



ORiNOCO Smart Wireless Controller

Enable Seamless Mobility for ORiNOCO APs



APPLICATIONS

- **Enterprises**
Converge voice and data on a single network with low latency roaming
- **Municipal/Public safety networks**
Achieve seamless roaming across city networks
- **Hospitals and clinics**
Use Voice over WI-FI for instant communication anywhere
- **Local, state and federal agencies**
Fast access to information to serve constituencies better
- **Universities**
Deploy wireless LANs across the campus without complex VLAN assignment

Seamless Mobility Enables New Applications

The ORiNOCO Smart Wireless Controller enables seamless mobility for Wi-Fi applications of all types – voice, video and mission critical data applications.

- No restructuring of existing Ethernet network
- Wi-Fi clients can roam across subnets with no interruption
- Highly latency sensitive applications such as Voice over Wi-Fi calls seamlessly roam across subnets

Network Flexibility Without Bottlenecks

With ORiNOCO, wireless LAN intelligence is distributed appropriately to efficiently use network resources. ORiNOCO Access Points deliver intelligence at the edge of your network for authentication, authorization and traffic prioritization. The Smart Wireless Controller provides centralized management of tunnel set up between APs on an as needed basis.

- Eliminates bottlenecks caused by tunneling all traffic through a central controller

- Deploy Controller anywhere in the network – at the core, edge or anywhere in between
- Utilize up to 128 APs per controller without redundancy, or 64 APs per controller with redundancy

Extend Your Existing Network

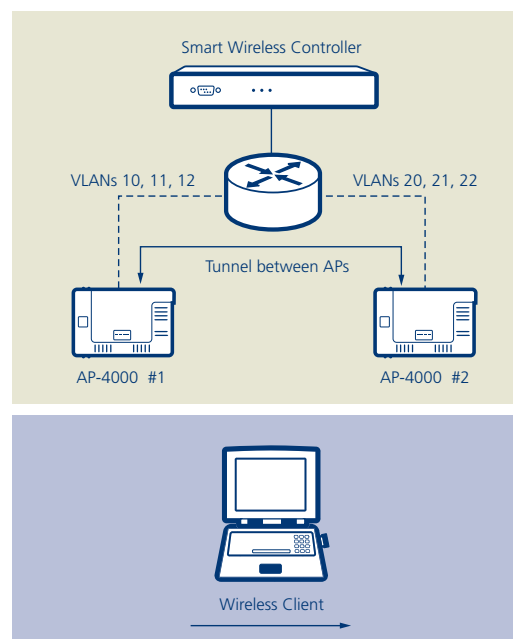
Deploy APs exactly where you need them without rearchitecting your network.

- Eliminate complicated VLAN configuration
- Scalable from branch offices to large enterprises
- Maintain investment in existing layer 2/3 switches
- Upgrade existing ORiNOCO wireless LAN installations

Ensure High Reliability with Redundancy

Mission critical applications like voice over Wi-Fi require the highest availability.

- Second Ethernet port for hot failover
- Automatic reconnection of ORiNOCO APs to secondary Smart Wireless Controller



How it works

The Smart Wireless Controller works with ORiNOCO AP-4000 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.

The Smart Wireless Controller keeps track of which clients are associated with each access point and shares that information with the 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 Smart Wireless Controller about the association. If the VLAN to which the wireless client was connected before it roamed is not available to AP #2, then the Smart Wireless Controller 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.

ORiNOCO Smart Wireless Controller Specifications

INTERFACE

Wired Ethernet	2 x 10/100 base-T Ethernet (RJ-45)
Out-of-band config	RS-232 (DB-9 male)

INTEROPERABILITY

The Smart Wireless Controller supports the AP-4000 using firmware version 2.7

HARDWARE

Dimensions	25.73cm x 14.33cm x 4.34cm (10.13in x 5.64in x 1.71in)
Weight	1.2kg (2.6lb)
Input Power	110-240V AC 60Hz
LEDs	Power / Status Ethernet Activity Port 1 Ethernet Activity Port 2

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating: 0°C-45°C Storage: -10°C-70°C
Humidity	Operating: 10-85% (Non-condensing) Storage: 0-95% (Non-condensing)

POWER SUPPLY

Input Power	110-240V AC 60Hz
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SAFETY AND EMISSIONS

Safety	UL, CE
Emissions	FCC Class B

SUPPORT AND RELIABILITY

MTBF	100,000 hours
Warranty	1 year parts and labor
Support	Authorized Partners: unlimited 24x7 toll-free support All others: 24x7 toll-free support for the first 30 days

SCALABILITY

APs per Controller (with redundancy)	64
APs per Controller (without redundancy)	128
Controllers per system	32*

PACKAGE CONTENTS

- The Smart Wireless Controller
- Rack Mount Ears and associated hardware
- Quick Installation Guide
- CD with documentation and regulatory guide
- Power cord

* This number may be increased in the future without hardware modification.

