

Displaying and Changing VPI/VCI Values on the Cisco 675 CPE

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Introduction

This document shows how to display and change the VPI/VCI values for the Cisco 675 Customer Premises Equipment (CPE).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Displaying VPI/VCI Values

The default values are VPI=1 and VCI=1, and these settings much match the values configured on the Internet Service Provider's digital subscriber line access multiplexer (DSLAM) on the subscriber side.

Note: Not all versions of the Cisco 675 software have a default of VPI=1 and VCI=1. Also, in Cisco Broadband Operating System (CBOS) version 2.3 or earlier, the VPI count is 1 to 4. In later versions, the VPI count is 1 to 8. Upgrade to release 2.3.9 or later if you have problems configuring the VPI/VCI values. The valid ranges for VPI and VCI addresses are shown in this table:

VPI <count>	VPI Range	VCI Range
1	0	0..255
2	0..1	0..127
4	0..3	0..63

In order to display the current VPI/VCI values for the Cisco 675:

```
cbos#show int wan0-0
WAN0-0 ATM Logical Port
PVC (VPI 1, VCI 1) is open.

!--- the default value of 1/1

ScalaRate set at 1088 Kbps
AAL 5          UBR Traffic
PPP LCP State: Opened
PPP NCP State (IP Routing): Opened
PPP MRU: 2048   HDLC Framing: disabled   MPOA Mode: VC Mux
PPP Login: cisco
  Authentication Type: Autodetecting/PAP
RADIUS: disabled
PPP Tx: 145866          Rx: 145776
Dest IP: 10.1.1.1
Dest Mask: 255.255.255.255
IP Port Enabled
```

Changing VPI/VCI Values

In order to change the VPI/VCI values, complete these steps:

1. Shut down the WAN0-0 interface.

```
cbos#set int wan0-0 close
Closing connection wan0-0
```

2. Verify that the interface is shut down.

```
cbos#show int wan0-0
WAN0-0 ATM Logical Port
PVC (VPI 1, VCI 1) is configured.

!--- note that it does not say "is open"
```

```
ScalaRate set at 1088 Kbps
AAL 5          UBR Traffic
IP Port Enabled
```

3. Change the values.

```
cbos#set int wan0-0 vpi 2
```

```
!--- new value
```

```
Change completed.
```

```
cbos#set int wan0-0 vci 34
```

```
!--- new value
```

```
Change completed.
```

```
cbos#set int wan0-0 open
```

```
!--- opens the WAN interface
```

4. Verify the changes.

```
cbos#show int wan0-0
WAN0-0 ATM Logical Port
PVC (VPI 2, VCI 34) is configured.

!--- new values (will not
!--- be in open state until a reboot)

ScalaRate set at 1088 Kbps
AAL 5          UBR Traffic
IP Port Enabled

cbos#show run
[[ PPP Device Driver = Section Start ]]
PPP Port User Name = 00, tito
PPP Port User Password = 00, dayans
[[ IP Routing = Section Start ]]
IP Port Address = 00, 10.1.1.2
[[ CBOS = Section Start ]]
NSOS Prompt = 4/33
NSOS Serial More = 20
[[ ATM WAN Device Driver = Section Start ]]
ATM WAN Virtual Connection Parms = 00, 2, 34, 0

!--- new values
```

5. Issue **write** and **reboot** commands to the Cisco 675.

```
cbos#write
NVRAM written.

cbos#reboot
Hello!
Expanding CBOS image...
CBOS v2.2.0.000
```

Note: The WAN0-0 interface was closed before the VPI/VCI values were changed. For it to be functional, you need to open it. When both the **write** and **reboot** commands are issued on the Cisco 675, the WAN0-0 interface is automatically opened.

Related Information

- [Cisco 675 Frequently Asked Questions](#)
- [Asymmetric Digital Subscriber Line \(ADSL\) Support Page](#)
- [Using the Command Line Interface](#)
- [Technical Support & Documentation – Cisco Systems](#)

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