TUN is a standard Linux network stack feature, which allows the application to add an interface (physical/virtual device) for data communication. The TUN interface of this solution allows to tap the IP frame from the network stack, feed it to the HAPI interface and sends it to Talaria TWO over SPI/SDIO.

|  |  |
| --- | --- |
| **Command** | **Description** |
| *./tunadapter* | Ready to accept connection manager commands and socket application. |

Table 5: TUN Adapter - command description

A screenshot of a computer

Description automatically generated

Figure 4: ./tunadapter

The tunadapter has the following optional command line arguments:

|  |  |
| --- | --- |
| **Options** | **Description** |
| *if\_freq=<frequency>* | Optional. If not specified, tunadapter uses the optimal best frequency.  For example: $ ./tunadapter if\_freq=25000000 configures frequency as 25MHz.  **Note**: if\_freq is not supported for SDIO interface. |
| *wifi\_con\_offload=<1|0>* | Wi-Fi connect/disconnect offloaded to Talaria TWO  1= Wi-Fi handled at Talaria TWO  0= Wi-Fi handled at Host  For example: $ ./tunadapter wifi\_con\_offload=0 |
| *tos=<tos value>* | Sets tos (type of service) for the network packet.  For example: $./tunadapter tos=160& starts the tunadpater with video. |
| *board\_conf=<board\_conf\_file>* | Specifies the board specific configuration to be used.  For example: $./tunadapter board\_conf=../xxx.conf wifi\_con\_offload=1 heartbeat=1 |
| *heartbeat=<1|0>* | Enables/Disables heartbeat to detect Talaria TWO crash.  For example: ./tunadapter heartbeat=1. |

Table 6: tunadapter - optional command line arguments