



简化分布式室外WiFi热点

Proxim的Tsunami® XP-10100设计为单端点解决方案,可提供高性能室外WiFi。通过将近视线点对多点SU与ORiNOCO®接入点集成到一个单元中,可以快速可靠地部署室外热点。Tsunami® XP-10100专为无线互联网服务提供商而设计,但同样适用于校园范围的连接。

世界级性能

- 点对多点系统,可提供高达866 Mbps的数据速率,覆盖距离可达10英里(16 km)
- 的接入点802.11b/g/n,可提供数据速率达300 Mbps
- IPv4和IPv6双协议栈,演变到未来网络
- 具有监控,简化或高级Web界面的三级登录
- 内置功能丰富的网络协议,用于桥接,路由和网关功能
- 铁路认证的高速移动速度高达185 mph (295 km/h)

近视距和高级功能

- 具有双千兆以太网端口, PoE输出可为其他设备,如监控摄像头或其他无线电设备供电
- 执行深度数据包检查(DPI)以创建独特和复杂的服务规则,轻松分层服务级别
- BSU冗余(500毫秒切换时间)和动态信道选择,无论什么条件都能确保服务的连续性
- 频谱分析仪用于分析干扰频段,并选择最佳可用频道
- 具有VLAN分配的多SSID,以及以太网端口接入和中继模式

运营商级解决方案

- 为未许可的频谱中最安全的室外无线通信实施AES加密和远程认证拨入用户服务身份验证
- 利用Proxim的无线室外路由协议(WORP®)来防止窥探,并通过SSL/TLS1.2, SSH和SNMPv3实现高度安全的远程管理
- 具有以太网端口,具有直通IEEE 1588v2同步功能,支持9k巨型帧。
- 公共热点与主页重定向和防火墙防御区一体化
- HotSpot 2.0可自动搜索,并无缝地向公共Wi-Fi网络进行身份验证

实现技术

Proxim WORP®

-结合网络访问控制、数据调度排队、高级QoS和加密,以确保高效和安全的数据传输。

Proxim ClearConnect™

一套确保在高密度无线部署中进行稳定和可靠通信的干扰缓解技术

Proxim FastConnect™

移动技术在固定基站和移动车辆之间提供快速切换,以确保不间断的宽带接入,支持速度达到295公里/小时(185英里/小时)

强大且可靠

Tsunami® MP-10100专为恶劣环境而设计,完全符合IP67防护等级,可在大风,高盐和高温极端条件下提供多年可靠的服务。

关于Proxim Wireless

Proxim Wireless是全球先进的Wi-Fi、点对点、点对多点户外无线系统的先驱和领头羊,该系统用于建立关重要任务和高度可用性通信。

Proxim公司拥有超过30年的无线电方面的经验,以其无与伦比的可靠性,卓越的性能和创新动力而闻名。

产品系列的兼容性

- 连接所有现有的Tsunami® MP-10200, MP-10100, MP-8200, MP-820和MP-830产品
- 完美集成在ProximVision®高级云端运营商管理系统和控制器中

规格

PRODUCT MODELS		PART NUMBERS					
XP-10150-BS1	Tsunami® XP 10150 Base Station, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP	901-00282 XP-10150-BS1-US					
XP-10100-SUA	Tsunami® XP 10100 Subscriber Unit, 866 Mbps, MIMO 2x2, Type-N Connectors with 11n AP	901-00284 XP-10150-BS1-WD					
XP-10150-SUR	Tsunami® XP 10150 Subscriber Unit, 866 Mbps, MIMO 2x2, 22 dBi panel antenna with 11n AP	901-00236 XP-10100-SUA-US					
		901-00237 XP-10100-SUA-WD					
		901-00283 XP-10150-SUR-US					
		901-00285 XP-10150-SUR-WD					
INTERFACES							
WIRED ETHERNET	Two auto MDI-X RJ45 10/100/1000Mbps Ethernet (Port #1 with PoE in & Data, Port #2 with PoE out & Data)						
WIRELESS PROTOCOL	- Radio #1: WORP® (Wireless Outdoor Router Protocol), - Radio #2: Wi-Fi (802.11b/g/n)						
RADIO & TX SPECS							
	Radio #1			Radio #2			
FREQUENCY	4.900 – 5.925 GHz (Subject to Country Regulations)			2.400 – 2.484 (Subject to Country Regulations)			
				802.11n	802.11g	802.11b	
MIMO	2x2:2			2x2:2	N/A	N/A	
MODULATION	OFDM BPSK - QAM256			OFDM BPSK - QAM64	OFDM BPSK-QAM64	DSSS DBPSK-CCK	
DATA RATE	Up to 866 Mbps			Up to 300 Mbps		Up to 54 Mbps	Up to 11 Mbps
	80 MHz	40 MHz	20 MHz	40 MHz	20 MHz	20 MHz	20 MHz
TX POWER	MCS0: 28	MCS0: 28	MCS0: 29	MCS0/8: 26	MCS0/8: 26	6 Mbps: 26	1 Mbps: 26
	MCS9: 21	MCS9: 22	MCS9: 25	MCS7/15: 20	MCS7/15: 21	54 Mbps: 22	11 Mbps: 26
RX SENSITIVITY (Per=10%)	MCS0: -89	MCS0: -93	MCS0: -94	MCS0/8: -88/90	MCS0/8: -92/91	6 Mbps: -93	1 Mbps: -93
	MCS9: -68	MCS9: -71	MCS8: -74	MCS7/15: -72/69	MCS7/15: -74/72	54 Mbps: -77	11 Mbps: -89
OTHER	Dynamic Channel Selection (DCS) based on interference detection Dynamic Frequency Selection (DFS) based on radar signature Automatic Transmit Power Control (ATPC) with EIRP limit support			Automatic Channel Selection (ACS)			
ANTENNA							
	Radio #1			Radio #2			
XP-10100-SUA	Two N-type Connectors with built-in Surge Protection			Two N-type Connectors with built-in Surge Protection			
XP-10150-BS1/SUR	Integrated 2x2 MIMO 22 dBi Dual Polarized 1 foot Antenna			Two N-type Connectors with built-in Surge Protection			
SECURITY							
	Radio #1			Radio #2			
ENCRYPTION	AES 128			802.11i/WPA2 and WPA Wireless Security with AES-128, TKIP or WEP			
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication			Enterprise/802.1x, Personal/ PSK (Pre Shared Key) or Open			
802.1X SUPPORT				PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-TTLS, EAP-AKA			
QoS							
	Radio #1			Radio #2			
	Asymmetric UL/DL committed and maximum information rate per service flow with Best Effort and Real Time Polling Services			802.11e/WMM Enhanced Distributed Channel Access, 4 priority queues			
Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType			802.1p priority, IPTOS			
THROUGHPUT							
	Radio #1			Radio #2			
	Up to 672 Mbps @ 80 MHz			Up to 150 Mbps			
MANAGEMENT							
REMOTE	Telnet and SSH, Web GUI and SSL, TFTP, SNMPv3						
SNMP	SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB						
OTHER	Syslog, sFlow™ agent, SNTP and local time, Spectrum analyzer						

SYNCHRONIZATION				
	Pass-through IEEE 1588v2 Ethernet Synchronization			
NETWORK				
MODES	Radio #1	Radio #2		
	Bridging, Routing (RIP v2 and IP tunneling)	Access Point		
IP STACK	IPv4 and IPv6 simultaneously			
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs			
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging			
POWER	INPUT	OUTPUT		
	36 to 57 VDC via Ethernet port1 (Power over Ethernet)	48 to 57 VDC – 25 Watt max on Ethernet port2 (PoE – software controlled)		
	12 VDC via Access port	12 VDC on Access port		
	Power should not be provided simultaneously on both ports			
POWER CONSUMPTION				
	16.5 Watt typical, 22.5 Watt maximum			
ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING
	-40° to 60°C (-40° to 140° Fahrenheit)	-50° to 70°C (-58° to 158° Fahrenheit)	100% relative humidity - IP67	200 km/h (125 mph)
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)
XP-10100-SUA	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	9.84 x 8.66 x 2.83 in (250 x 220 x 72 mm)	10.91 lbs (4.95 kg)	5.07 lbs (2.3 kg)
XP-10150-BS1/SUR	14.56 x 13.0 x 7.87 in (370 x 331 x 200 mm)	12 x 12 x 3.40 in (305 x 305 x 85 mm)	11.90 lbs (5.4 kg)	6.17 lbs (2.8 kg)
SAFETY STANDARDS				
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)			
CERTIFICATIONS				
	USA: FCC 90Y + 15C + 15E (UNII 15.247) Canada: IC RSS 102 + RSS 111 + RSS 247 Europe: RED EN 301 489-1 + EN 301-489-17 + EN 300 328 + EN 301 893 + EN 302 502 Railway: EN 50155 + EN 50121 + EN 61373			
PACKAGE CONTENTS				
	<ul style="list-style-type: none"> One Tsunami® XP-10100-SUA unit with four N-type surge protected connectors Or One Tsunami® XP-10150-BS1/SUR unit with integrated 22 dBi panel antenna plus two N-type surge protected connectors One power injector and country specific power cord One Connector weatherproofing kit (Includes all recommended weatherproofing material) One Wall / Pole mounting kit One Grounding kit Two 2.4 GHz, 5 dBi omni antennas One Antenna alignment (RJ11) dongle One Quick Installation Guide 			
MTBF & WARRANTY				
	>250 000 hours, 2-year warranty; ServPak Extended Support available.			