**How to Read a YAML file for Diana Dual CPE MPLS + Internet Template:**

This is a small guide to ensure that the parameters that you input into the YAML input file are going to be correctly read by Anuta.

A YAML file is an input file generated via “start.py” Jinja tool. Once a Base Template is completed for a given configuration type, it is necessary to create an input file with all the parameters that are going to be used on particular site-type.

Each parameter needs to be populated correctly, that means, it needs to have an appropriate format based on what the Anuta engine is expecting.

An Example of a YAML input file looks like this:

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**B2B\_DATA\_CIDR**: 10.118.16.232/30

**Diana\_LAN\_CIDR**: 10.1.1.0/24

**Diana\_LAN\_HSRP\_VIP**: 10.1.1.1

**Diana\_LAN\_NextHop**: 10.1.1.255

**Diana\_LAN\_Route\_Subnet**: 10.1.1.0

**Diana\_LAN\_Route\_Subnet\_Mask**: 255.255.0.0

**R1\_B2B\_IP**: 10.118.16.233

**R1\_B2B\_Interface\_Type**: SVI

**R1\_LAN\_IP**: 10.1.1.2

**R1\_LAN\_Interface**: GigabitEthernet0/0/1

**R1\_Loopback0**: 10.118.16.238

**R1\_Loopback0\_CIDR**: 10.118.16.238/32

**R1\_WAN\_Interface:** GigabitEthernet0/0/0

**R1\_WAN\_MPLS\_BGP\_AS**: 4755

**R1\_WAN\_MPLS\_PE\_IP**: 10.118.16.225

**R1\_WAN\_Primary\_Bandwidth**: 5000000

**R2\_B2B\_IP**: 10.118.16.234

**R2\_B2B\_Interface\_Type**: SVI

**R2\_EAS\_DMVPN\_Profile**: DIANA\_EAS\_AMER

**R2\_EAS\_Primary\_SG\_AS\_Number**: 65001

**R2\_EAS\_Primary\_SG\_IP**: 10.118.26.1

**R2\_EAS\_Secondary\_SG\_AS\_Number**: 65001

**R2\_EAS\_Secondary\_SG\_IP**: 10.118.26.2

**R2\_EAS\_Tunnel\_IP**: 10.118.26.23

**R2\_LAN\_IP**: 10.1.1.1

**R2\_LAN\_Interface**: GigabitEthernet0/0/1

**R2\_Loopback0**: 10.118.16.239

**R2\_Loopback0\_CIDR**: 10.118.16.239/32

**R2\_Loopback100**: 10.118.9.111

**R2\_Loopback100\_CIDR**: 10.118.9.111/32

**R2\_WAN\_Interface**: GigabitEthernet0/0/0

**R2\_WAN\_Secondary\_Bandwidth**: 6000000

**R2\_Zscaler\_Primary\_Destination\_IP**: 165.225.34.34

**R2\_Zscaler\_Primary\_Tunnel\_IP**: 172.17.60.137

**R2\_Zscaler\_Secondary\_Destination\_IP**: 104.129.200.34

**R2\_Zscaler\_Secondary\_Tunnel\_IP**: 172.17.60.141

**Zscaler\_Primary\_Node\_Tunnel\_IP**: 172.17.60.138

**Zscaler\_Secondary\_Node\_Tunnel\_IP**: 172.17.60.142

**bgp\_as**: 65211

**cpe\_primary**: SYM-MX-QUERETARO-80-G-MPLS-03-R-1

**cpe\_secondary**: SYM-MX-QUERETARO-80-G-EAS-02-R-1

**resource\_pool**: SYM-MX-QUERETARO-80

**site\_name**: SYM-MX-QUERETARO-80

**template\_file**: SYM/Greenfield-Diana-Template\_dual-cpe-site-MPLS+INET-services v2.0.frmtpl

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Here is an explanation for each of the variables used on the template:

1. **B2B\_DATA\_CIDR:** Subnet value for the non-DPS Back to Back connection between R1 and R2.
2. **Diana\_LAN\_CIDR**: Subnet value for the LAN interface between TATA routers and Diana.
3. **Diana\_LAN\_HSRP\_VIP**: IP Address value used for HSRP Virtual IP.
4. **Diana\_LAN\_NextHop:** IP Address value used as Virtual IP by Diana, this could be either a HSRP/VRRP or an Individual Address, it is used as Next Hop for Static Routes.
5. **Diana\_LAN\_Route\_Subnet**: Subnet value for the static route. Each Diana location has one single supernet assigned, this is the subnet value for that supernet without the mask.
6. **Diana\_LAN\_Route\_Subnet\_Mask:** Subnet mask value for the static route specified by Diana\_LAN\_Route\_Subnet variable.
7. **R1\_B2B\_IP:** IP address for the back to back interface on R1
8. **R1\_B2B\_Interface\_Type**: Interface Type for the back to back interface on R1. Acceptable values are SVI or Physical.
9. **R1\_LAN\_IP**: IP address for the LAN interface on R1.
10. **R1\_LAN\_Interface:** Interface Name for the LAN interface on R1.
11. **R1\_Loopback0**: IP address for Loopback 0 interface on R1.
12. **R1\_Loopback0\_CIDR**: Subnet value for Loopback 0 interface on R1.
13. **R1\_WAN\_Interface**: Interface Name for the WAN interface on R1
14. **R1\_WAN\_MPLS\_PEER\_BGP\_AS**: BGP AS number of the BGP Peer on the MPLS link, that’s PE’s AS. (i.e. 4755 for GVPN nodes)
15. **R1\_WAN\_MPLS\_PE\_IP**: IP Address of the MPLS PE, used to define R1 BGP neighbour
16. **R1\_WAN\_Primary\_Bandwidth**: Bandwidth in bps of MPLS service. Used for the Parent QoS shaper.
17. **R2\_B2B\_IP**: IP address for the back to back interface on R2.
18. **R2\_B2B\_Interface\_Type**: Interface Type for the back to back interface on R2. Acceptable values are SVI or Physical.
19. **R2\_EAS\_DMVPN\_Profile**: Profile assigned to a given site depending on region. Acceptable values are DIANA\_EAS\_AMER, DIANA\_EAS\_EMEA or DIANA\_EAS\_APAC.
20. **R2\_EAS\_Primary\_SG\_AS\_Number**: AS number for the Primary EAS GW.
21. **R2\_EAS\_Primary\_SG\_IP**: IP Address for the Primary SG gateway tunnel interface, this is the tunnel IP using private IP Addressing from Diana Management Range, not the global public IP.
22. **R2\_EAS\_Secondary\_SG\_AS\_Number**: As number for the Secondary EAS GW.
23. **R2\_EAS\_Secondary\_SG\_IP**: IP Address for the Secondary SG gateway tunnel interface, this is the tunnel IP using private IP Addressing from Diana Management Range, not the global public IP.
24. **R2\_EAS\_Tunnel\_IP**: IP Address for the EAS Tunnel interface (Tunnel 1) on R2.
25. **R2\_LAN\_IP**: IP address for the LAN interface on R2.
26. **R2\_LAN\_Interface**: Interface name for the LAN interface on R2.
27. **R2\_Loopback0**: IP address for Loopback 0 interface on R2.
28. **R2\_Loopback0\_CIDR**: Subnet value for Loopback 0 interface on R2.
29. **R2\_Loopback100**: IP address for Loopback 100 interface on R2.
30. **R2\_Loopback100\_CIDR**: Subnet value for Loopback 100 interface on R2.
31. **R2\_WAN\_Interface**: Interface name for the WAN interface on R2.
32. **R2\_WAN\_Secondary\_Bandwidth**: Bandwidth in bps of IZO/DIA service. Used for the Parent QoS shaper.
33. **R2\_Zscaler\_Primary\_Destination\_IP**: IP address (Public) for Zscaler Node, used for Primary GRE tunnel destination settings on R2.
34. **R2\_Zscaler\_Primary\_Tunnel\_IP**: IP address (Private) for Primary Zscaler GRE tunnel interface on R2.
35. **R2\_Zscaler\_Secondary\_Destination\_IP**: IP address (Public) of Zscaler Node, used for Secondary GRE tunnel destination settings on R2.
36. **R2\_Zscaler\_Secondary\_Tunnel\_IP**: IP address (Private) for Secondary Zscaler GRE tunnel interface on R2.
37. **Zscaler\_Primary\_Node\_Tunnel\_IP**: IP address (Private) for Primary Zscaler GRE tunnel interface on Zscaler Node.
38. **Zscaler\_Secondary\_Node\_Tunnel\_IP**: IP address (Private) for Secondary Zscaler GRE tunnel interface on Zscaler Node.
39. **bgp\_as**: Site BGP AS number.
40. **cpe\_primary**: R1 full hostname.
41. **cpe\_secondary**: R2 full hostname.
42. **resource\_pool**: resource pool for this site as defined on Anuta.
43. **site\_name**: Site name as defined on SFDC.
44. **template\_file**: Created automatically by start.py script.