

COURSE: SECURITY+ SY0-401

MODULE 1: NETWORK SECURITY

Part B

- **Given a scenario, implement common protocols and services**
- **Given a scenario, troubleshoot security issues related to wireless networking**

Common Protocols

- ICMP
- IPv4
- IPv6
- iSCSI
- Fibre Channel
- FCoE
- FTP
- SFTP
- TFTP
- TELNET
- HTTP
- NetBIOS
- IPSec
- SNMP
- SSH
- DNS
- TLS
- SSL
- TCP/IP
- FTPS
- HTTPS
- SCP



Standard Ports

- 21
- 22
- 25
- 53
- 80
- 110
- 139
- 143
- 443
- 3389

OSI Model – Ports & Protocols

Application

Presentation

Session

Transport

Network

Data Link

Physical

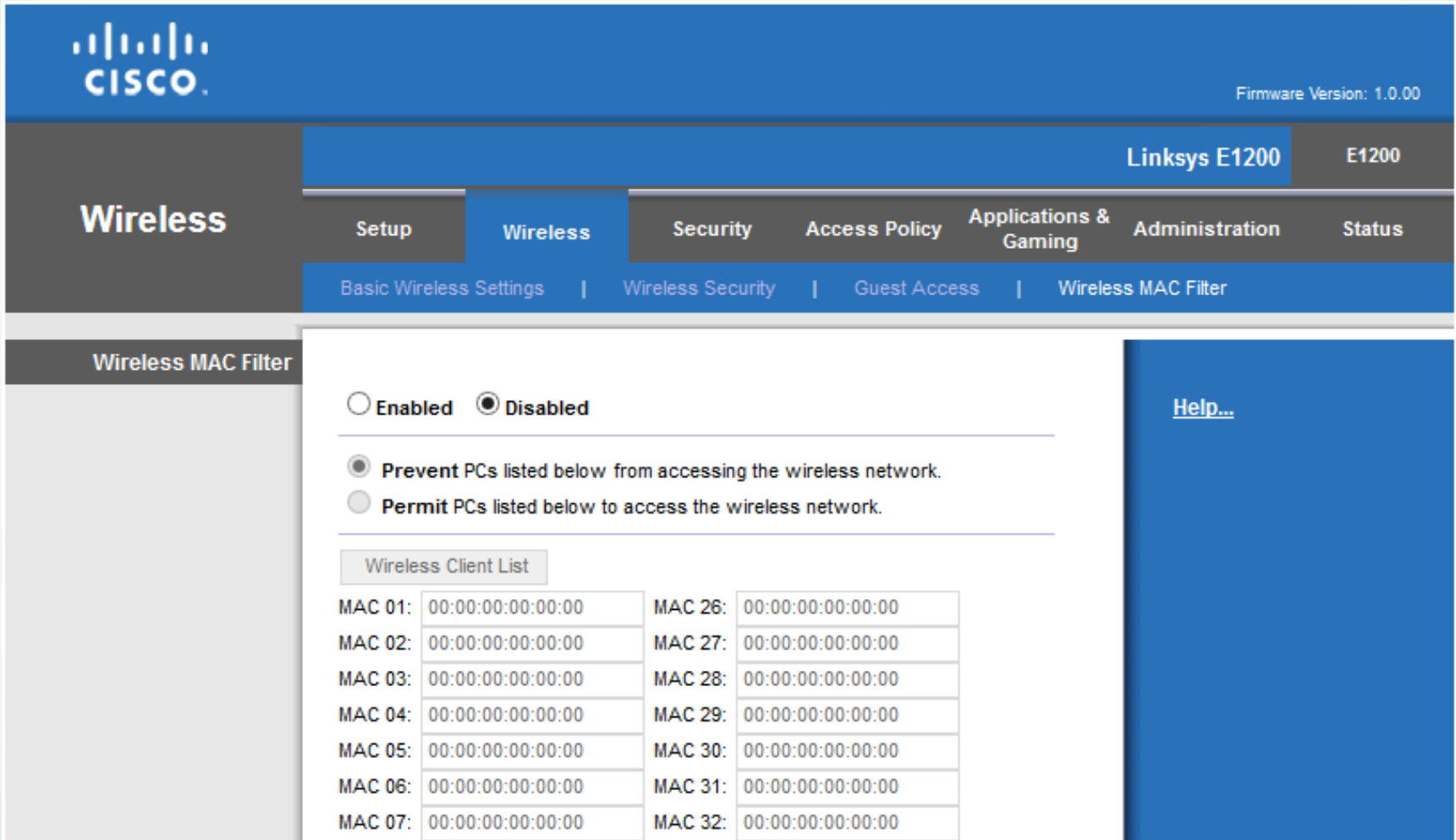
Wireless Protocols and Features

- WPA
- WPA2
- WEP
- EAP
- PEAP
- LEAP

Wireless Protocols and Features

- TKIP
- CCMP
- Antenna Placement
- Power level controls
- Captive portals
- Antenna types
- Site surveys
- VPN (over open wireless)

MAC Filter



The screenshot shows the Cisco E1200 web interface for configuring the Wireless MAC Filter. The page is titled "Wireless MAC Filter" and is part of the "Wireless" configuration section. The firmware version is 1.0.00. The configuration is currently set to "Disabled".

Wireless MAC Filter Configuration:

- Enabled
- Disabled

Prevent PCs listed below from accessing the wireless network.

Permit PCs listed below to access the wireless network.

Wireless Client List

MAC 01:	00:00:00:00:00:00	MAC 26:	00:00:00:00:00:00
MAC 02:	00:00:00:00:00:00	MAC 27:	00:00:00:00:00:00
MAC 03:	00:00:00:00:00:00	MAC 28:	00:00:00:00:00:00
MAC 04:	00:00:00:00:00:00	MAC 29:	00:00:00:00:00:00
MAC 05:	00:00:00:00:00:00	MAC 30:	00:00:00:00:00:00
MAC 06:	00:00:00:00:00:00	MAC 31:	00:00:00:00:00:00
MAC 07:	00:00:00:00:00:00	MAC 32:	00:00:00:00:00:00

Disable SSID Broadcast

The screenshot shows the Cisco Linksys E1200 web interface. The top navigation bar includes the Cisco logo and the firmware version (1.0.00). The main navigation menu is divided into 'Wireless' and 'Guest Access'. Under 'Wireless', there are sub-menus for Setup, Wireless, Security, Access Policy, Applications & Gaming, Administration, and Status. The 'Guest Access' sub-menu is selected, showing options for Basic Wireless Settings, Wireless Security, Guest Access, and Wireless MAC Filter. The 'Guest Access' page contains the following settings:

- Allow Guest Access: yes no
- Guest Network Name: [Redacted]
- Guest Password: [Redacted]
- Total Guests Allowed: 5 (dropdown)
- SSID Broadcast: Enabled Disabled

Below the settings, a note states: "Your guests should connect to your wireless network listed above by opening a Web browser and entering the guest password."



Demonstration

NetStumbler



THANK YOU
