

# BlueSecure™ Controller Family



Open solutions to secure  
and manage WLANs from the  
branch office to the enterprise.

## WHAT'S INSIDE

- BlueSecure **400** Controller
- BlueSecure **1100** Controller
- BlueSecure **2100** Controller
- BlueSecure **5000** Controller



BlueSecure **400**  
Controller



BlueSecure **1100**  
Controller



BlueSecure **2100**  
Controller



BlueSecure **5000**  
Controller

#### FEATURES & BENEFITS

- Simple, Centralized WLAN deployments from the network edge to the core.
- Open, multi-vendor end-to-end WLAN solution that integrates easily into existing infrastructure.
- Seamless Layer 3 roaming with Secure Mobility and without the need for additional or proprietary client software.
- Flexible policy enforcement: Role, Time, VLAN, Services, Bandwidth/QoS.
- Universal WLAN authentication for diverse users/devices.
- Protects networks from unauthorized users with strong data encryption.
- Intrusion detection and worm protection, with optional client scanning for endpoint security.
- VoIP – QoS and Bandwidth Management to prevent network contention issues.

## BlueSecure™ Controller Family

*Delivering trust and simplicity in a complex wireless world.*

Wireless local area networks are being deployed at a record pace as the need for mobile connectivity both within and outside the workplace increases. By equipping employees with mobile devices, leading-edge enterprises remove the barriers to networking and communication, increase productivity, and gain competitive advantage.

Even with the obvious cost savings and productivity gains, wireless LAN technology presents significant challenges for IT professionals. How do you support a growing number of wireless devices and competing standards, protect valuable computer resources from the growing threat of Internet viruses and worms, overcome bandwidth limitations, protect the network from unauthorized users, and integrate your WLAN into an existing wired infrastructure? The answer—Bluesocket's BlueSecure Controller family.

Utilizing Bluesocket's Secure Mobility® technology for wireless data and voice applications, BlueSecure Controllers provide high-performance, reliable, policy-based WLAN security and management solutions that have been deployed by hundreds of large institutions, enterprises, and public access providers.

#### Enterprise-wide WLAN Solutions from the Edge to the Core

Bluesocket® offers a wide range of scalable Controllers to support your enterprise WLAN deployments from the network edge to the core. The **BlueSecure 400** supports branch and regional offices, and workgroups of up to 50 concurrent users; while the **BlueSecure 1100** can support entire office floors of up to 100 users; for medium to large enterprises, the **BlueSecure 2100** supports up to 400 users while providing hardware-based encryption acceleration. For larger enterprises requiring higher throughput and centralized WLAN management and control, the **BlueSecure 5000** provides a core infrastructure platform supporting up to 1000 users.

#### Open Systems Interoperability

Bluesocket's "standards agnostic" approach is optimized to support wireless devices and access points from all major vendors, and support for current and future 802.11 versions. This open systems approach means you won't be locked into a specific technology or vendor, thereby ensuring interoperability with your current and future WLAN infrastructure.

#### Secure Mobility Adds New Meaning to Wireless LAN Security

Bluesocket's patent-pending Secure Mobility® technology gives users of laptops, PDAs and other mobile devices wireless access to corporate networks and the Internet while moving across subnets. Secure Mobility gives users freedom to work where they choose—letting them roam seamlessly across networks, even while using IPsec tunneling, without the need to re-authenticate. Secure Mobility technology is compatible with, and enhances current WLAN security standards such as 802.1x, WPA and 802.11i without requiring additional or proprietary client software.

#### Flexible Role-Based Access Control and Policy Enforcement

Bluesocket's unique role-based approach provides convenient management of privileges for different categories of users. BlueSecure Controllers match user permissions to your organizational structure. IT Administrators can define destinations

## HOW IT WORKS

(such as a finance server, router or IP address subnet), services (such as HTTP, FTP, POP3), user locations, time/date schedules, and available bandwidth to control which users have access to each resource. Multiple service and destination groups simplify policy creation and reduce the complexity and cost of administration of large-scale networks.

### Universal WLAN Authentication

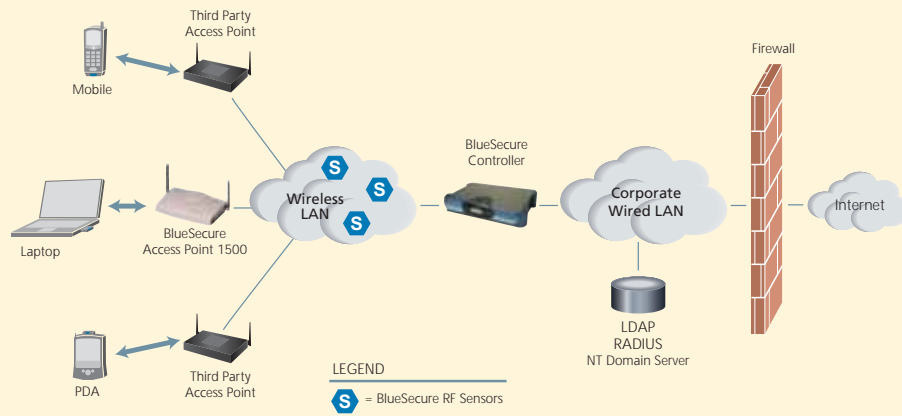
The BlueSecure Controller provides comprehensive authentication options utilizing username/password combinations or digital certificates, with the authentication database held locally or centrally in RADIUS, LDAP, NT Domain servers, or Windows Active Directories. Users can log into a Windows Domain and authenticate to the WLAN seamlessly with Bluesocket's unique "Transparent Windows Domain Login." Where AP-based WPA/802.11i authentication is required, Bluesocket complements the login process transparently, allowing appropriate access for the WLAN user. Where browser-based, secure (SSL) login is required (e.g. Hot Spots, Universities, Guests/Visitors), Bluesocket supports a customizable web-login page that allows end-user branding and an ability to upload third-party SSL certificates. Where "non-intelligent" devices need WLAN access, MAC-based authentication and role/VLAN assignment is supported, providing true wireless fire-walling capabilities.

### Strong Data Encryption

With the BlueSecure Controller, you can bring the highest level of security directly to the user's mobile device. All BlueSecure Controllers support IPSec, typically used in high-end VPN and firewall products. Microsoft's native L2TP/IPSec client implementation is also supported, which allows for a single, non-proprietary access to WLAN and existing remote access VPN resources. Other options include using PPTP which is also built into both Windows and Macintosh platforms.

### Intrusion Detection, Worm Protection and Clientless Scanning for Trusted Endpoint Security

Unlike signature-based tools or OS-specific scanners, the BlueSecure Controller has implemented real-time monitoring of Wi-Fi users' data to detect malicious traffic based on the users' actual behavior without requiring any client-side software. This enables



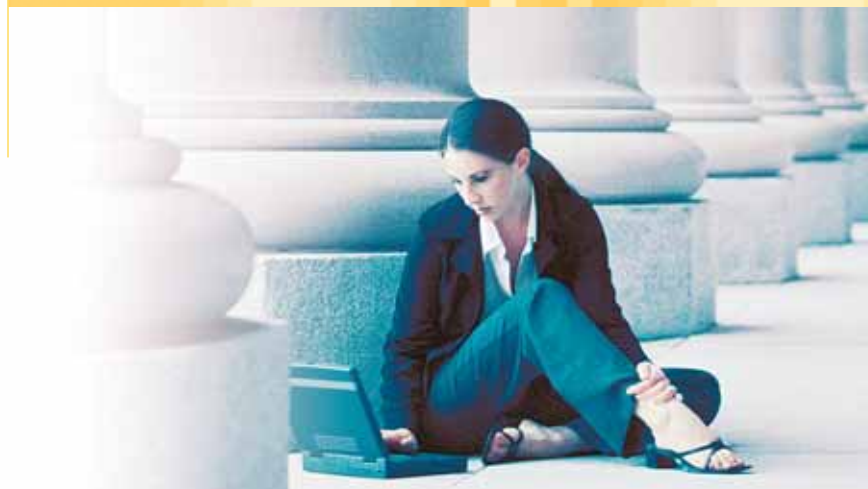
*The BlueSecure Controller acts as a firewall between the wireless LAN access points and the wired LAN, and requires no changes to existing wired LAN hardware or user client software. Additional BlueSecure Controllers can be connected to provide hot failover capability, as well as scalability and subnet mobility across the enterprise.*

administrators to automatically block network access to hackers or worm infected users even for "zero-day" attacks well before traditional signature-based tools have updates available.

The BlueSecure Controller fully integrates Check Point's Integrity™ Clientless Security, to provide a clientless, maintenance-free way to protect wireless devices of viruses, worms, Trojan Horses, spyware/malware and other threats and anomalies before they are allowed to log-on and gain access to the WLAN. Taking advantage of automated Web-based scanning, Bluesocket is unique in providing trusted endpoint security, ensuring the user's device is free from viruses and worms, and has the required security and OS patches.

### Security and QoS for VoIP

802.11 is a shared bandwidth technology, so network contention becomes an issue as the number of users and network traffic increases. Bluesocket overcomes this problem by providing administrators fine grained bandwidth and WLAN prioritization QoS controls to ensure low latency performance for voice and video. Bluesocket's unique stateful packet inspection allows administrators to identify and secure dynamic, real-time voice protocols such as SIP, H232 and SCCP and provides a complete platform for converged voice, video and data over a single WLAN infrastructure.



# BlueSecure Controller Family Platform Specifications

	BlueSecure 400	BlueSecure 1100	BlueSecure 2100	BlueSecure 5000
<b>Performance</b>				
Unencrypted Throughput	50 Mbps	100 Mbps	400 Mbps	1 Gbps
Encrypted Throughput	20 Mbps	30 Mbps	150 Mbps	400 Mbps
Users	50-license limited	Up to 100	Up to 400	Up to 1,000
<b>Network Interfaces</b>				
	Five 10/100 Mbps	Two 10/100 Mbps Failover: 10/100 Mbps	Two 10/100/1000 Mbps Optional: One or Two 1000Base-SX Fiber Failover: 10/100 Mbps	Two 10/100/1000 Mbps Optional: One or Two 1000Base-SX Fiber Failover: 10/100/1000 Mbps
<b>Dimensions</b>				
Rack Units	1U	1U	2U	2U
Width	15" (381 mm)	16.75" (425 mm)	17.5" (445 mm)	17.5" (445 mm)
Height	1.75" (44 mm)	1.75" (44 mm)	3.6" (88 mm)	3.6" (88 mm)
Depth	11.75" (298 mm)	13" (330 mm)	14" (356 mm)	17.5" (445 mm)

## Common Features

### Authentication Methods

- Local DB
- RADIUS and LDAP
- Windows Active Directory
- Transparent Windows Login
- 802.1x, WPA, 802.11i Transparent Login
- Kerberos
- Digital Certificates
- Cosign/CAS/PubCookie
- Secure Tokens
- MAC Address

### Wireless Encryption

- IPSec (DES, 3DES, AES)
- IPSec Client Support
  - Windows XP/2000
  - MAC OS 10.2/10.3
- L2TP/IP SEC
- PPTP (40- & 128-bit)
- SSL

### Multiple Controllers

- Hot- Failover
- Secure Mobility® Matrix
- Load Sharing
- Configuration Replication

### API

- Web Services Based
- XML/RPC over SSL

### Policy Management

- Role
- Location
- Time/Schedule
- VLAN (802.1q)
- Stateful Packet Inspection
- TCP/UDP Ports
- Protocols
- Destinations

### QoS/CoS

- Bandwidth Management (incoming, outgoing)
- Traffic Prioritization
- DiffServ Marking

### Management

- Secure Admin Web Page
- BlueView™ Management System
- SNMP v2c & v3
- CLI (Serial Port)
- Local Logging
- Syslog
- HP OpenView

### IP Address Assignment

- Static IP
- DHCP Server/Relay
- NAT

### Public Access

- RADIUS Accounting
- Session-Timeout
- Walled Garden
- Website Redirect
- AnyIP™ Support
- iPass™ Client Support
- Email Redirect (SMTP)
- Remote Subnet Aggregation

### Intrusion

#### Detection/Protection

- Clientless Endpoint Scanning
- Real-time Traffic Monitoring
- Protection Against:
  - Packet Flooding
  - Noise Generators
  - Internet Worms/Viruses
  - "Zero-day" Attacks
- Intrusion Alerts, Log Entries and Reports

### Power

- 110-240V, 220 Watts (BSC 400)
- 110-240V, 80 Watts (BSC 1100)
- 110-240V, 200 Watts (BSC 2100)
- 110-240V, 350 Watts (BSC 5000)

### Ease of Use

- No Proprietary Client Software Required
- Intuitive Web Configuration
- Uses Existing Authentication Servers
- Multiple Custom Login Pages
- Bulk IP and MAC Address Upload

### Compliance

- FCC, UL
- VCCI, CE

### Environmental

- 10 to 35°C operating temp.
- 40-80% Humidity (non-condensing)



The leader in secure mobility solutions

For more information, visit our Website at [www.bluesocket.com](http://www.bluesocket.com)

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