The cost of the ewon's data consumption

How to calculate the data consumption of my eWON over a GPRS connection?
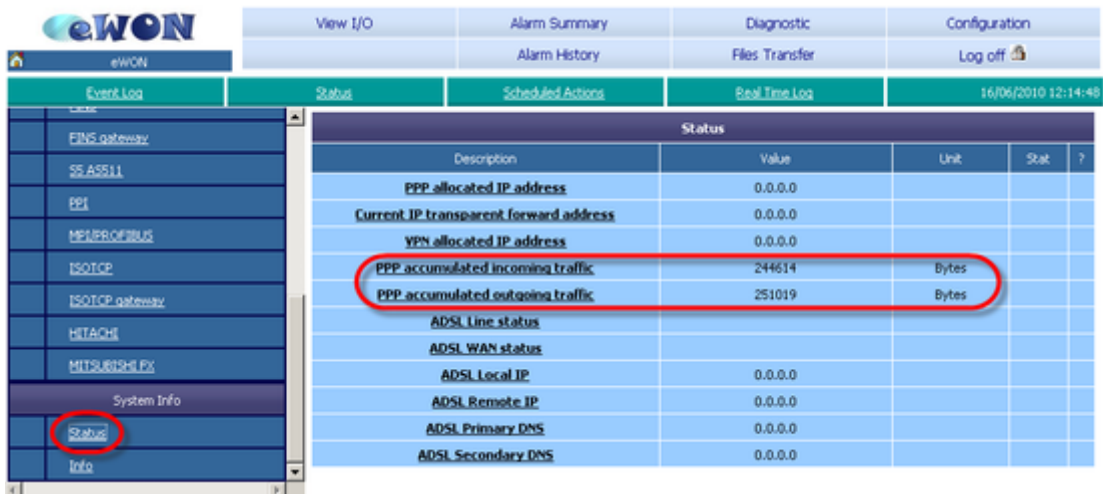
We need to consider 3 kinds of data:

1. the applicative data

2. the VPN channel keep-alive data

3. unwanted traffic

1. Applicative data

To measure your applicative communication costs, you can use the traffic volume counters on the Status Page
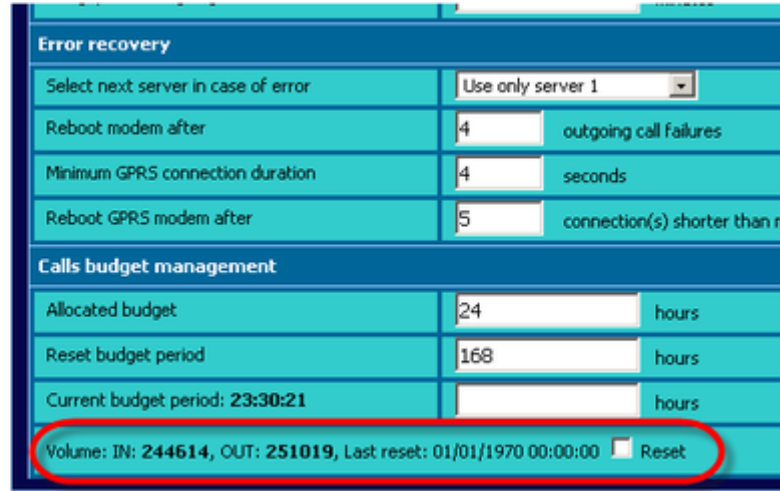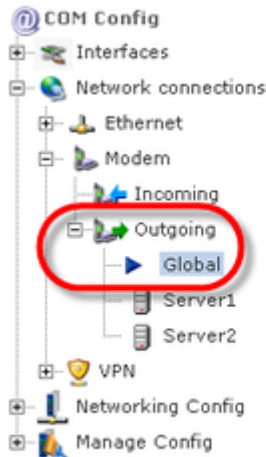
```
Diagnostic->Status->Status
```


also on the page PPPOutgoingConnection

```
SystemSetup->Communication->NetworkConnections->Modem->Outgoing-
>Global
```

These two counters (IN & OUT) are updated by the eWON at the end of each communications and every 10 minutes during communication.

These counters are cumulatives and retentives. They count every PPP connections and they are stored in Flash.

Then they are not reset at each connection or by a PowerOff.

These counters could be read by Basic with:

```
SETSYS INF,"load"
a$ = GETSYS INF,"PPPClIn"
b$ = GETSYS INF,"PPPClOut"
PRINT a$;" ";b$
```

2. Keep-alive

The VPN connection maintains the communication channel open with some Keep-Alive packets. So, even if you don't really communicate through the VPN tunnel, just being connected to the VPN server will cost something (on GPRS).

In one day, this keep-alive generates around 1.6 MB of data for UDP protocol and around 3.2 MB if using TCP protocol. It also depends on which keep-alive settings are applied.

See Talk2M_Keep_Alive_communication_costs for the computation for Talk2M connections.

- Note -

Communicating in TCP will always use more transmissions than in UDP because TCP is a connection-oriented transmission and UDP is a connectionless transmission.

3. Unwanted Traffic

Keep in mind that with a GPRS (or every VolumeContract), each bytes reaching the eWON will be charged by your Provider. Then, even if your eWON is secured (use discard WAN except VPN in Security page), every access (or try to access) to the eWON is a communication, and then charged.

Then, leave an eWON-GPRS permanently connected to Internet is safe because eWON will protect you from Hackers but these attacks could cost you some money.

Revision

Revision History

Revision Level	Date	Description
1.0	18/06/2014	Creation of document
1.2	27/01/2016	Update of the data consumption

Document build number: 25

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