

Viewing and Calculating Memory Usage

In general, switches are equipped with sufficient base memory to meet majority of the customer requirements. In certain high-capacity configurations, you may require additional memory. You can view system memory status through the Status->System screen. The Memory field under System Hardware displays the total amount of memory provisioned, as well as how much memory is currently free.

If you plan to use the switch in a high-capacity configuration, you should make sure that the switch has sufficient memory. The parameters affecting Contivity memory usage are:

- Stat_Mem = static memory overhead
- 1st_Tun = first member of a given tunnel type
- Sub_Tun = number of subsequent tunnels of a given tunnel type
- Total_IP_Routes_Static = number of static route entries in the IP routing table
- Total_IP_Route_RIP = number of RIP route entries in the IP routing table
- Total_IP_Route_OSPF = number of OSPF route entries in the IP routing table
- FW/NAT_Max_Connection_Number = maximum number of connections as configured from Services ->FW/NAT-> Edit page
- FW/NAT_Num_Sessions = total number of Firewall/NAT sessions
- CSIF_Enabled = 1 if CSIF (Contivity Stateful Firewall with Interface Filter) is on
- Interface_NAT_Enabled = 1 if Interface NAT is on
- Antispoofing_Enabled = 1 if Antispoofing is on
- Num_BO_NAT_Sessions = number of B.O. NAT sessions
- Number of Revoked Certificates (CRL)

Due to the complexity involved in the formula for memory calculation (that was provided with earlier release notes), we are providing a new Memory Calculator tool for ease of use. One can input the values for the number of tunnels, routes, and Firewall/NAT sessions in the Memory Calculator to find the Base Memory Recommended for one's particular configuration. Given the dynamic nature of memory usage, the result provided by the following Memory Calculator tool is only an estimate. Contact your Nortel Networks sales representative if your configuration requires additional memory.