



Cisco Verification Kit Contents, Specifications, and Use Instructions

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Verikit-NOTES-05

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Contents of the Cisco Verification Kit

The Cisco Verification Kit contains the following items. Please refer to the remainder of this document for a description of each item. Field engineers are responsible for advising their local field office to provide them with a modem if the Verikit does not include one.

	Part #	Description	QTY
MODEM	160826	56K US Robotic Modem	1
	N/A	9.5v, 12w Power Supply	1
CABLES	BBT-521	50 ft. Phone Cord Extension (RJ-11)	1
	72-0876-01	Black RJ-45 to RJ-45 Console Cable (Rolled)	1
	-	7 ft. UTP Cat5e RJ-45 Network Cable	1
	-	7 ft. Cat5e RJ-45 Ethernet Crossover Cable	1
	DB-9FFNMC ¹	DB-9 Female/Female Null Modem Cable	1
ADAPTORS	29-0808-01	RS-232 to RJ-45 MDCE Adaptors	2
	29-0810-01	RS-232 to RJ-45 FDTE Adaptor	1
	29-0881-01 (European)	RS-232 TO RJ-45 Modem Adaptor (European)	2
	74-0495-01	DB-9 to RJ-45 FDTE Adaptor	2
LOOPBACK	DB9-MMGC	DB-9 Gender Changer	1
CONNECTORS	99-7912-042-1	RJ-48C T-1 Loopback Connector	
	99-7912-043-1	RJ-48S 4W 56K Loopback Connector	1
	AC07-003376	RJ-45 Ethernet Loopback Connector	1
		Female RJ45 Coupler	1
CASE, Additional TOOLS	C1113	Black Case with Molded Foam Inside	1
	47-0001-01	Inspection Slip or Sticker; Dated, Signed	1
	5-32AW	5/32 Allen Wrench	1
	CAB-AC (US Only)	Power Cord – 3 conductor PC power connector (US Only)	1
	SDDR-92-A15 (Sandisk)	Minimum 256MB USB Thumb Drive	1
	SDAD-38-A10 (Sandisk)	Compact Flash Card Reader (USB or PCMCIA type)	1

¹OPTIONAL CABLE – only specific to certain TPM vendors.

Specifications:

Modem:

Description: 56K US Robotic Modem

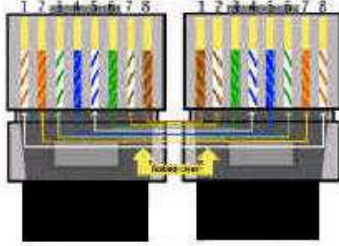


Cables:

Description: 50-Foot RJ-11 Cable

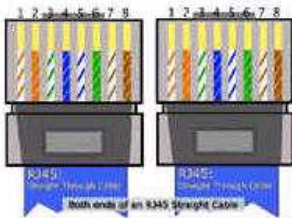


Description: Black RJ-45 to RJ-45 Console Cable (Rolled)



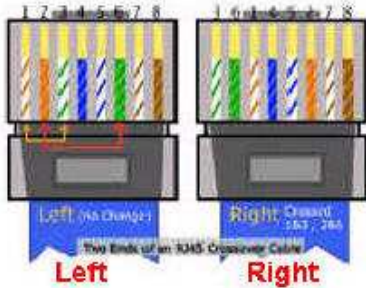
- **Pinouts:**
 - Pin 1 to Pin 8
 - Pin 2 to Pin 7
 - Pin 3 to Pin 6
 - Pin 4 to Pin 5
 - Pin 5 to Pin 4
 - Pin 6 to Pin 3
 - Pin 7 to Pin 2
 - Pin 8 to Pin 1

Descriptions: 7 ft. UTP Cat5e RJ-45 Network Cable



- **Pinouts:**
 - Pin 1 to Pin 1
 - Pin 2 to Pin 2
 - Pin 3 to Pin 3
 - Pin 4 to Pin 4
 - Pin 5 to Pin 5
 - Pin 6 to Pin 6
 - Pin 7 to Pin 7
 - Pin 8 to Pin 8

Description: 7 ft. Cat5e RJ-45 Ethernet Crossover Cable



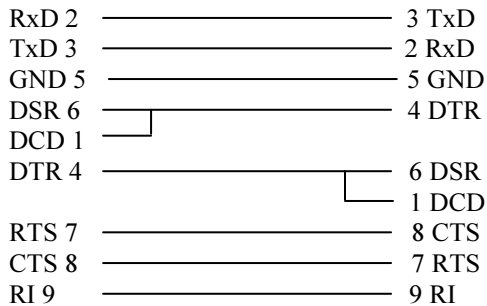
- **Pinouts:**

- Pin 1 to Pin 3
- Pin 2 to Pin 6
- Pin 3 to Pin 1
- Pin 4 to Pin 4
- Pin 5 to Pin 5
- Pin 6 to Pin 2
- Pin 7 to Pin 7
- Pin 8 to Pin 8

Description: DB-9 Female/Female Null Modem Cable, 15 ft.



- **Pinouts:**



Adaptors:

Description: RS-232 to RJ-45 MDCE Adaptor (Male RS-232 connector)



- **Pinouts:**

RJ45

Yellow to ----->
Black to ----->
White/Gray to ----->
Blue to ----->
Orange to ----->
Red and Green to ---->
Brown to ----->

RS-232 (DB25)

Pin 2
Pin 3
Pin 4
Pin 5
Pin 6
Pin 7
Pin 20

Description: RS-232 to RJ-45 FDTE Adaptor (Female RS-232 connector)



- **Pinouts:**

RJ45

Black to ----->
Yellow to ----->
Blue to ----->
White/Gray to ----->
Brown to ----->
Red and Green to ---->
Orange to ----->

RS-232 (DB25)

Pin 2
Pin 3
Pin 4
Pin 5
Pin 6
Pin 7
Pin 20

Description: DB-9 to RJ-45 FDTE Adaptor (Female DB9 connector)



- **Pinouts:**

RJ45

Yellow to ----->
Black to ----->
Orange to ----->
Red and Green to----->
Brown to ----->
Blue to ----->
White/Gray to ----->

DB9

Pin 2
Pin 3
Pin 4
Pin 5
Pin 6
Pin 7
Pin 8

Description: DB-9 Gender Changer (Female to Male)



Loopback Connectors

Description: RJ-48C T-1 Loopback Connector



- **Pinouts:**
 - Pins 1 and 4 Looped
 - Pins 2 and 5 Looped

Description: RJ-48S 4W 56K Loopback Connector



- **Pinouts:**
 - Pins 1 and 7 Looped
 - Pins 2 and 8 Looped

Description: RJ-45 Ethernet Loopback Connector



- **Pinouts:**
 - Pins 1 and 3 Looped
 - Pins 2 and 6 Looped

Description: RJ-11 2W 56K Loopback Connector



- **Pinouts:**
 - Pins 2 and 3 Looped

Description: Female RJ45 Coupler



Additional Tool

Description: 5/32 Allen Wrench



Description: Power Cord – 3 conductor PC power connector (US Only)



Description: Minimum 256MB USB Thumb Drive



Description: Compact Flash Card Reader (USB or PCMCIA type)



Connecting the Modem to a Router

Verification Kit Equipment

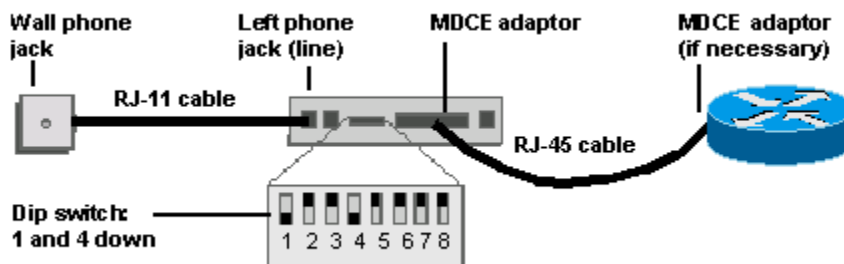
- USR modem
- RS-232 to RJ-45 adaptors (may be labeled MDCE or Modem)
- RJ-11 phone cable
- RJ-45 to RJ-45 console cable

Connecting the Modem to the Router

Refer to Figure 1 during this procedure.

1. Plug one MDCE adaptor into the modem, and plug the other into the router console port (if necessary).
2. Plug one end of the console cable into the MDCE adaptor on the modem, and the other end into the router console port.
3. Plug one end of the RJ-11 phone cable into the left RJ-11 port of the modem, and plug the other end into the wall jack.
4. Set the dip switches on the modem so that switch 1 and 4 are in the down position, and all the other switches are in the up position.
5. Plug the modem power supply into the modem and into a wall outlet.
6. Switch the modem on.

Figure 1: Connecting the Router to the Modem



Connecting the Laptop to a Router

Verification Kit Equipment

- Black RJ-45 to RJ-45 console cable
- DB-9 to RJ-45 FDTE terminal adapter (imprinted with "Terminal")
- RS-232 to RJ-45 MDCE adaptor (if necessary)

HyperTerminal Settings

- Bits per second: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

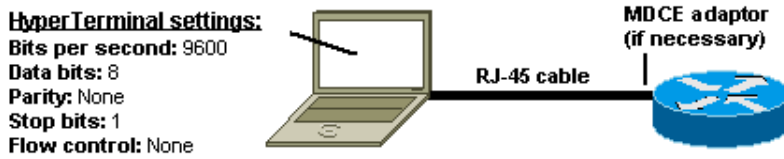
Connecting the Laptop to a Router

Refer to Figure 2 during this step.

1. Set up the HyperTerminal settings on your laptop as described above.
2. Plug the DB-9 to RJ-45 FDTE terminal adapter into the laptop nine-pin serial connector.

3. If necessary, attach an MDCE adaptor to the router console port.
4. Plug one end of the console cable into the terminal adaptor, and plug the other end into the console port of the router.

Figure 2 Connecting the Laptop to a Router



Connecting the Laptop to a MeetingPlace Server

Verification Kit Equipment

- DB-9 Female/Female Null Modem Cable

Null Modem Cable Pinouts

RxD 2	_____	3 TxD
TxD 3	_____	2 RxD
GND 5	_____	5 GND
DSR 6	_____	4 DTR
DCD 1	_____	
DTR 4	_____	6 DSR
	_____	1 DCD
RTS 7	_____	8 CTS
CTS 8	_____	7 RTS
RI 9	_____	9 RI

COM Port Parameters

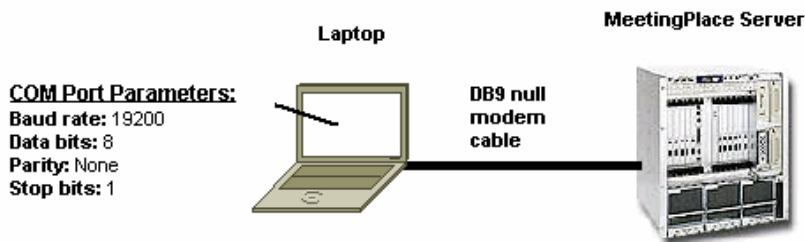
- Baud rate: 19200
- Data length: 8
- Parity: None
- Stop bits: 1

Connecting the Laptop to a MeetingPlace Server

Refer to Figure 3 during this step.

1. Locate the female-to-female DB9 null modem cable.
2. Set up your laptop COM port parameters as described above.
3. Connect one end of the null modem cable to either the
 - COM 1 port on the CPU card of the server, for servers MP-8112 and MP-8106
 - or
 - Front service port of the server, for servers MP-PCI
4. Connect the other end of the null modem cable to the COM port on your laptop.

Figure 3 Connecting the Laptop to a MeetingPlace Server



Configuring HyperTerminal from a Laptop

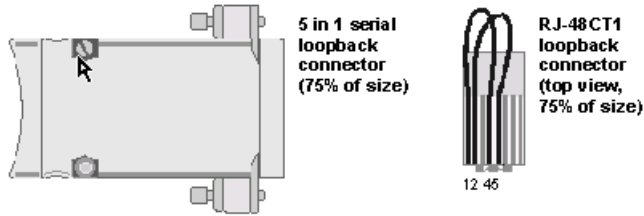
To configure HyperTerminal:

1. Locate HyperTerminal:
 - a) (For Windows95 or Window NT) Click **Start** → **Programs** → **Accessories** → **HyperTerminal** folder.
 - b) (For Window2K) Click **Start** → **Programs** → **Accessories** → **Communication** → **HyperTerminal** folder.
 - c) (For WindowXP) Click **Start** → **All Programs** → **Accessories** → **Communication** → **HyperTerminal** folder.
2. Double-Click the **HyperTerminal** accessory. The New Connection window opens with the smaller Connection Description box in the center.
3. Enter the **name of the connection** (i.e. Router Console). Then choose **OK**.
4. At the **Connect To** Dialog box, ignore all fields except “**Connect Using.**” In this field, click the arrow at the Right of the field to display choices. Choose “**COM1**” unless you are using another Serial Port. Click **OK** to continue.
5. In the COM1 Properties dialog box, choose the settings from the pull-down menus as indicated in the illustration at left and click **OK**. The HyperTerminal window is now ready to receive information from the router console.
6. If the laptop is connected to the router, power on the router. After about 30 seconds, the router begins sending information and the console startup display appears. If nothing happens, wait another 30 seconds.
7. From the **File** menu, choose **Save** to save your settings.
8. From the **File** menu, choose **Exit**. A prompt appears, asking you if you are sure you want to disconnect. Click **Yes**. HyperTerminal saves a log of your console session that you can access the next type you use HyperTerminal.

Troubleshooting the HyperTerminal Configuration

- If the startup display still does not appear, press **Enter**.
- If the startup display still does not appear, ensure that the console cable is attached to COM1 of the laptop, not to COM2, if the laptop has a COM2 port.
- If garbage characters appear, ensure that the bits per second setting is 9600 and Flow Control is set to none.

Figure 4: Frequently Used Loopback Connectors



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