

Wireless Controllers

High-performance, Enterprise-class WLAN Controllers



Scalable to over 1000 Access Points per wireless controller with unified management of 802.11n and 802.11a/b/g Access Points

Seamless roaming with centralized and distributed data forwarding

Virtualized management and control planes for cloud deployments

High-availability architecture for real-time voice/video/data applications

Lifetime warranty (select controllers) to minimize the total cost of ownership

Product Overview

The award-winning Enterasys Wireless Controller family provides a scalable range of solutions that are ideal for managed WLAN deployments supporting demanding voice/video/data applications. Our Wireless Controllers are simple to deploy and manage, yet provide advanced functionality to allow organizations to define how wireless voice/video/data traffic is processed without architectural constraints and in accordance with the business needs. Select wireless controllers come with a lifetime warranty and phone support as well as free software maintenance releases for 1 year to protect your wireless networking investment and minimize the total cost of ownership.

The Enterasys Wireless Controller portfolio includes:

- The C25 supporting up to 96 Access Points (APs)
- The V2110 supporting up to 496 APs
- The C4110 supporting up to 500 APs
- The C5110 supporting up to 1050 APs

The V2110 is available as a VMware appliance for easy deployment in cloud environments. Scalable up to 496 APs, the V2110 extends all the cost savings, hardware independence, and resiliency benefits of data center virtualization to the wireless infrastructure.

Enterasys Wireless Controllers provide role-based management for users, devices, and applications with individualized services including Quality of Service (QoS), call admission control, secure access policies, network access control (NAC), captive portals, rate limiting, multicast, filtering, and traffic forwarding. These services are enabled by the unique and flexible Enterasys Wireless Virtual Network Service (VNS) architecture and easily provisioned and managed by an intuitive web interface.

Each controller supports mixed mode deployments of 802.11n and 802.11a/b/g APs along with the ability to seamlessly roam between wireless controllers and access points, providing scalability and ease of deployment. For large deployments, Enterasys Wireless further simplifies the management of thousands of APs by creating mobility zones that extend the VNS properties across multiple wireless controllers. Mobility zones maintain the VNS definitions and the individual policies throughout the entire mobility zone, ensuring that policies follow the user regardless of physical location.

Benefits

Business Alignment

- Support for demanding voice/video/data applications to enhance mobile worker productivity and convenience
- Role-based grouping of users, devices, and applications to deliver priority, QoS, and security in accordance with business needs
- Integrated management, security, and QoS features reduce operating cost and ensure a consistent user experience regardless of location
- Key element of mobility solutions that enable VoWLAN and dual-mode devices

Operational Efficiency

- Centralized visibility and control to simplify management, accelerate problem resolution, optimize network utilization, and automate response to wireless threats
- Integrated wired and wireless management, and role-based access control greatly reduce administration time and effort
- Adaptive architecture reduces complexity and optimizes information flow for each application

Security

- Authentication and authorization functions include role-based access control using 802.1X, MAC authentication, and captive portal
- Standards-based encryption (WEP, TKIP, WPA, WPA2, WPA-PSK, WPA2-PSK, and AES)
- External captive portal allows full customization for guest access
- Integrated wired and wireless intrusion prevention
- Denial of Service (DoS) protection for management, control, and data traffic

Support and Service

- Industry-leading customer satisfaction and first call resolution rates
- Personalized services, including site surveys, network design, installation, and training
- Lifetime warranty for select wireless controllers

There is nothing more important than our customers.

Enterasys Wireless provides an easy, low cost way to deploy 802.11n solutions, delivering cost-effective pricing, wired/wireless integration, and low TCO while openly supporting a broad range of mobile voice, video, and location-based applications to drive enterprise productivity and reduce the overall cost of mobility. With the ability to deliver both centralized and distributed traffic forwarding by application, Enterasys Wireless Controllers enable a flexible, cost-effective path to deploying 802.11n for the enterprise. Backed by industry-leading global support and services, Enterasys Wireless solutions enable customers to leverage existing investments and avoid forklift upgrades.

Virtual Network Service (VNS) - An Adaptive WLAN Architecture

Most WLAN solutions force network administrators to choose between a centralized or distributed architecture. A significant advantage of Enterasys Wireless Controllers is that they can support both deployment models simultaneously, offering significant flexibility benefits over other solutions. Network administrators can select how traffic will be handled on a per-SSID basis, without any restrictions, so that the wireless LAN infrastructure can adapt to business requirements and applications.

A centralized architecture requires all traffic to be backhauled to a centralized controller. With the higher data rates of 802.11n APs, traffic loads on the wired network can be much greater than those created by legacy 802.11a/b/g APs. Depending on the size of the WLAN deployment and how much data is forwarded to the centralized controller, significant congestion may result.

A fully distributed deployment eliminates backhauling traffic to a wireless controller but increases the processing complexity for real-time mobile applications that require seamless cross-subnet roaming (e.g. VoWLAN). This can force IT managers to either create a large broadcast domain or apply many VLANs.

Enterasys Wireless Virtual Network Services control traffic flow by allowing traffic to be backhauled to a wireless controller or switched locally at the AP on a per SSID basis. With local switching, the AP is still managed centrally by the wireless controller, but data is not backhauled to the wireless controller. This improves responsiveness and ensures that traffic does not unnecessarily traverse costly WANs or contribute to bottlenecks at aggregating switches. A VNS also provides role-based policies providing security, NAC, mobility, and QoS priority that can be implemented on a per user and per application basis. The table below highlights this capability:

SSID	User Type	Security Role	Topology (data path)
Single	Multiple	Multiple	Single
Single	Multiple	Single	Multiple
Single	Multiple	Multiple	Multiple
Multiple	Multiple	Multiple	Single
Multiple	Multiple	Single	Multiple
Multiple	Multiple	Multiple	Multiple

Integrated Management and Control across Wireless and Wired Networks

Web-based Centralized Management via Wireless Assistant

The Wireless Assistant provides network administrators with a centralized web-based interface designed to easily manage both infrastructure and services. Hosted on the wireless controller, this interface allows network administrators to separately configure, enable, or disable each AP or group of APs. The wireless controller consolidates data received from across the network to provide meaningful statistics in easy-to-read reports. Additionally, a number of standards-based management tools are available to facilitate integration of the WLAN infrastructure with enterprise management applications. For large networks with multiple wireless controllers the optional Enterasys Wireless Management Suite (WMS) can be used to collect and manage data for a centralized view of the entire WLAN.

Multi-Controller Management

Enterasys Wireless Management Suite provides centralized management for the Enterasys Wireless portfolio, consolidating management information from across the entire WLAN for a global network perspective. The solution is enhanced by the addition of the WMS Intrusion Prevention System (WIPS) option which provides sophisticated wireless intrusion prevention and location assessment capabilities. Wired and wireless network integration is further enhanced by the visibility of all the wireless elements through the Enterasys Network Management Suite (NMS). Integration between NMS and the Enterasys Wireless portfolio provides end-to-end visibility of wireless Access Points, Controllers, and wireless clients from the NMS Console. The integration delivers improved network management efficiency and wired/wireless infrastructure topology mapping and visibility for network administrators. Further integration with NMS Inventory Manager effectively centralizes distribution of software and tracking of configuration changes.

Integrated Security

Wireless Management Suite WIPS enhances security with embedded wireless intrusion prevention and location-based services. When deployed in conjunction with the Enterasys Intrusion Prevention System (IPS), full packet inspection, adaptive signature pattern matching, protocol analysis, and behavioral anomaly detection are delivered for both wired and wireless users. Further, Enterasys Network Access Control (NAC) identity-based policy privileges are unified across the wired and wireless infrastructure to deliver role-based access control – regardless of connectivity method.

The NAC policies ensure only the right users have access to the right information, from the right place, at the right time. Third party authentication systems can also be integrated with the use of the External Captive Portal interface.

High Performance & High Availability

Enterasys Wireless delivers the perfect combination of high-performance and high-availability demanded by today's wireless applications. By combining unique voice optimization features and the latest in industry standards, Enterasys Wireless provides enterprise grade reliability for all users.

High Scalability

The Enterasys Wireless portfolio supports from a single AP to 1,000+ APs per wireless controller, providing linear scalability from small to large wireless deployments. In addition, wireless controllers can be networked to scale beyond the limits of a single controller or availability pair to offer a multi-wireless controller mobility zone. Mobility zones enable seamless roaming across a large number of wireless controllers while still delivering real-time session-availability services without requiring the purchase of additional AP licenses for redundancy.

Enterasys Wireless provides true end-to-end Quality of Service (QoS) with each controller and AP supporting native IP prioritization (DiffServ, TOS, Precedence), Ethernet 802.1p, as well as 802.11e's WMM and TSPEC wireless QoS standards. Enterasys Wireless devices support distinct queues on all interfaces, whether wired or wireless.

When voice and data traffic are running on the same AP, voice traffic can be prioritized to ensure minimal delay and jitter for optimal voice quality. The wireless controllers are able to translate WMM prioritized traffic to existing QoS prioritization schemes on the wired network (TOS, DSCP, etc.).

Fast and Secure Roaming for Seamless Voice and Data Mobility

Enterasys Wireless Controllers manage sessions centrally to ensure fast, secure, and seamless roaming as users and devices move throughout the radio coverage range of each AP. Seamless roaming greatly improves productivity by providing true mobility across the enterprise, all transparent to the user.

The Wireless Controllers use industry standards to deliver fast and secure roaming. 802.11i pre-authentication (Pre-Auth) ensures that the user is authenticated to adjacent APs before entering their coverage range, preserving voice calls as users move throughout the enterprise. Opportunistic Key Caching (OKC) is also a supported mechanism which greatly improves device roaming times.

High Availability and Self-Healing

Redundant Enterasys Wireless Controllers can be deployed across the network and operate in failover or load sharing mode. Access points can be configured for fast-failover mode to allow configuration and service restoration (in tunnel mode) in less than two seconds, thus enabling user sessions to continue uninterrupted. When switching traffic locally, APs continue to provide service even when the link to the wireless controller is severed and can be configured to resume service should a power outage force them to restart.

Enterasys Wireless APs also feature Dynamic Radio Management, which enables the network to automatically adapt to changes in the RF environment or failure of any individual APs, ensuring availability and performance to users. Each wireless AP continuously monitors channel use, signal to noise ratio (SNR) for interference, and the receive power of neighboring APs (Enterasys or third party) to adjust their channel and transmit power.

Enterasys Wireless Controllers

Supported Features	V2110	C25	C4110	C5110
Capacity				
Total APs supported per controller	496	96	500	1050
Total APs supported in standard mode	248	48	250	525
Additional APs supported in high- availability mode	248	48	250	525
Simultaneous users per controller	4096	1024	4096	8192
Manageability				
Pre-standard (CAPWAP)	V	V	√	√
Integrated VLAN-VNS	V	√	√	√
Auto-discovery of new APs	V	V	√	√
CDR/RADIUS accounting	V	V	√	√
Visibility through Enterasys NetSight	V	V	√	√
Enterasys Wireless Management Suite integration	√	V	√	√
Integration with Enterasys NAC	V	√	√	√
Integration with Enterasys IPS and SIEM	√	V	√	V

Enterasys Wireless Controllers (cont.)

Performance and Acad acad acad acad acad acad acad aca	Supported Features		V2110	C25	C4110	C5110	
Client mobility with fast failover and session availability V V V V V V V V V	Performance and Availability						
Dynamic Radio Management (DRM), Flexible Client Access (airline fairness), V V V V V V V V V	High availability with automatic failover to a backup controller (license included)		√	√	√	√	
Lad Balancing & Ramd-sterring	Client mobility with fast failover and session availability		√	√	√	√	
Switching based upon user, application or segment)	Dynamic Radio Management (DRM), Flex Load Balancing & Band-steering	ible Client Access (airtime fairness),	V	√	V	V	
Security	Support for hybrid traffic forwarding: loca switching (based upon user, application o	I switching at AP or controller-based r segment)	√	√	√	√	
Robust standards-based security: 802.11, WEP, WPA, WPA2, TKIP, AES V V V V V V V V V	Dual, hot swappable power supplies		-	-	V	√	
S02 1x Authentication: EAP-TIS, EAP-SIM, EAP-TILS, PEAP, EAP-MD5, EAP-MD5	Security						
EAP-FAST RADIUS Authentication and Accounting	Robust standards-based security: 802.11	i, WEP, WPA, WPA2, TKIP, AES					
Encryption Algorithms: AES (CCMP), RC4-40, 104, 128-bit (TKIP, WEP)	EAP-FAST	M, EAP-TTLS, PEAP, EAP-MD5,					
Services (captive portal, URL redirect, NAC) and Walled Garden (unauthorized access to URL)	RADIUS Authentication and Accounting			√		· ·	
Advanced filtering and integration with NetSight Policy Manager							
Voice Voice ver-WLAN Optimization: 802.11e/WMM, U-APSD, TSPEC, CAC, QBSS √ √ √ √ √ ✓		ect, NAC) and Walled Garden	·				
Voice-over-WLAN Optimization: 802.11e/WMM, U-APSD, TSPEC, CAC, QBSS √ √ √ √ √ √		etSight Policy Manager	√	√	√	√	
Wired-Wireless (DSCP/TOS-to-WMM) QoS Mapping √ </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Roaming between IP subnets	•						
National Sequence multiple controllers		Mapping				·	
Networking SNMPv2cV3	-		·			· ·	
NMPv2cV/3			√	√	√	√ 	
Nouting − OSPF v2	-		./	./	./	.1	
SMA/CD						· ·	
No.						•	
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	19" Rack Mountable						
cabling and power switch at the rear unit; power switch at the front unit; power switch at the front	Front and Rear Mount	I/O cabling at back of unit; power cabling and power switch at the rear					

Enterasys Wireless Controllers (cont.)

Technical Specifications	C25	C4110	C5110
Ports			
Data Ports	2 x 10/100/1000 Base-T	4 x 10/100/1000 Base-T	2 x 10Gb Short Range Fiber Optic with LC Connectors 1 x 10/100/1000 Base-T
Management Ports	1 x 10/100/1000 Base-T2 x USB PortConsole Port DB9	1 x 10/100/1000 Base-T1 x USB PortConsole Port DB9	1 x 10/100/1000 Base-T4 x USB Ports available. Use one.Console Port DB9
Electrical			
Power Rating	Voltage: 100-240 VACFrequency: 50-60 HzPower (max): 200W	Voltage: 110/240 VACFrequency: 50-60 HzPower (max): 400 W	Voltage: 110/220 VACFrequency: 48-62 HzPower (max): 670 W
Standards Compliance			
Regulatory/ Safety	• UL 60950-1 • CSA 22.1 60950	• UL 60950-1 • CSA 22.1 60950 • EN 60950-1 • IEC 60950-1	 UL 60950-1 CSA 22.1 60950 EN 60950-1 IEC 60950-1
Emissions/ Immunity	• FCC Part 15 (Class A) • ICES-003 (Class A) • AS/NZS CISPR 22 (Class A) • EN 55022 (Class A) • EN 55024 • EN 61000-3-2 • EN 61000-3-3	 FCC Part 15 (Class A) ICES-003 (Class A) AS/NZS CISPR 22 (Class A) EN 55022 (Class A) EN 55024 EN 61000-3-2 EN 61000-3-3 	FCC Part 15 (Class A) ICES-003 (Class A) BSMI VCCI V-3 AS/NZS CISPR 22 (Class A) EN 55022 (Class A) EN 55024 EN 61000-3-2 EN 61000-3-3

Virtual Wireless Services Engine (WiSE) V2110	
Description	
Virtual Platform	VMWare ESX / ESXi4.1
Virtual Machine CPUs	4 cores or higher
Virtual Machine Memory	2G or higher
Virtual Machine Storage	25G or higher
Virtual Network Interfaces	Two data ports and one management

Ordering Information

Part Number	Description
Controllers	
WS-C25	C25 WLAN controller. Manages 16 Access Points, expandable to 48 in 16 AP increments with 16 AP capacity upgrade (WS-C20XCAPUP16). Requires Reg Domain Key.
WS-C4110	C4110 WLAN controller. Manages 50 Access Points, expandable to 250 in 25 AP increments with 25 AP capacity upgrade (WS-CTLCAPUP25). Requires Reg Domain Key.
WS-C4110-CN	C4110 WLAN controller. Manages 50 Access Points, expandable to 250 in 25 AP increments with 25 AP capacity upgrade (WS-CTLCAPUP25). China Only.
WS-C5110-2-SR	C5110 WLAN controller. Manages 150 Access Points, expandable to 525 in 25 AP increments with 25 AP capacity upgrade (WS-CTLCAPUP25). Requires Reg Domain Key.
Virtual Wireless Service	es Engine
WS-V2110-8-IL	V2110 Virtual Wireless Services Engine for Israel. Base of 8 APs, expandable to 248 APs in 16 AP increments (WS-C20XCAPUP16).
WS-V2110-8-JP	V2110 Virtual Wireless Services Engine for Japan. Base of 8 APs, expandable to 248 APs in 16 AP increments (WS-C20XCAPUP16).
WS-V2110-8-NAM	V2110 Virtual Wireless Services Engine for NAM (FCC) Regulatory Domain. Base of 8 APs, expandable to 248 APs in 16 AP increments (WS-C20XCAPUP16).
WS-V2110-8-ROW	V2110 Virtual Wireless Services Engine for Rest-of-World (verify country availability before ordering). Base of 8 APs, expandable to 248 APs in 16 AP increments (WS-C20XCAPUP16).
Capacity Upgrades	
WS-C20XCAPUP16	WLAN controller capacity upgrade for C20, C20N, C25, and V2110. Increases capacity of WLAN controller by 16 access points.
WS-CTLCAPUP25	WLAN controller capacity upgrade for C4110 and C5110. Increases capacity of WLAN controller by 25 access points.

Ordering Information

Part Number	Description
Activation Keys	
WS-CTLREG8P-IL	V8 Regulatory Domain Key for Israel. Enables WLAN controller and access points with appropriate radio settings for Israel.
WS-CTLREG8P-JP	V8 Regulatory Domain Key for Japan. Enables WLAN controller and access points with appropriate radio settings for Japan.
WS-CTLREG8P-NAM	V8 Regulatory Domain Key for FCC Domain. Enables WLAN controller and access points with appropriate radio settings for this region.
WS-CTLREG8P-ROW	V8 Regulatory Domain Key for Rest-of-World (verify country availability before ordering). Enables WLAN controller and access points with appropriate radio settings for this region.

Warranty

As a customer-centric company, Enterasys is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible.

Select Enterasys Wireless Controllers come with a lifetime warranty. For full warranty terms and conditions please go to: www.enterasys.com/support/warranty.aspx.

Service & Support

Enterasys Networks provides comprehensive service offerings that range from Professional Services to design, deploy and optimize customer networks, customized technical training, to service and support tailored to individual customer needs. Please contact your Enterasys account executive for more information about Enterasys Service and Support.

Contact Us

For more information, call Enterasys Networks toll free at 1-877-801-7082, or +1-978-684-1000 and visit us on the Web at enterasys.com



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