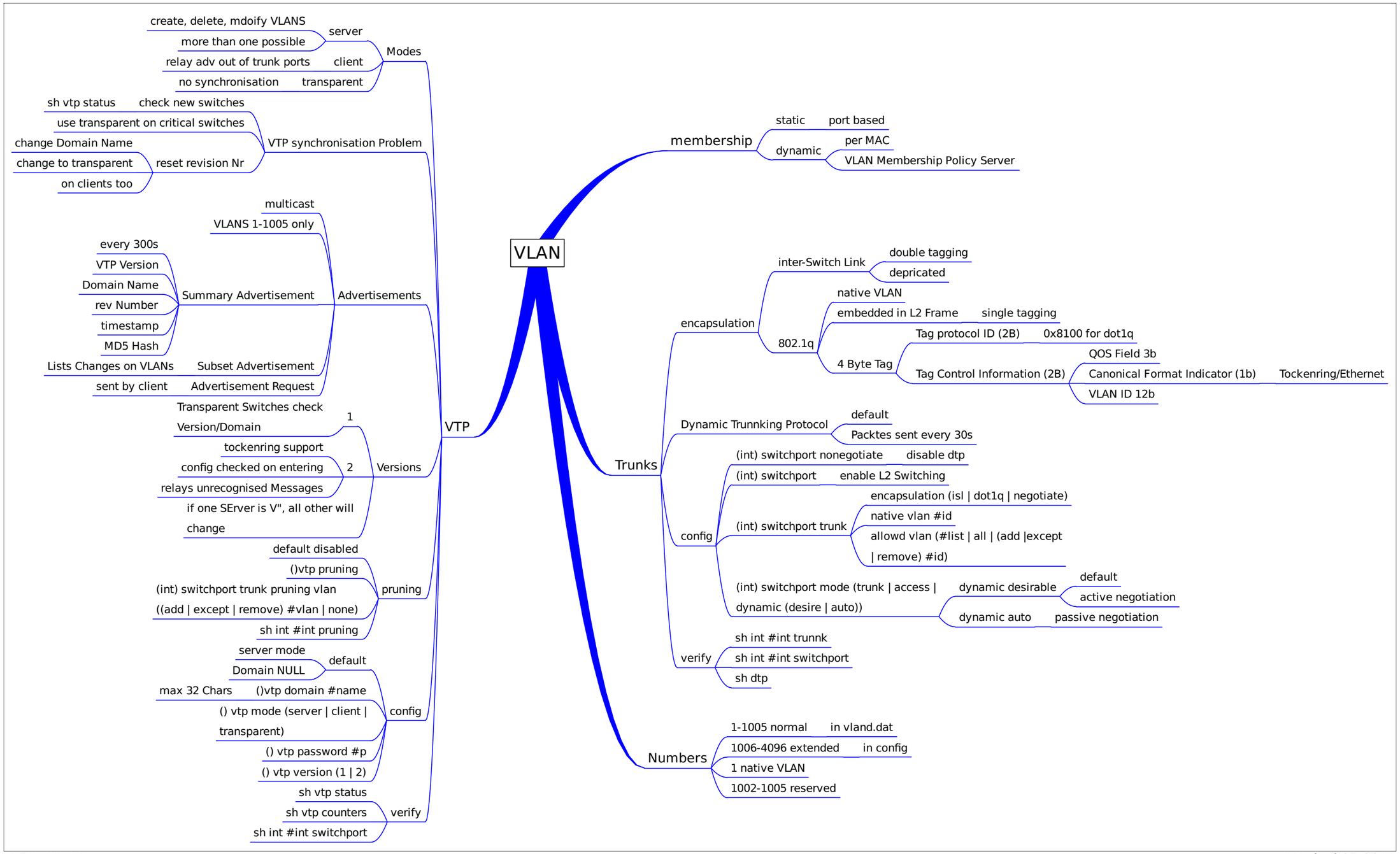
VLAN
VTP
Modes
server
create, delete, mdoify VLANS
more than one possible
client
relay adv out of trunk ports
transparent
no synchronisation
VTP synchronisation Problem
check new switches
sh vtp status
use transparent on critical switches
reset revision Nr
change Domain Name
change to transparent
on clients too
Advertisements
multicast
VLANS 1-1005 only
Summary Advertisement
every 300s
VTP Version
Domain Name
rev Number
timestamp
MD5 Hash
Subset Advertisement
Lists Changes on VLANs
Advertisement Request
sent by client
Versions
1
Transparent Switches check Version/Domain
2
tockenring support
config checked on entering
relays unrecognised Messages
if one SErver is V", all other will change
pruning
default disabled
()vtp pruning
(int) switchport trunk pruning vlan ((add | except | remove) #vlan | none)
sh int #int pruning
config
default
server mode
Domain NULL
()vtp domain #name
max 32 Chars
() vtp mode (server | client | transparent)
() vtp password #p
() vtp version (1 | 2)
verify
sh vtp status
sh vtp counters
sh int #int switchport
Trunks
membership
static
port based
dynamic
per MAC
VLAN Membership Policy Server
encapsulation
inter-Switch Link
double tagging
depricated
802.1q
native VLAN
embedded in L2 Frame
single tagging
4 Byte Tag
Tag protocol ID (2B)
0x8100 for dot1q
Tag Control Information (2B)
QOS Field 3b
Canonical Format Indicator (1b)
Tockenring/Ethernet
VLAN ID 12b
Dynamic Trunnking Protocol
default
Packtes sent every 30s
config
(int) switchport nonegotiate
disable dtp
(int) switchport
enable L2 Switching
(int) switchport trunk
encapsulation (isl | dot1q | negotiate)
native vlan #id
allowd vlan (#list | all | (add |except | remove) #id)
(int) switchport mode (trunk | access | dynamic (desire | auto))
dynamic desirable
default
active negotiation
dynamic auto
passive negotiation
verify
sh int #int trunnk
sh int #int switchport
sh dtp
Numbers
1-1005 normal
in vland.dat
1006-4096 extended
in config
1 native VLAN
1002-1005 reserved