

# Digital Concepts CMTD Cheat Sheet

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**Hint: Study this immediately prior to taking the CMTD exam**

## xDSL

ADSL uses in place copper loops, with some forms of xDSL (iDSL) basic telephone services available on the same line, however bandwidth decreases with distance

56k Notes: Speeds are limited to 53kbps by fcc regulations, Digital data is not converted back to analog data, The download speed is faster than the upload speed

## NAT

Configure global address pool: ip address-pool

Configure local address pool: ip local-pool

Provides: Address translations, Ip address conservation, Firewall protection by hiding local clients, Tcp load distribution, Static address translation

NAT Overload is more hosts than addresses

Nat works by Modifying tcp port numbers

## IOS Configuration

Three default profiles in a 700 series router: LAN, Internal, standard

Two compression algorithms available: predictor, stacker

To enable Stac compression from interface mode type: compress stac

Dialer map parameters: Name hostname, Chat-script, Ip address, Dial number

Show both BRI interfaces: Show int bri0 1 2

Debug Modem Status: debug line

## VTY Notes:

Since all VTY's use telnet only one type of VTY ACL is necessary

You should always set identical restrictions on all virtual lines

Define Menu: Username jane autocommand menu sales

Default emulation: VT100 or VT200

## VPDN Notes:

Replace corporate dialup services

L2F used for tunneling link level protocols over higher protocols

To enable VPDN: enable vpdn; VPDN incoming

To debug VPDN actions: Debug vpdn event

## Dial Backup:

Backup interface interface-name

Reasons a chat script executes: Dialer triggered by ddr, Tcp port address

Active at 90%, deactivate at 40%: backup load 90 40

Ready to receive a call: Dtr up

Dial Rotary Group purpose: Apply a single interface configuration to multiple interfaces

### **Miscellaneous:**

Uses a t1 for isdn, The speed is 1.544 or 2.048mb, framing ESF or CRC4

Spoofing avoids constant updates that might keep expensive ddr lines in use

Reasons for modem autoconfiguration: Configuring a modem from a central location, Modem configuration without using modem configuration commands

AS5200 features: PRI support, single card w/Dual T1's, up to 60 DS0's (using an E1)

PPP Dialback Authentication: used for Bill consolidation, cost cutting.

BRI: 2B+1D

PRI: 23B+1D

Two types of T1's: Super frame, Extended superframe

Notes: Multilink PPP (MPPP) is described as MLP in some IOS books.