Network Design

Base Network Address: 10.10.0.0/16

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Host requirements | Network Address | Subnet mask | First Host | Last Host | Broadcast |
| Du | 1000 | 10.10.0.0/22 | 255.255.252.0 | 10.10.0.1 | 10.10.3.254 | 10.10.3.255 |
| UAP | 500 | 10.10.4.0/23 | 255.255.254.0 | 10.10.4.1 | 10.10.5.254 | 10.10.5.255 |
| Google | 10 | 10.10.6.0/28 | 255.255.255.240 | 10.10.6.1 | 10.10.6.14 | 10.10.6.15 |
| Yahoo | 10 | 10.10.6.16/28 | 255.255.255.240 | 10.10.6.17 | 10.10.6.30 | 10.10.6.31 |
| DNS(UAP) | 6 | 10.10.6.32/29 | 255.255.255.248 | 10.10.6.33 | 10.10.6.38 | 10.10.6.39 |
| DNS(DU) | 6 | 10.10.6.40/29 | 255.255.255.248 | 10.10.6.41 | 10.10.6.46 | 10.10.6.47 |
| UCAM(web) | 4 | 10.10.6.48/29 | 255.255.255.248 | 10.10.6.49 | 10.10.6.54 | 10.10.6.55 |
| DULMS(Web) | 4 | 10.10.6.56/29 | 255.255.255.248 | 10.10.6.57 | 10.10.6.62 | 10.10.6.63 |
| Daraz | 2 | 10.10.6.64/30 | 255.255.255.252 | 10.10.6.65 | 10.10.6.66 | 10.10.6.67 |
| Evaly | 2 | 10.10.6.68/30 | 255.255.255.252 | 10.10.6.69 | 10.10.6.70 | 10.10.6.71 |
| R0-R1 | 2 |  |  |  |  |  |
| R1-R2 | 2 |  |  |  |  |  |
| R2-R3 | 2 |  |  |  |  |  |
| R3-R4 | 2 |  |  |  |  |  |
| R4-R5 | 2 |  |  |  |  |  |
| R6-R7 | 2 |  |  |  |  |  |
| R7-R8 | 2 |  |  |  |  |  |
| R8-R9 | 2 |  |  |  |  |  |
| R9-R0 | 2 |  |  |  |  |  |