**Subnetting Successful**

Major Network: **204.5.6.0/24**  
Available IP addresses in major network: **254**  
Number of IP addresses needed: **176**  
Available IP addresses in allocated subnets: **236**  
About **98%** of available major network address space is used  
About **75%** of subnetted network address space is used

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subnet Name** | **Needed Size** | **Allocated Size** | **Address** | **Mask** | **Dec Mask** | **Assignable Range** | **Broadcast** |
| **Location 1 A** | 50 | 62 | 204.5.6.0 | /26 | 255.255.255.192 | 204.5.6.1 - 204.5.6.62 | 204.5.6.63 |
| **Location 4** | 50 | 62 | 204.5.6.64 | /26 | 255.255.255.192 | 204.5.6.65 - 204.5.6.126 | 204.5.6.127 |
| **Location 1 B** | 40 | 62 | 204.5.6.128 | /26 | 255.255.255.192 | 204.5.6.129 - 204.5.6.190 | 204.5.6.191 |
| **Location 2** | 20 | 30 | 204.5.6.192 | /27 | 255.255.255.224 | 204.5.6.193 - 204.5.6.222 | 204.5.6.223 |
| **Location 3** | 10 | 14 | 204.5.6.224 | /28 | 255.255.255.240 | 204.5.6.225 - 204.5.6.238 | 204.5.6.239 |
| **WAN 1** | 2 | 2 | 204.5.6.240 | /30 | 255.255.255.252 | 204.5.6.241 - 204.5.6.242 | 204.5.6.243 |
| **WAN 2** | 2 | 2 | 204.5.6.244 | /30 | 255.255.255.252 | 204.5.6.245 - 204.5.6.246 | 204.5.6.247 |
| **WAN 3** | 2 | 2 | 204.5.6.248 | /30 | 255.255.255.252 | 204.5.6.249 - 204.5.6.250 | 204.5.6.251 |