



# NBAR Protocol Discovery

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## Introduction to NBAR Protocol Discovery

The NBAR Protocol Discovery feature provides an easy way of discovering the application protocols passing through an interface. Network Based Application Recognition (NBAR) determines which protocols and applications are currently running on the network. With Protocol Discovery, you can discover any protocol traffic that is supported by NBAR and obtain statistics that are associated with that protocol.

NBAR provides several classification features that identify applications and protocols from Layer 4 through Layer 7. NBAR is also used in Cisco Application Visibility and Control (AVC). With AVC, NBAR provides better application performance through better QoS and policing, and provides finer visibility about the network that is being used.

## Configuring NBAR Protocol Discovery

Follow the procedure given below to enable protocol discovery:

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>wireless profile policy <i>profile-policy</i></b> <b>Example:</b> Device(config)# wireless profile policy nbar-proto-policy	Configures a WLAN policy profile and enters wireless policy configuration mode.

	Command or Action	Purpose
<b>Step 3</b>	<b>central switching</b> <b>Example:</b> Device(config-wireless-policy)# central switching	Configures the wireless policy profile for central switching.  <b>Note</b> NBAR Protocol Discovery is supported in local mode (central switching) and in FlexConnect (central switching) mode.
<b>Step 4</b>	<b>ip nbar protocol-discovery</b> <b>Example:</b> Device(config-wireless-policy)# ip nbar protocol-discovery	Enables application recognition on the wireless policy profile by activating the NBAR2 engine.

## Verifying Protocol Discovery Statistics

To view protocol discovery statistics, use the following command:

```
Device# show ip nbar protocol-discovery wlan wlan-profile-name
wlan_profile_name (iif_id 0xF0400002)
Last clearing of "show ip nbar protocol-discovery" counters 00:07:12
```

Protocol	Input	Output
	-----	-----
	Packet Count	Packet Count
	Byte Count	Byte Count
	5min Bit Rate (bps)	5min Bit Rate (bps)
	5min Max Bit Rate (bps)	5min Max Bit Rate (bps)
	-----	-----
unknown	22	0
	4173	0
	0	0
	2000	0
dhcp	3	2
	1166	724
	0	0
	0	0
ping	2	2
	204	236
	0	0
	0	0
Total	27	4
	5543	960
	0	0
	2000	0

To clear protocol discovery statistics, use the following command:

```
Device# clear ip nbar protocol-discovery wlan wlan-profile-name
```