

# 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
8	0..7	0..31

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 Params = 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.

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Network Infrastructure: Remote Access
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## 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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