**Networking Document**

Description

This data class provides information about the network adapters enumerated in the device.

Implementation

Network Traffic -

To calculate network traffic we use getifaddrs() from ifaddrs.h and loop all the ifa\_data to calculate the amount of traffic data through the variables ifa\_data->ifi\_obytes and ifa\_data->ifi\_oibytes.

During reboot the amount of these variable resets. The problem is when the device consume traffic data greater than 4gb, since these variables res, being of type u\_int32\_t the counter overflows.

<https://developer.apple.com/forums/thread/66542?answerId=191824022#191824022>

Another way to calculate the network traffic is using sysctl and the routing socket. But it is difficult to calculate the data traffic of each interface. It gives total number of bytes sent and received by the system.

<https://stackoverflow.com/questions/1126790/how-to-get-network-adapter-stats-in-linux-mac-osx/1385692#1385692>