



Bluesocket BlueSecure Controller Family

Product Features

- Architecture supports future 802.11 standards and access points from all major vendors without architectural changes or the need for costly infrastructure upgrades.
- 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 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.
- Integrated, full service guest access.
- Supports high availability configurations for seamlessly failover

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

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—ADTRAN®'s Bluesocket®'s BlueSecure Controller family.

Utilizing Bluesocket Secure Mobility® technology for wireless data and voice applications, the 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. The Bluesocket BlueSecure Controller family supports edge-to-edge direct forwarding

Enterprise-wide WLAN Solutions from the Edge to the Core

The Bluesocket BlueSecure controllers are one of industry's highest performing and most scalable enterprise mobility platforms. Designed to scale from small branch and regional offices to large enterprises requiring higher throughput and centralized WLAN management and control, the Bluesocket BlueSecure Controllers support your WLAN deployments from the network edge to the core.

Future Ready Platform Supports Third Party Access Points

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. This unique "open system" functionality, eliminates the need for costly "rip and replace" upgrades.

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Secure Mobility Adds New Meaning to Wireless LAN Security

Bluesocket's patented Secure Mobility technology gives users of laptops, tablets 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 making a voice call or using a VPN, like PPTP, without the need to reauthenticate. 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. The BlueSecure Controllers match user permissions to your organizational structure. IT Administrators can define destinations (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.

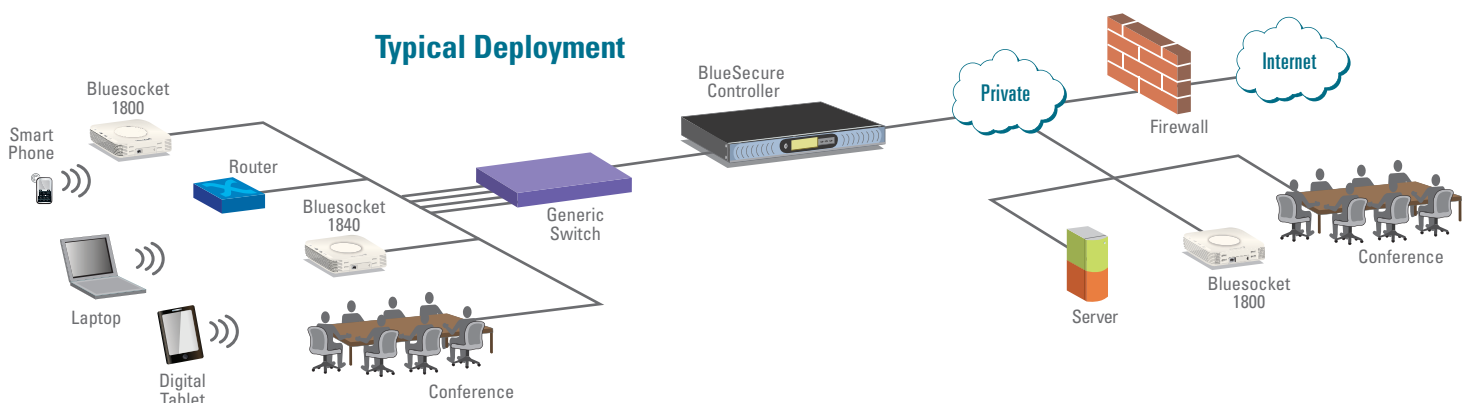
Universal WLAN Authentication

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, or Windows Active Directories. Where AP-based WPA/WPA2 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.

"Best in Class" Data Encryption

With the Bluesocket BlueSecure Controller, you can bring the highest level of security directly to the user's mobile device. All BlueSecure Controllers support IPSec passthru for clients that want to secure traffic across an open SSID through to a VPN server at the core. Other options include using PPTP which is also built into both Windows and Macintosh platforms.

Typical Deployment



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

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

Unlike signature-based tools or OS-specific scanners, the Bluesocket 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 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 clientless scanning, to provide a 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, H.323 and SCCP and provides a complete platform for converged voice, video and data over a single WLAN infrastructure.

BlueSecure Controller Family Platform Specifications

	BlueSecure 600	BlueSecure 1200	BlueSecure 2200	BlueSecure 3200	BlueSecure 5200
Number of APs Supported	8	25	50	100	150
Typical Deployment	Small Offices/ Retail Stores	Branch Office	Regional Office	Regional Office/ Medium Enterprise	Medium/Large Enterprise/Campus
Network Interfaces					
Data Interfaces	Four GbE Managed One GbE Protected	Four GbE Managed One GbE Protected	Four GbE Data Ports Optional Fiber	Four GbE Data Ports Optional Fiber	Four GbE Data Ports Optional Fiber
Other	One 10/100 Failover	One 10/100 Failover	One GbE Failover One GbE Admin	One GbE Failover One GbE Admin	One GbE Failover One GbE Admin
Dimensions					
Rack Units	1U	1U	2U	2U	2U
Width	15" (380 mm)	15" (380 mm)	17.5" (445 mm)	17.5" (445 mm)	17.5" (445 mm)
Height	1.75" (44.5 mm)	1.75" (44.5 mm)	3.5" (88 mm)	3.5" (88 mm)	3.5" (88 mm)
Depth	11.5" (290 mm)	11.5" (290 mm)	17.5" (445 mm)	17.5" (445 mm)	17.5" (445 mm)

* Although user licensing is based on concurrent authenticated users, it is recommended you consider and plan for unregistered users (users connected to the system but not yet authenticated), in your user count, when sizing the appropriate controller for your organization as unregistered users consume system resources. For best performance, have a mixture of authentication types. For example: 802.1X authentication, MAC authentication, and web based authentication. Having all web based authentication may have an unfavorable effect on the BSC's web server performance.

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Platform Specifications

Authentication Methods

- Local DB
- RADIUS and LDAP
- Windows Active Directory
- Transparent Windows Login
- 802.1x, WPA/WPA2, 802.11i Transparent Login
- EAP methods - PEAP, TTLS, TLS, FAST, LEAP, MD5
- Kerberos
- Digital Certificates
- Cosign/CAS/PubCookie
- Secure Tokens
- MAC Address

Wireless Encryption

- TKIP (128 bit)
- AES-CCM (128 bit)
- SSL encrypted API and HTTPS admin/login page

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
- Voice Prioritization

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

- Credit Card Billing
- Guest Access
- RADIUS Accounting
- Session-Timeout
- Walled Garden
- Website Redirect
- Any IPTM Support
- iPassTM 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

- BSC 600-80 Watts
- BSC 1200-80 Watts
- BSC 2200-350 Watts
- BSC 3200-350 Watts
- BSC 5200-350 Watts

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

Voice

- Vocera
- Spectralink
- Cisco
- SIP
- H.323

Compliance

- FCC, UL
- VCCI, CE

Environmental

- 50F to 95F (10 to 35°C) operating temperature
- 40-80% Humidity (non-condensing)

Ordering Information

Equipment	Part #
Bluesocket BlueSecure Wireless Controllers	
BSC-600 Supports up to 8 APs/64 users	1700902F1
BSC-1200 Supports up to 25 APs/200 users	1700903F1
BSC-2200 Supports up to 50 APs/400 users	1700904G1
BSC-2200 Supports up to 50 APs/400 users (optional Fiber Interfaces)	1700904G2
BSC-3200 Supports up to 100 APs/1,500 users	1700905G1
BSC-3200 Supports up to 100 APs/1,500 users (optional Fiber Interfaces)	1700905G2
BSC-5200 Supports up to 150 APs/4,000 users	1700906G1
BSC-5200 Supports up to 150 APs/4,000 users (optional Fiber Interfaces)	1700906G2
ADTRAN Bluesocket Access Points	
Bluesocket 1800 Access Point: 802.11 a/b/g/n, six internal MIMO antennas	1700910F1
Bluesocket 1840 Access Point: 802.11 a/b/g/n, six external RP-SMA connectors	1700911F1