



# **ZONE PRIVACY ON THE NOKIA A032 QUICK GUIDE**



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## 1. INTRODUCTION

This guide explains zone privacy on the Nokia A032. After reading this quick guide, you should understand the concepts of zone privacy and how to implement it on a network.

Nokia wireless LAN products and specific network planning are not explained in this guide. Wireless LAN security is not covered in this guide but is available in a separate Nokia wireless LAN security document.

## 2. ZONE PRIVACY

Enabling Zone Privacy on the access point will filter data traffic at a low level to ensure that wireless users are protected from malicious protocol attack. It also protects the user wireless user from other users viewing or accessing files on shared on their laptops



**Caution:** Enabling Zone Privacy will prevent access point management from any wireless client. However, access points can be managed from its LAN interface.

### 2.1 ZONE PRIVACY OPERATION

Enabling Zone Privacy in the Access Point has the following affect on its operation:-

Operation with Zone Privacy enabled	Reason
The DHCP server is disabled.	It is assumed that DHCP services are handled by a Zone Controller.
Any frames received on the LAN interface or the on the IEEE802.11b interface which are not IP frames, ARP frames or IAPF frames are discarded.	Doing this will disable all non-IP-based protocols e.g. Netware, NetBIOS.
Any multicast or broadcast IP frames other than DHCP frames received from the IEEE802.11b interface are discarded.	The intention here is to prevent server advertisement frames from wireless stations being propagated to other wireless clients. These advertisements are sent out by laptops if they have shared drives active and will mean that shared drives will not be seen by other laptops. This will also have the effect of blocking name lookup by NetBIOS protocols

	running over IP.
Any ARP frames received on the IEEE802.11b interface resolving IP addresses in the same subnet as the AP are discarded unless the address being resolved is the Access Zone Controller.	This will block any attempts by a wireless station to get the MAC address of another client or an access point. This will prevent connection to an AP or another wireless client.
Any IP frames received on the IEEE802.11b interface destined for the same subnet as the AP are discarded unless the destination is the Access Zone Controller.	This will block frames generated by a port scanner which fills in the ARP table on the client. It will not be possible to send IP frames to a wireless client or an AP by going through all combinations of MAC addresses and IP addresses.



**Note:** The access point assumes that the zone controller and the access points are on the same subnet as each other.

### 3. CONFIGURING ZONE PRIVACY

Zone Privacy can be enabled from both the command line interface, using either telnet or Hyperterminal using a serial port, or via the web management pages in the Access Point. The Access Point gateway IP address should also be set to the IP address of the Zone Controller.



**Note:** The default setting for the access point is zone privacy off.

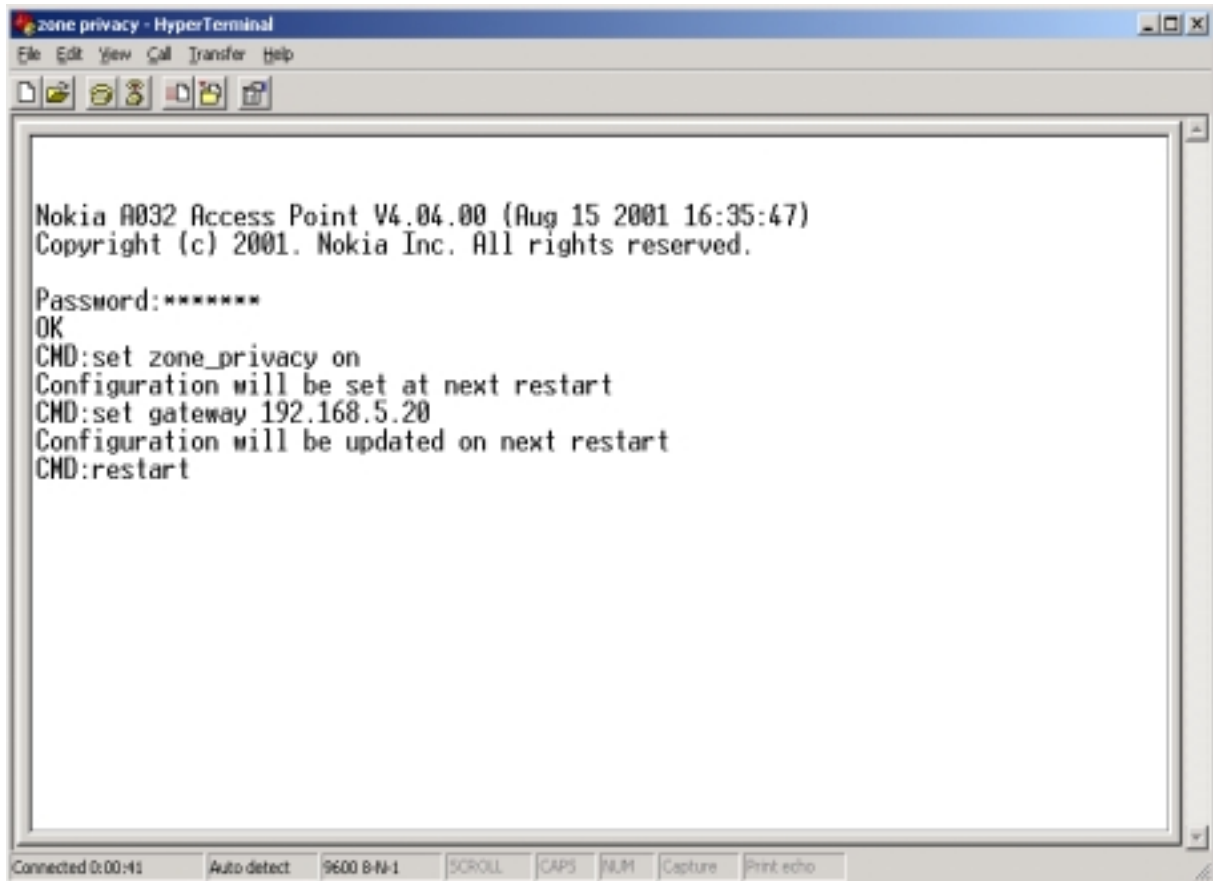
#### 3.1.1 Using the Command Line Interface

To configure the Access Point via the command line interface:-

1. connect to the command line using telnet or Hyperterminal
2. enter the password
3. enter the following commands:-

```
set zone_privacy on<enter>
set gateway xxx.xxx.xxx.xxx<enter>
restart<enter>
```

where xxx.xxx.xxx.xxx is the IP address of the Access Zone Controller. This is shown in the example below where the Access Zone Controller has the IP address 192.168.5.20.



```
zone privacy - HyperTerminal
File Edit View Call Transfer Help

Nokia A032 Access Point V4.04.00 (Aug 15 2001 16:35:47)
Copyright (c) 2001. Nokia Inc. All rights reserved.

Password:*****
OK
CMD:set zone_privacy on
Configuration will be set at next restart
CMD:set gateway 192.168.5.20
Configuration will be updated on next restart
CMD:restart

Connected 0:00:41  Auto detect  9600 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

**Figure 1: Zone Privacy setup via Command Line**

### 3.1.2 Web Page

Zone Privacy is enabled on the Access Point Advanced Setup screen shown below. This screen is also where the 'IP Gateway' field should be filled in with the IP address of the Zone Controller. Having entered this information, the 'Enter' button must be pressed followed by the 'Save' button to restart the Access Point.

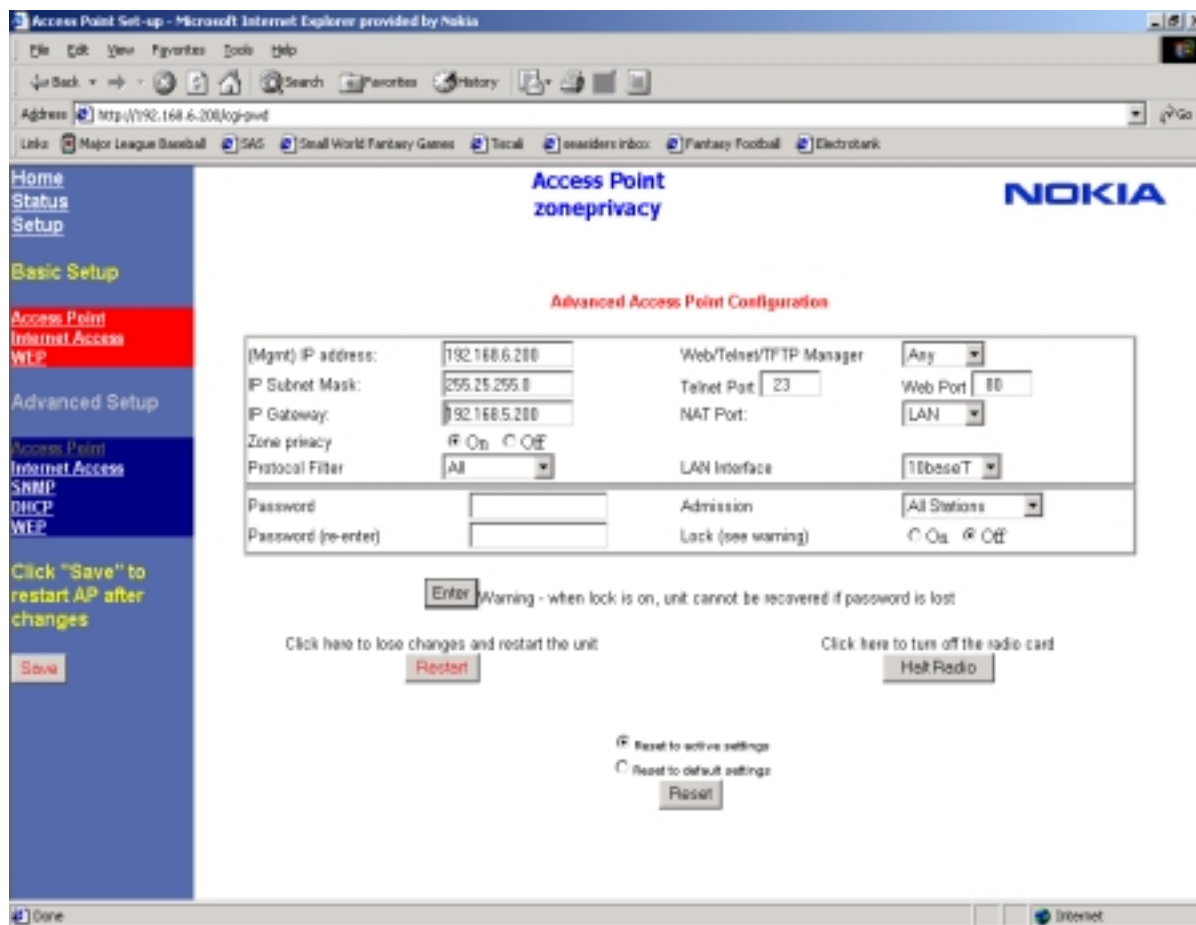


Figure 2: Zone Privacy setup via the web