

Configuring the Cisco 1720 Via the Console

To configure a Cisco 1720, you must connect a console cable to the Console port of the router. A console cable and RJ45-RS232 adapter is provided.

Connect the console cable to the console port of the 1720 and to a PC (or Mac with proper cables) with VT100 emulation software. 9600, 8, none 1. This is required if the router has not been preconfigured. If the router has been preconfigured by us, you will be able to telnet to the LAN interface of the router.

Once you have gained access to the router you must enter enable mode by typing 'en':

```
Router>en
```

The router will prompt you for a password. Enter the password and the prompt will change from the ending with a '>' to ending with a '#'. At this point you type 'configure':

```
Router#configure <Return>  
Configuring from terminal, memory, or network [terminal]? <Return>  
Enter configuration commands, one per line. End with Ctrl Z.
```

Input the configuration from the appropriate template (see below) and press Control-Z when you are finished.

The **Cisco 1720** comes with the following:

Cables:

RJ45 Rolled Console Cable (included is RJ45 to DB25 adapter)

Ports:

One serial console port (RJ-45)

One 10/100 Ethernet port

Two WIC interface ports

(This router is certified for our Dedicated Access service)

Configuring the Cisco 1720 for T1/Frac-T1 Dedicated Access

T1 & UBRI

```
interface Serial0
backup delay 120 120
backup interface BRI0
no ip address
no ip directed-broadcast
encapsulation frame-relay IETF
keepalive 5
frame-relay lmi-type ansi
!
interface Serial0.1 point-to-point
description <UNIQUE ARBITRARY LOGICAL NAME>
ip address <SERIAL IP ADDRESS> <SUBNET MASK>
ip broadcast-address <SERIAL BROADCAST ADDRESS>
no ip directed-broadcast
frame-relay interface-dlci <DLCI> IETF
!
interface BRI0
description <UNIQUE ARBITRARY LOGICAL NAME>
ip unnumbered FastEthernet0
no ip directed-broadcast
encapsulation ppp
dialer idle-timeout 2147483
dialer wait-for-carrier-time 10
dialer map ip 38.1.1.1 name <PAP LOGIN> <DIAL NUMBER>
dialer load-threshold 1 either
dialer-group 1
isdn switch-type <SWITCH TYPE>
isdn spid1 <SPID1> <DN1>
isdn spid2 <SPID2> <DN2>
ppp pap sent-username <PAP LOGIN> password <PAP PASSWORD>
ppp multilink
!
interface FastEthernet0
ip address <ETHERNET IP ADDRESS> <SUBNET MASK>
ip broadcast-address <ETHERNET BROADCAST ADDRESS>
no ip directed-broadcast
!
ip classless
ip route 0.0.0.0 0.0.0.0 <DEFAULT GATEWAY> 1
ip route 0.0.0.0 0.0.0.0 38.1.1.1 2
ip route 38.1.1.1 255.255.255.255 BRI0
!
access-list 101 permit ip any any
dialer-list 1 protocol ip list 101
```

Configuring the Cisco 1720 for 56k Dedicated Access

56K with Analog EBS

```

chat-script Internet "" "AT&F" OK "ATDT \T" TIMEOUT 90 CONNECT \c
!
interface Serial0
no ip address
no ip directed-broadcast
encapsulation frame-relay IETF
keepalive 5
backup delay 120 120
frame-relay lmi-type ansi
!
interface Serial0.1 point-to-point
description <UNIQUE ARBITRARY LOGICAL NAME>
ip address <SERIAL IP ADDRESS> <SUBNET MASK>
ip broadcast-address <SERIAL BROADCAST ADDRESS>
no ip directed-broadcast
frame-relay interface-dlci <DLCI> IETF
!
interface FastEthernet0
ip address <ETHERNET IP ADDRESS> <SUBNET MASK>
ip broadcast-address <ETHERNET BROADCAST ADDRESS>
no ip directed-broadcast
!
interface Async5
description <UNIQUE ARBITRARY LOGICAL NAME>
ip unnumbered FastEthernet0
no ip directed-broadcast
encapsulation ppp
dialer in-band
dialer idle-timeout 2700
dialer wait-for-carrier-time 10
dialer map ip 38.1.1.1 name <PAP LOGIN> modem-script Internet <DIAL NUMBER>
dialer-group 1
async mode dedicated
ppp pap sent-username <PAP LOGIN> password <PAP PASSWORD>
!
ip classless
ip route 0.0.0.0 0.0.0.0 <DEFAULT GATEWAY> 1
ip route 0.0.0.0 0.0.0.0 38.1.1.1 2
ip route 38.1.1.1 255.255.255.255 Async5
!
access-list 101 permit ip any any
dialer-list 1 protocol ip permit
!
line aux 0
modem InOut
stopbits 1
speed 57600
flowcontrol hardware
  
```

Configuring the Cisco 1720 for IntraNet Dedicated Access

Intranet with EBS

```
interface Serial0
description WIC_T1_INTERFACE
backup delay 120 120
backup interface BRI0
no ip address
no ip directed-broadcast
encapsulation frame-relay IETF
keepalive 5
frame-relay lmi-type ansi
!
interface Serial0.1 point-to-point
description INTERNET_PVC
ip address <SERIAL IP ADDRESS> <SUBNET MASK>
ip broadcast-address <SERIAL BROADCAST ADDRESS>
no ip directed-broadcast
frame-relay interface-dlci <DLCI> IETF
!
interface Serial0.2 point-to-point
description CUSTOMER_LAN_B
ip address <SERIAL IP ADDRESS1> <SUBNET MASK>
ip broadcast-address <SERIAL1 BROADCAST ADDRESS>
no ip directed-broadcast
frame-relay interface-dlci <DLCI TO LAN B> IETF
!
interface Serial0.3 point-to-point
description CUSTOMER_LAN_C
ip address <SERIAL IP ADDRESS2> <SUBNET MASK>
ip broadcast-address <SERIAL1 BROADCAST ADDRESS>
no ip directed-broadcast
frame-relay interface-dlci <DLCI TO LAN C> IETF
!
interface BRI0
description BACKUP_INTERFACE
ip unnumbered FastEthernet0
no ip directed-broadcast
encapsulation ppp
dialer idle-timeout 2147483
dialer wait-for-carrier-time 10
dialer map ip 38.1.1.1 name <PAP LOGIN> <DIAL NUMBER>
dialer load-threshold 1 either
dialer-group 1
isdn switch-type <SWITCH TYPE>
isdn spid1 <SPID1> <DN1>
isdn spid2 <SPID2> <DN2>
ppp pap sent-username <PAP LOGIN> password <PAP PASSWORD>
ppp multilink
```

Configuring the Cisco 1720 for IntraNet Dedicated Access

```
!  
interface FastEthernet0  
ip address <ETHERNET IP ADDRESS> <SUBNET MASK>  
ip broadcast-address <ETHERNET BROADCAST ADDRESS>  
no ip directed-broadcast  
  
!  
router ospf <AREA NUMBER>  
passive-interface FastEthernet0  
network <SERIAL1 NETWORK> <REVERSE MASK> area <AREA NUMBER>  
network <SERIAL2 NETWORK> <REVERSE MASK> area <AREA NUMBER>  
default-information originate always  
!  
ip classless  
ip route 0.0.0.0 0.0.0.0 <DEFAULT GATEWAY> 1  
ip route 0.0.0.0 0.0.0.0 38.1.1.1 2  
ip route 38.1.1.1 255.255.255.255 BRI0  
!  
access-list 101 permit ip any any  
dialer-list 1 protocol ip list 101
```