Ether-Channel S1 – S2:
S1 Ports Fa0/2-3
S2 Ports Fa0/2-3
LACP
Ether-Channel S1 – S3:
S1 Ports Fa0/4-5
S3 Ports Fa0/2-3
PagP
Ether-Channel S2 – S3:
S2 Ports Fa0/4-5
S3 Ports Fa0/4-5
ON

NOTES:
R1 OSPF:
Designated Router
VLAN’s 10,20
Backup Designated Router
VLAN’s 30,99,250

R2 OSPF:
Designated Router
VLAN’s 30,99,250
Backup Designated Router
VLAN’s 10,20

1. All traffic from the 10.101.0.0/24 network will return to the central network by a GRE VPN tunnel of 10.105.0.0/29 and become part of the OSPF 10 Area 7 network.
2. All traffic leaving the network will leave via the HSRP virtual interfaces.
3. R1 will be the Active Router for HSRP as well as the Designated Router for OSPF for VLAN’s 10 and 20, R2 will be the Backup
4. R2 will be the Active Router for HSRP as well as the Designated Router for OSPF for VLAN’s 30, 99 and 250, R1 will be the Backup
5. Ether-Channel will be configured according to the chart above.
6. All access ports should be protected to protect spanning tree and unused should be disabled and placed into VLAN 750.
7. All other security measures applicable should be applied to all access ports.
8. Access Control Lists should be placed on all routers to protect against outside attacks as well as limit remote access to SSH or CDP.
9. All traffic should use NAT/PAT to an external addresses assigned to your company from IANA of 175.44.2.0/248
10. Use the 175.44.2.1 address as the Static NAT address of the 10.102.0.1 web server including PAT
11. Reserve three addresses for future expansion.
12. All Access addresses except for the web server should be via DHCP with a domain of jmowry.com, a lease of three days and DNS of 8.8.8.8 and 8.8.4.4