdoor mobility.
- Support for the Wi-Fi Multimedia (WMM) specification enables wireless QoS for the prioritization of voice or other high-priority traffic.

High Reliability for Consistent Roaming

ProximUnify enables VLAN roaming without a single point of failure with failover capabilities including:

- Redundant 10/100 Ethernet ports for automatic failover of connection to the Ethernet network, in case other equipment in the network fails.
- Redundant modules for automatic failover of connection, in case a ProximUnify module fails.
- Master failover ensures that wireless domain moves to a backup ProximUnify should the master ProximUnify fail.

Secure Scalability for Cost-Effective Expansion

ProximUnify minimizes network traffic and can support more APs than competitively-priced appliances, enabling the cost-effective extension of wireless mobility.

- Does not require restructuring of existing Ethernet network.
- Distributed tunneling creates VLAN tunnels only as necessary, eliminating traffic duplication and network bottlenecks.
- By eliminating the need for all wireless traffic to be sent to a central appliance, ProximUnify enables more flexible networks.
- Support for up to 4,096 APs per wireless domain (with redundancy) enables extremely cost-effective scalability of the network, both indoors and outdoors.
- Encryption/authentication ensures consistent mobile security, even as clients roam from subnet to subnet.

How it Works

ProximUnify works with ORiNOCO access points to make wireless clients appear as though they never leave a VLAN, even if they roam to an AP that is not in some way connected to that VLAN. ProximUnify keeps track of which clients are associated with each access point and shares that information with other access points to enable them to set up tunnels between each other as required to enable VLAN roaming.

For example, this diagram shows a wireless client roaming from AP #1 to AP #2. When the client associates to AP #2, AP #2 tells the ProximUnify about the association. If the VLAN to which the wireless client was connected before it roamed is not available to AP #2, then the ProximUnify instructs AP #2 and AP #1 to establish a tunnel between each other. All traffic to the client would be sent across the tunnel from AP #1 to AP #2, and all traffic from the client would be tunneled from AP #2 to AP #1.

ProximUnify
Technical Specifications

PROXIMUNIFY

INTERFACE	
WIRED ETHERNET	4 x 10/100 base-T Ethernet (RJ-45)
OUT-OF-BAND CONFIG	2 x RS-232 (DB-9 male)
INTEROPERABILITY	ProximUnify supports ORiNOCO APs using firmware version 4.0
HARDWARE	
DIMENSIONS	1.692 x 14.685 x 20.157 in (43 x 373 x 512 mm)
WEIGHT	7.7 lb (3.5 kg)
LEDS	Power / Status LED 1 Power / Status LED 2 Ethernet Activity Port 1 Ethernet Activity Port 2 Ethernet Activity Port 3 Ethernet Activity Port 4
ENVIRONMENTAL SPECS	
TEMPERATURE	
OPERATING STORAGE	0° to +45°C -10° to +70°C
HUMIDITY	
OPERATING STORAGE	10-85% (Non-condensing) 0-95% (Non-condensing)
POWER SUPPLY	
INPUT POWER	110-240V AC 50/60Hz
SAFETY	CE
EMISSIONS	FCC Class B
SUPPORT AND RELIABILITY	
MTBF	100,000 hours
WARRANTY	1 year parts and labor
SUPPORT	30 Days Phone Support - M-F 8X5*
SCALABILITY	
APS PER PXU	
W/ REDUNDANCY W/O REDUNDANCY	512 1024
PXU PER WIRELESS DOMAIN	16
PACKAGE CONTENTS	• ProximUnify • Rack mounting kit • Quick Installation Guide • CD with documentation and regulatory guide • Power cord

*Extend warranty/support is available, please contact your Proxim representative

APPLICATIONS

- **Enterprises**
  Converge voice, video and data on a single network with low latency roaming

- **Municipal/Public Safety Networks**
  Achieve seamless roaming across city networks

- **Metropolitan Area Networks**
  Use Voice over Wi-Fi for instant communication anywhere

- **Hospitals and clinics**
  Secure and reliable backhaul of Wi-Fi Mesh cells

- **Local, state and federal agencies**
  Fast access to information to serve constituencies better

- **Universities**
  Deploy wireless LANs across the campus without complex VLAN assignment

- **Wireless Service Providers**
  Extend specific security and billing services to the whole network.

Proxim Wireless Corporation
www.proxim.com