

Enterprise Access Controller

EC-5000

Complete Control of Visitor Access into Enterprise Networks

The ValuePoint Enterprise Access Controller 5000 provides efficient, flexible, and secure connectivity for guests and visitors into Enterprise and SMB networks. This includes corporations, government, hospitals, universities, and other large existing networks. The Controller supports **32 VLANs and 6 User Groups** each with their own unique Access, Routing, Bandwidth and Security Policies. The EC-5000 will adjust to almost any foreseeable subscriber configuration, and adapt to support that subscriber automatically and transparently. Subscriber access can be authenticated via **Local User Database, RADIUS, POP3, LDAP or Windows Domain Server Authentication**. EC-5000 has a high performance IXP processor and hardware based encryption, supporting up to **400 concurrent users** and 90 Mbps total throughput.



Plug and Play Connectivity

Controller Adapts to Subscriber Laptop Settings

The wireless subscriber can access the Enterprise Access Controller with no change to his/her existing IP related settings, such as IP address, subnet mask, default gateway IP address, or HTTP Proxy in his/her notebook computer. No matter what settings the subscriber has in the notebook computer, the subscriber always can access the Controller.

SMTP Redirect is supported so that users can access their normal Email server without any changes to their laptop configurations.

Flexible User Authentication

Secure authentication based on industry standards

Subscriber authentication on the EC-5000 can be configured for the industry standards RADIUS, POP3, LDAP, and Windows Domain Server. Radius PAP/CHAP with full AAA attribute support, POP3 is Support SSL, LDAP is ServerIP,Port Number,Base DN, and Windows Domain Server is Transparent Login. EC-5000 has a customizable login page.



Advanced Local Authentication

2000 local and on-demand users

Authentication can also be controlled totally within the Enterprise Access Controller 5000 using an internal database of 2000 local users and 2000 on-demand users. Unlike the typical primitive Local Authentication feature on other Gateways, EC-5000 local accounts are richly manageable by account start and end dates and access time. And after their initial login, subscribers can be given access to the network without needing to revalidate their account. Multiple logins on the same user account are supported.

Pass-Through

A select list of 50 URLs can be accessed without subscriber login. 40 MAC and IP addresses can access the network with no authentication; however their access will be restricted to their user group policies.

Security and Management

Highly secure and manageable

In addition to the Authentication methods listed above, the EC-5000 supports 802.1x, WPA, WPA-PSK, 802.1q VLAN, VPN Pass-through, SSL login, and DoS protection.

The Enterprise Access Controller 5000 is easy for administrators to manage through Web-based, SSH, and SNMP management interfaces, and it has rich Reporting/Monitoring. The Web-based management is client-independent and is done by securely authenticating the administrator over SSL. In addition, a sophisticated Syslog server is built-in to log events and enable automated local and remote monitoring.

Networking

The EC-5000 provides feature rich networking capabilities including DHCP Server and Relay, NAT, DHCP Client, Static IP, PPPoE, DHCP Proxy, HTTP Proxy, and full routing. This means the EC-5000 can connect to any available network, offering you the widest range of choices, and Link Aggregation for maximum bandwidth.

It also offers InterIP segment roaming, IP/Port redirection, SMTP redirection, 6 sets of Routing profiles, 10 sets of HTTP Proxy Server, 40 sets of DMZ mapping, 40 sets of virtual server mappings.

The EC-5000 hardware is 2 10/100 LAN ports, 2 10/100 WAN ports with link aggregation, and a COM port. This allows additional access points or other network devices to be supported without adding more hardware to your installation.



Technical Specifications

Hardware	
Mounting	19" 1U rack mount
Dimensions	42.5x4.4x24 cm (WHD)
Weight	3.3Kg
Operating Temperature	5-45 C
Storage Temperature	0-65 C
Power	110-240VAC 50/60Hz
Connection & Display	
LAN port	2 x 10Base 802.3 / 100Base-T 802.3u
WAN port	2 x 10Base 802.3 / 100Base-T 802.3u with Link Aggregation
COM1 Console port	Default set to 115200,n,8,1, 8,1 and no flow control
COM2 AUX port	Reserved for future usage
LED indication	1 x Power + 1 x System Status + 4 x Link Status / Link Activity
Performance	
Maximum concurrent users	Recommend up to 400 concurrent users
Maximum user database	2000 local user + 2000 On-demand user
Maximum throughput	90 Mbps
Networking	
Operation Mode	Bridge, Router, NAT
802.1x Support	WPA, WPA-PSK, 802.1x only
802.1q VLAN	32 VLAN Individual NAT / Router Mode
Link Aggregation	Round-Robin on WAN ports
WAN 1 connection method	Static IP, DHCP, PPPoE
WAN 2 connection method	Static IP, DHCP
IP Plug and Play (IP PnP)	Eliminate client IP reconfiguration
Inter-IP-segment roaming	Maintain connectivity across different IP segments
DHCP Server and relay	Act as DHCP server or relay
IP/ Port Destination Redirection	40 set of IP or Port address redirection
SMTP Redirect	Supported
Specific Route	6 sets of routing profiles with 10 rules each
HTTP Proxy Server	10 sets
DMZ Server Mapping	40 sets
Virtual Server Mapping	40 sets
User Management	
User Group	5 user groups + 1 guest group
Group Policy	Authentication types, IP filter, Routing Profile, bandwidth control, login schedule, Black List
Guest Group Policy	Session Length (unlimited or up to 12 hour) ; 10 IP filter rules
MAC ACL	40 sets of MAC addresses which are allowed to open login page
External authentication server support	2 X POP3, 2 X LDAP, 2 X RADIUS, 1 X Windows Domain Server
POP3 Server Authentication	Support SSL (POP3S)
LDAP Server Authentication	Server IP, Port Number, Base DN
MS Domain Server Authentication	Transparent login
RADIUS Authentication	PAP/CHAP
RADIUS Attributes	Start time / End time / User ID/ User MAC / User IP/ Packets In / Bytes In/ Packets Out/ Bytes Out /User-Name Calling-Station-Id / Framed-IP-Address/Acct-Terminate-Cause/Acct-Input-Octets/Acct-Output-Octets/Acct-Input-Packets/Acct-Output-Packets
WISP Support	III roaming
Multiple Login on single account	Yes



Privilege IP/MAC	40 set, no authentication required
Session idle timeout	in minutes ; up to unlimited
Login notification email	automatic POP3 email link to login page
Security	
Firewall	6 sets of firewall profiles with 10 rules each based on Protocol/ Port/Source MAC/Source Port/DestinationPort/ SourceIP/DestinationIP/ network segment
Walled Garden	50 URL / Domain / Network Segments
DoS Protection	NMAP FIN/URG/PSH ; Xmas Tree; SYN/RST; Ping of Death; Null Scan; SYN/FIN
User SSL web Login	supported
Secured Shell (SSH) Host	SSH Console login
VPN pass-through	IPSec and PPTP
Reporting and Monitoring	
Online User Monitoring	Reporting Field: ID, IP, MAC, Packet In/Out, Idle time, force logout
Authentication Sever fail	Error message with admin contact info
WAN Fail detection	Deny or open all access with error message
Device monitoring	Monitor up to 40 IP devices alive status
User History Log	Field: Start/End Time, ID, IP, MAC, Packet In/Out, Idle time
History log email	Send out every 1~12 hr or stored up to 3 days
Accounting	
External Accounting Servers	RADIUS, Micros-Fidelio Property Management System (PMS)
Billing Plans	up to 10
Billing Method	Time (hour) or Network Usage (MB)
Credit Redemption	Customers add credit to account prior expiration
Network Time Protocol client	Support external NTP server for time synchORIZATION
Management	
SNMP Support	SNMP V2c ready-only access
SSH remote management	Supported
128bit SSL web admin	Supported
Customized Login/logout page	Image limited at 512K, image format: jpg, gif
Remote firmware update	Web UI
Hotel Property Management System	MICROS Fidelio
External Syslog Server	Supported
Console Admin	reset / change admin password / debug utilities / service status
Certification and Approval	
CE, FCC, UL	Yes

About ValuePoint Networks

ValuePoint is a manufacturer of Wi-Fi products for service providers, small and medium sized businesses, and the shared access market. ValuePoint's products are designed for the unique needs of Service Providers, Wireless ISPs, Billing Providers, and Venue Operators in the burgeoning mobile access space. For more information on ValuePoint's Rugged Access Points and Wireless Gateways, please visit us online.

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