



Telco Termination Points and CSU/DSUs



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CCIE Routing & Switching

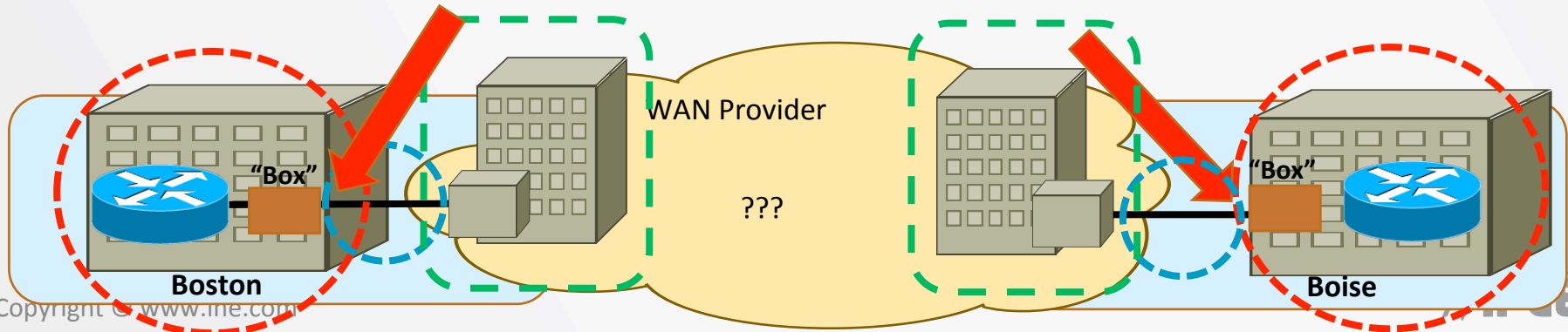


Video Overview

- Describe Telco termination point (such as, demarc, and etc.)
- Describe what a CSU/DSU does (such as, loop back processes, and etc.)

Telco Terminology

- ▷ CPE
- ▷ Demarcation Point
- ▷ Local Loop
- ▷ Central Office / POP



CSU/DSU

- ▶ Channel Service Unit / Data Service Unit
- ▶ Devices that connect DTE equipment (routers) to digital lines (like T1s)
- ▶ CSU
 - Connects to Carrier providing WAN circuit
 - Understands Carrier signalling, voltage-levels, timing, etc
- ▶ DSU
 - Connects to DTE equipment



Loopback Tests

- ▶ Loopback Tests can be run to determine where a fault resides
- ▶ Two different kinds of Loopback tests:
 - Software (initiated with Cisco IOS commands)
 - Hardware (by implementing a special Loopback Plug)
- ▶ Where can the “loopback” be implemented?
 - Within the DSU/CSU
 - Within the Telco’s connection to your DSU/CSU

