Open Source IMS Client - Feature #5481

SIM card interface for doubango

03/07/2022 10:53 AM - laforge

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**Description**

The pre-existing doubango library code assumes that the IMS client has knowledge of the secret key material (K + OP/OPc) in order to perform the authentication and IPsec key establishment to the P-CSCF.

This may be the case in some testing/lab setups, but in general this key material is stored on the ISIM or USIM application of a SIM card.

If we want to use doubango with such standard cards, we need some kind of interface how doubango can perform authentication via ISIM/USIM.

The interface should be rather generic, as the detailed interface for SIM access will be highly platform specific:

- For development on a normal Linux laptop, a pcsc-lite based interface to a smart card reader will be used.
- For execution inside a specific phone, phone specific interfaces for SIM card access may be used (QMI, AT+CSIM, ...)

**Related issues:**

- Related to Open Source IMS Client - Feature #5482: VoWiFi client for creating... New 03/07/2022

**History**

**#1 - 03/07/2022 11:08 AM - laforge**

- Related to Feature #5482: VoWiFi client for creating [outer] IPsec tunnel to ePDG added

**#2 - 03/07/2022 03:08 PM - laforge**

So doubango has what it calls tinyHTTP for HTTP server and client mode. Maybe this is an option for adding an HTTP/REST style interface to perform the AKA via an external "SIM interface provider".