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SSC Tester

DECT Forum – DECT Security Step C Tester

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DECT security

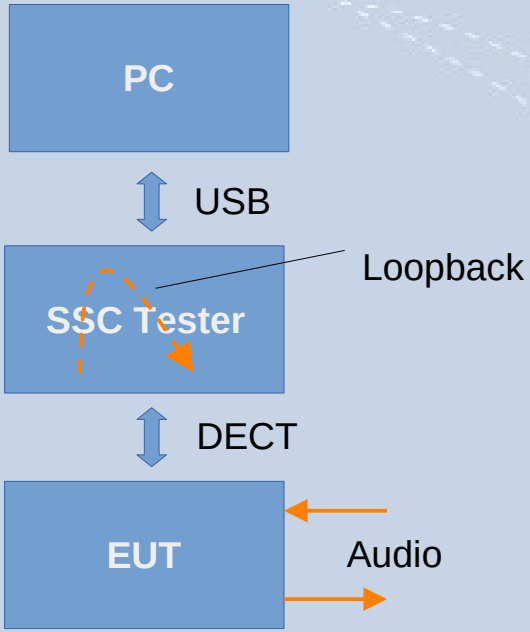
History

- Original DECT standard security
- The deDECTed “storm”
- Step A – First measures – Early encryption, re-keying
- Step B – DSAA2 introduction
- Step C – DSC2 introduction

SSC Tester

- **Solution to validade security step C comformity as defined in**
  - **GAP (ETSI EN 300 444) version 2.5.1, 2017-10**
    and
  - **ETSI EN 300 175-7 version 2.9.1, 2022-03**
- **Requirements**
  - **SSC Tester Device**
  - **SSC Control Application**
  - **Standard Windows PC with USB**

SSC Tester setup



Note: A way to verify/compare the audio samples sent to and received from the EUT is required

SSC Tester Device

- HID device – no driver required
- Power and control through USB
- Availibility upon consultation from the DECT Forum

SSC Control Application

- **SSC Control Application**
  - **Configurable for PP and FP EUTs**
  - **Tested in Windows 10**
  - **Error conditions as per standards document**
  - **Test session log**

Flexibility

- The SSC tester shall loopback audio independently of the used codec
- Full-slot and Long-slot are supported

DECT Forum Step C Tester - Ver 0.1

Device Select

- [ ] Fixed Part
- [x] Portable Part

Hardware:

ID: 03 56 A0 07 B8

Version: 0.0.1

Log

- [x] App messages
- [x] Tx commands
- [ ] Rx CFM messages
- [x] Rx result messages
- [ ] Rx hex messages
- [ ] Tx hex messages

Commands

Register

Pin: 5628

Setup

REGISTERED

ID: 00 03 35 B0

Device status

READY

CONNECTED

Reconnect

```
APP : Device connected
Tx  : READY command sent (API_READY_REQ)
APP : Device Ready
Tx  : REGISTER command sent (API_REGISTER_REQ)
REP : [NET] Access rights with DSAA Authentication requested by PP
REP : [NET] DSAA2 terminal capability not supported by PP
REP : [NET] DSC2 terminal capability not supported by PP
REP : [NET] DSAA2 terminal capability not supported by PP
REP : [NET] DSC2 terminal capability not supported by PP
```

Clear

Save log to file

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Timelines and availibility

- Ongoing development
- Expected a Beta version by the end of October
- Availibility of qualification services before end of Q4

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Thank you !

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Enjoy what technology can bring you!