

High Capacity Counters

What are High Capacity Counters?

Since the advent of faster and faster network interfaces, SNMP's original use of 32 bits for counters has become somewhat outdated. As a counter of network throughput in bytes, a 32bit counter can only count up to ~4GB before rolling back to zero. On a very fast interface, the counter may reset before it can be read again.

High Capacity Counters are designed to solve this issue by increasing counters from 32-bit (maximum of 4,294,967,295 bytes) to 64-bit (maximum of 9,223,372,036,854,775,807 bytes).

How does PeakHour use them?

If PeakHour detects that your router supports High Capacity (64-bit) counters, it will automatically use them to measure throughput. This will result in more accurate usage while your Mac is asleep or switched off.

PeakHour will indicate if it has detected 64-bit counters via the Summary view in the Targets tab:

High Capacity Counters Detected?	
Yes	High Capacity Counters Yes
No	High Capacity Counters No

For more information on High Capacity Counters, see the 2nd question of this FAQ: [SNMP Counters: Frequently Asked Questions \[cisco.com\]](#)