

CISCO路由器配置完全手册(二) PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/142/2021_2022_CISCO_E8_B7_AF_E7_94_c101_142478.htm 一、HDLC HDLC是CISCO路由器使用的缺省协议，一台新路由器在未指定封装协议时默认使用HDLC封装。

1. 有关命令 端口设置 任务 命令 设置HDLC封装 encapsulation hdlc 设置DCE端线路速度 clockrate speed 复位一个硬件接口 clear interface serial unit 显示接口状态 show interfaces serial [unit] 1 注:1.以下给出一个显示Cisco同步串口状态的例子. Router#show interface serial 0 Serial 0 is up, line protocol is up Hardware is MCI SerialInternet address is 150.136.190.203, subnet mask is 255.255.255.0 MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, rely 255/255, load 1/255 Encapsulation HDLC, loopback not set, keepalive set (10 sec) Last input 0:00:07, output 0:00:00, output hang never Output queue 0/40, 0 0drops. input queue 0/75, 0 0drops Five minute input rate 0 bits/sec, 0 packets/sec Five minute output rate 0 bits/sec, 0 packets/sec 16263 packets input, 1347238 bytes, 0 no buffer Received 13983 broadcasts, 0 runts, 0 giants 2 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 2 abort 22146 packets output, 2383680 bytes, 0 underruns 0 output errors, 0 collisions, 2 interface resets, 0 restarts 1 carrier transitions 2. 举例 设置如下：

```
Router1: interface Serial0 ip address 192.200.10.1
255.255.255.0 clockrate 1000000 Router2: interface Serial0 ip address
192.200.10.2 255.255.255.0 ! 3. 举例使用E1线路实现多个64K专线
连接. 相关命令: 任务 命令 进入controller配置模式 controller {t1
| e1} number 选择帧类型 framing {crc4 | no-crc4} 选择line-code
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类型 linecode {ami | b8zs | hdb3} 建立逻辑通道组与时隙的映射
channel-group number timeslots range1 显示controllers接口状态
show controllers e1 [slot/port]2 注: 1. 当链路为T1
时,channel-group编号为0-23, Timeslot范围1-24. 当链路为E1时,
channel-group编号为0-30, Timeslot范围1-31. 2.使用show
controllers e1观察controller状态,以下为帧类型为crc4
时controllers正常的状态. Router# show controllers e1 e1 0/0 is up.
Applique type is Channelized E1 - unbalanced Framing is CRC4,
Line Code is HDB3 No alarms detected. Data in current interval
(725 seconds elapsed): 0 Line Code Violations, 0 Path Code
Violations 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded
Mins 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail
Secs Total Data (last 24 hours) 0 Line Code Violations, 0 Path Code
Violations, 0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs, 0 Degraded
Mins, 0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail
Secs 以下例子为E1连接3条64K专线, 帧类型为NO-CRC4,非平
衡链路,路由器具体设置如下:shanxi#wri tBuilding
configuration...Current configuration:!
version 11.2
no service
udp-small-servers
no service tcp-small-servers!
hostname shanxi!
enable secret 5 \$1\$XN08\$Ttr8nfLoP9.2RgZhcbzkk/
enable password shanxi!!
ip subnet-zero!
controller E1 0 framing NO-CRC4
channel-group 0 timeslots 1
channel-group 1 timeslots 2
channel-group 2 timeslots 3
!interface Ethernet0
ip address 133.118.40.1 255.255.0.0
media-type 10BaseT!
interface Ethernet1
no ip address
shutdown!
interface Serial0:0
ip address 202.119.96.1 255.255.255.252
no ip mroute-cache!
interface Serial0:1
ip address

```
202.119.96.5 255.255.255.252no ip mroute-cache!interface Serial0:2
ip address 202.119.96.9 255.255.255.252no ip mroute-cache!no ip
classlessip route 133.210.40.0 255.255.255.0 Serial0:0ip route
133.210.41.0 255.255.255.0 Serial0:1ip route 133.210.42.0
255.255.255.0 Serial0:2!line con 0line aux 0line vty 0 4password
shanxilogin!end 100Test 下载频道开通，各类考试题目直接下载
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