HowTo – Log traffic

This HowTo describes how you can log and evaluate the traffic on an interface. This is done with the LTE-modem (interface: wwan0).

> ATTENTION!
> ➢ TDT GmbH assume no liability for validity of the collected traffic and data.

> Note
> ➢ A SCP tool e.g. the open-source tool »WinSCP« is neccessary to upload the files. »WinSCP« can be downloaded free of charge from http://winscp.net.

1 File upload

1. Download ***Tools_TDT-Trafficlogger.zip*** from our website tdt.de. www.tdt.de/go2/trafficlogger
2. Extract the data to your local computer.
3. Connect to the router using a »SCP-Client« (User ***root*** Password ***tdt***).
4. Switch to directory ***/etc***, and create, if not already exists, a new directory named ***scripts*** here.
5. Create a new folder named ***trafficlogger*** there.
6. Copy the files from Trafficlogger.zip into the folder ***trafficlogger***.
7. Mark the files and change to ***Properties*** dialog by right-clicking.
8. For executable files select the ***X*** checkboxes (octal: 0755) in **Permissions:** and save the changes by pressing ***[OK]*** .

2 Start Trafficlogger

For autoloading the trafficlogger after booting the router you need to create a cronjob.

To create a new cronjob, log in to the webinterface of the router and go to ***System > Scheduled Cron Jobs***.

1. By clicking ***Create a new scheduled cron job*** you can add a new cron job.
2. Enter ***root*** as user at **Execute cron job as**.
3. At **Command** enter the path with its parameters.

> Syntax für Command
> ***/etc/scripts/trafficlogger/trafficlogger.pl INTERFACE TIME***

Replace the parameter ***INTERFACE*** with the interface which you want to scan.
The parameter ***TIME*** are the seconds for checking the chosen interface if any changes in traffic happened (Advice: 60 seconds).

4. Select the radiobutton ***Simple schedule*** at `When to Execute` and ***When system boots*** in the dropdown.

Figure 1: Example for a trafficlogger at wwan0 Cron Job

5. With ***[Create]*** a new cronjob will be created.

Now, please do a ***Permanent Save > Save Config and*** *reboot the router.*

> ATTENTION!!!
> ➢ If the reboot ist done by a fource reboot (reboot –f) or by draining power all minuted data will be lost!

> Note
> ➢ The router stores the gathered statistics each day in /var/log/trafficlogger

3 Evaluation of the collected traffic data

The current traffic consumption can be evaluated at runtime.

Therefor cal the script ***/etc/scripts/trafficlogger/gettrafficstatistics.pl*** in the webinterface under ***Diagnose > Running Processes > Display: Run.. > Command to run*** and regulate them with the following parameters.

You can call the evaluation via shell (SSH), too.

Command	Explanation
-i	(Interfaces) Declaration of the iterfaces
-sd	(Startdate) Declaration oft he startdate. Format:ddmmyy **(Declaration of –ed necessary!)**
-ed	(Enddate) Declaration of the enddate. Format:ddmmyy **(Declaration of –sd necessary!)**

Command	Explanation
-maxrtx MB	Declaration of the threshold If this threshold is reached, the free configurable script ***action.pl*** is executed.
-d	(Date) Can be used if you want a special date/day. Format:ddmmyy
-t	(Times) Ensures that the output is generated n-times.
-s	(Seconds) Optional for –t
-o	(Output-Type) Defines the output type exactly. Options MB(yte) or GB(yte)

Example: Evaluation of the LTE-Modem from 1. - 31. January 2013
/etc/scripts/trafficlogger/gettrafficstatistics.pl -i wwan0 -sd 010113 -ed 310113

3.1 Cronjob for the evaluation and action control

By a cronjob the evaluation can be done automatically. The commands in the script ***action.pl*** will be executed. These commands could be sending information via email, getting extra data volume or an automatically change between the two SIM-cards.

Note
- The functions named above don't be part of the product contents. If you are interested in it, please contact the TDT Expert Support.

Example Command
/etc/scripts/trafficlogger/gettrafficstatistics.pl -i wwan0 -sd 011112 -ed 301112 -maxrtx 5000 -silent

4 Finish configuration

To finish the configuration procedure it is necessary to save all changes permanently. Therefore navigate to ***Permanent Save*** and press ***Save Config***.

Important!
- If this step is not performed, the settings are lost when the router is rebooted.