We will see now how companies interconnect their geographically dispersed LAN's using different UAN tehnologies.

* WAN operates at Layer 2 & Layer 1

: Layer 2: Pata Link Layer

Each WAN technology, such as PPP or

France Relay, uses a different Layer 2

brane bornat and provides different

ophons. Bor reliability and error reavery.

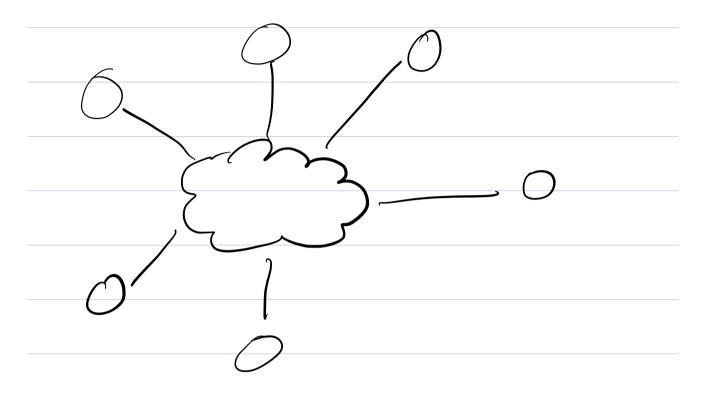
* Layer 2.5 } MPLS is not a WAN

technology but a WAN

Service that operates between

layer 2 & 3

- The Network Cloud



The wAN or the internet through which data travels to get from one LANTO another.

Cit is called a dond because its nebulus: it hides nebusk. derrees & nebusk lengths of the provider 7

* WAN Terminology and Basic Concepts *

- Customer Premises Equipment: (CPE)
is any communications equipment
located on the customer's premises
that is used to connect to the ervices
provider? = network.

The unstoner can own the CPF or can lease it from the service provider.

- Central Office (CO)
3rd party service

provider.

HQ

CPE

CPE



O uses its CPE to convect to the service provider's nearest exchange or central office.

* A modern converts a digital singal into a hormat her an analog phone line

to connect to a digital line.

Custoner

Oracle

וטכען וייכט

A dence called a Channel Service Unit/ Data Service Unit or SUIDSU is required to prepare data buffie har digital lines.

Psu: The Dsu converts the digital haves used in the service provider? s returned into a frame hormost that the router can understand and no versa.

CSU: The CSU provides termination for the dignitude signal and ensures connection integrity through error correction 2 has nowberry.

Digital lives: Copper/Fibre.
to The equipment being used on
tre grie declates whether the line
is analog or digital.
E18 E3 Mres: DSO signal.