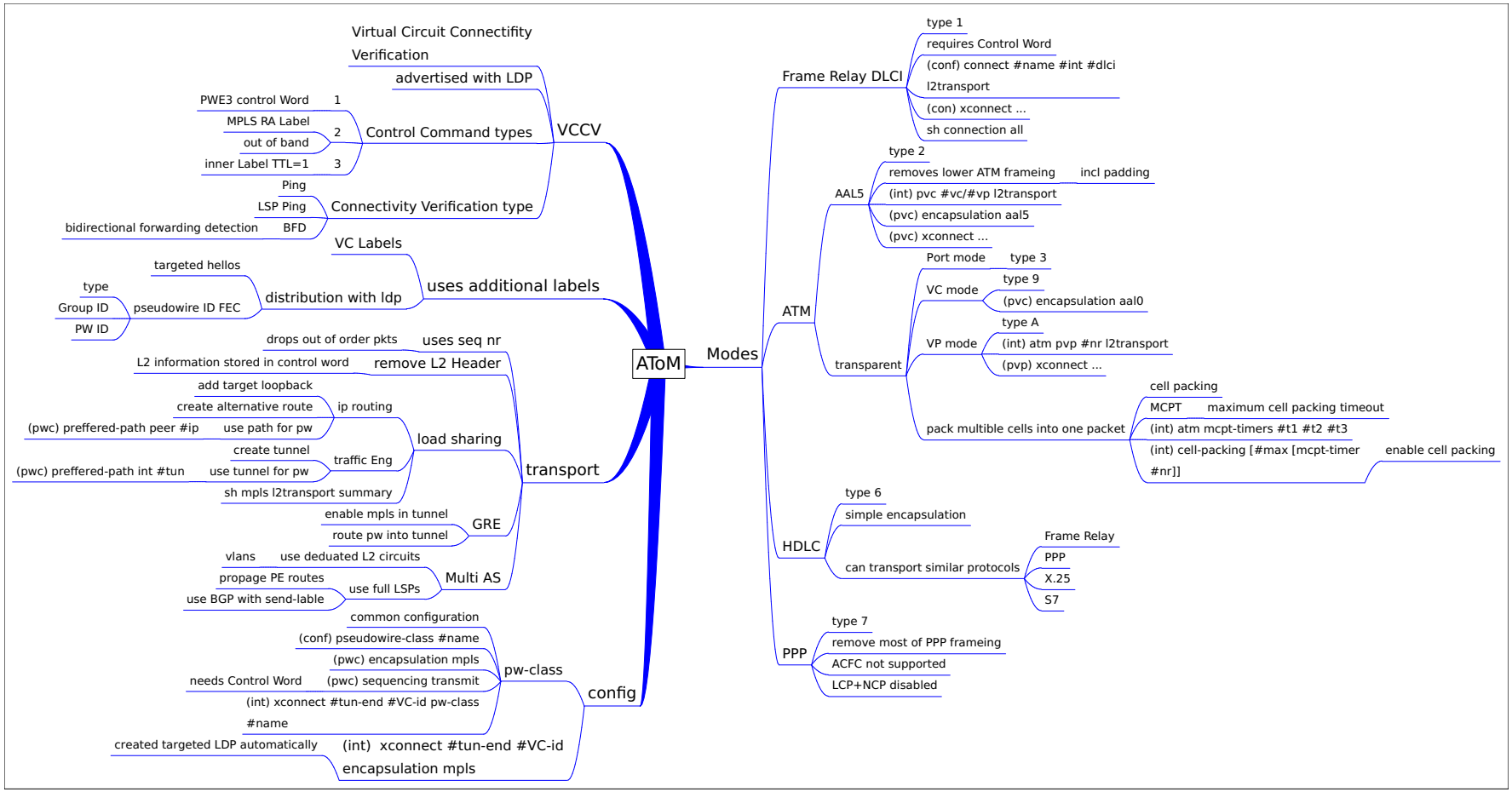
AToM
VCCV
Virtual Circuit Connectifity Verification
advertised with LDP
Control Command types
1
PWE3 control Word
2
MPLS RA Label
out of band
3
inner Label TTL=1
Connectivity Verification type
Ping
LSP Ping
BFD
bidirectional forwarding detection
uses additional labels
VC Labels
distribution with ldp
targeted hellos
pseudowire ID FEC
type
Group ID
PW ID
transport
uses seq nr
drops out of order pkts
remove L2 Header
L2 information stored in control word
load sharing
ip routing
add target loopback
create alternative route
use path for pw
(pwc) preffered-path peer #ip
traffic Eng
create tunnel
use tunnel for pw
(pwc) preffered-path int #tun
sh mpls l2transport summary
GRE
enable mpls in tunnel
route pw into tunnel
Multi AS
use deduated L2 circuits
vlans
use full LSPs
propage PE routes
use BGP with send-lable
config
pw-class
common configuration
(conf) pseudowire-class #name
(pwc) encapsulation mpls
(pwc) sequencing transmit
needs Control Word
(int) xconnect #tun-end #VC-id pw-class #name
(int) xconnect #tun-end #VC-id encapsulation mpls
created targeted LDP automatically
Modes
Frame Relay DLCI
type 1
requires Control Word
(conf) connect #name #int #dlci l2transport
(con) xconnect ...
sh connection all
ATM
AAL5
type 2
removes lower ATM frameing
incl padding
(int) pvc #vc/#vp l2transport
(pvc) encapsulation aal5
(pvc) xconnect ...
transparent
Port mode
type 3
VC mode
type 9
(pvc) encapsulation aal0
VP mode
type A
(int) atm pvp #nr l2transport
(pvp) xconnect ...
pack multible cells into one packet
cell packing
MCPT
maximum cell packing timeout
(int) atm mcpt-timers #t1 #t2 #t3
(int) cell-packing [#max [mcpt-timer #nr]]
enable cell packing
HDLC
type 6
simple encapsulation
can transport similar protocols
Frame Relay
PPP
X.25
S7
PPP
type 7
remove most of PPP frameing
ACFC not supported
LCP+NCP disabled