Configure WAN Mode

Contents

Introduction

This document describes WAN Mode feature on Cisco867VAE Platform and the options that enable the DSL Internet Services.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on Cisco867VAE Platform.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Configure

Here is the configuration to enable WAN Modes on CISCO867VAE Platform:

```
Cisco867VAE(config)#wan mode ?

 dsl       WAN interface is DSL

 ethernet  WAN interface is ethernet
```

```
DSL Mode
```
This mode allows to configure your DSL parameters on ATM or Ethernet but not on any layer 3 interface, that is Gigabitethernet 0 in this device.

```
Cisco867VAE#sh ip int brief
```

```
Interface               IP-Address      OK? Method Status                 Protocol

ATM0                    unassigned      YES NVRAM  administratively down down

Ethernet0               unassigned      YES NVRAM  administratively down down

FastEthernet0           unassigned      YES unset  up                     up

FastEthernet1           unassigned      YES unset  down                   down

FastEthernet2           unassigned      YES unset  down                   down

FastEthernet3           unassigned      YES unset  down                   down

GigabitEthernet0        unassigned      YES NVRAM  down                   down

Vlan1                   10.106.47.21    YES NVRAM  up                     up
```

Error messages encountered when in DSL mode:

```
 Cisco867VAE(config)#wan mode dsl


% Ethernet WAN interface will be disabled.


Cisco867VAE(config)#

*Jan 18 04:35:57.931: %LINK-5-CHANGED: Interface GigabitEthernet0, changed state to
administratively down


Cisco867VAE(config)#int gig 0

Cisco867VAE(config-if)#no shut


% WAN interface is DSL


Cisco867VAE(config)#controller vdsl 0

Cisco867VAE(config-controller)#no shut


Cisco867VAE(config)#int eth0

Cisco867VAE(config-if)#no shut

*Jan 18 04:40:46.507: %LINK-3-UPDOWN: Interface Ethernet0, changed state to down


Cisco867VAE(config-if)#int atm 0

Cisco867VAE(config-if)#no shut

*Jan 18 04:40:58.771: %LINK-3-UPDOWN: Interface ATM0, changed state to down
```
Ethernet Mode

In Ethernet mode you won't be able to configure any DSL parameters, but you can use layer 3
Gigabitethernet interface for outside network.

```
 Cisco867VAE#wan mode ethernet

% DSL interfaces will be disabled.

Cisco867VAE#

*Jan 18 04:12:48.687: %CONTROLLER-5-UPDOWN: Controller VDSL 0, changed state to administratively
down

Cisco867VAE(config)#controller vdsl 0

Cisco867VAE(config-controller)#no shut

% Operation not allowed when wan mode is ethernet.

Cisco867VAE#sh ip int brief

Interface                 IP-Address      OK? Method Status                Protocol

ATM0                      unassigned      YES NVRAM  administratively down down

Ethernet0                 unassigned      YES NVRAM  administratively down down

FastEthernet0             unassigned      YES unset  up                    up

FastEthernet1             unassigned      YES unset  down                  down

FastEthernet2             unassigned      YES unset  down                  down

FastEthernet3             unassigned      YES unset  down                  down

GigabitEthernet0          unassigned      YES NVRAM  administratively down down

Vlan1                     10.106.47.21    YES NVRAM  up                    up

Cisco867VAE#conf t

Enter configuration commands, one per line.  End with CNTL/Z.

Cisco867VAE(config)#int atm0

Cisco867VAE(config-if)#no shut

% WAN interface is Ethernet.

Cisco867VAE(config-if)#int eth0

Cisco867VAE(config-if)#no shut

% WAN interface is Ethernet.

Cisco867VAE(config)#int gig 0

Cisco867VAE(config-if)#no shut
```

```
*Jan 18 04:30:08.851: %LINK-3-UPDOWN: Interface GigabitEthernet0, changed state to down
```
To disable WAN mode is not possible when it is in DSL mode as its the default mode in CISCO 867 platform.

But when disabled in Ethernet mode, it changes to DSL mode.

```
 Cisco867VAE(config)#no wan mode dsl

Cisco867VAE(config)#do sh run | sec wan

wan mode dsl


Cisco867VAE(config)#do sh run | sec wan

wan mode ethernet

Cisco867VAE(config)#no wan mode ethernet


% Ethernet WAN interface will be disabled.
```

> **Note**: Use the [Command Lookup Tool](#) ([registered](#) customers only) in order to obtain more information on the commands used in this section.

Verify

Use this section to confirm that your configuration works properly.

```
 Cisco867VAE#sh run | inc wan mode

wan mode dsl
```

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.