

## Bisskey using the SMiT BISS CAM



The TDX software 4.5.1.39324 ( and following softwares) support the Bisskey de-scrambling.

The TDX feature is only tested using the **Quattro CAM** and the **Smit CAM** – other Bisskey CAM's might not be supported.

This article describes, how to setup Bisskey on the TDX using the **SMiT BISS CAM**.  
**If you need a guide for the Quattro CAM :** [Bisskey using the Quattro CAM](#)

(To convert the Bisskey from Hex to Dec , you can use the attached Bisskey calculator).

### Before you start

Unlike the Quattro 4x4, the SMiT Biss is capable of Bisskey being entered in Hexadecimal or Decimal.

- Bullet point 3a describes how to enter the Bisskey in **Hexadecimal**
- Bullet point 3b describes how to enter the Bisskey in **Decimal**

You might need to familiarize yourself with the conversion from hexadecimal to decimal.  
Bullet point 2a gives you an example on how to do this.

### 1. Check the web for new Biss keys

(ex. <https://sattotalinfo.blogspot.dk/2017/03/astra-4a-48-e-sirius-biss-cod-channel.html>)

TV channel	Options	Biss Key	Service ID
TET	11766H, sr: 27500, fec: 3/4	19 09 06 28 11 76 60 E7	17DE
2 + 2	11766H, sr: 27500, fec: 3/4	09 02 19 24 63 23 06 8C	17E8
1 + 1 International	11766H, sr: 27500, fec: 3/4	1A 2B 3C 81 4D 5E 6F 1A	17ED
TRK Ukraina	12130 V, sr: 27500, fec: 3/4	A5 B2 EB 22 57 6F 50 16	19D2
UFO TV	12130 V, sr: 27500, fec: 3/4	The A5 B2 EB 22 57 25 6F EB	1A18
Inter +	12284 V, sr: 27500, fec: 3/4	12 34 12 34 AC F2 AC F2	1B4E
Sinema TV Aksiyon	12687 H, sr: 5600, fec: 3/4	AD A8 CC 77 64 17 11 8C	0640
Sinema TV Ask	12687 H, sr: 5600, fec: 3/4	92 AF B6 F7 DD AA 00 87	06A4

In this example, I want to watch "1 + 1 International" from Astra 4A, with the Bisskey: 1A 2B 3C 81 4D 5E 6F 1A. This key is in Hexadecimal values.

**NOTE:** There are 8 segments and this CA module requires 8 segments.

Segment 4 and 8 are control numbers. (1A + 2B + 3C = 81 and 4D + 5E + 6F = 11A which is 1A when using 2 char.)

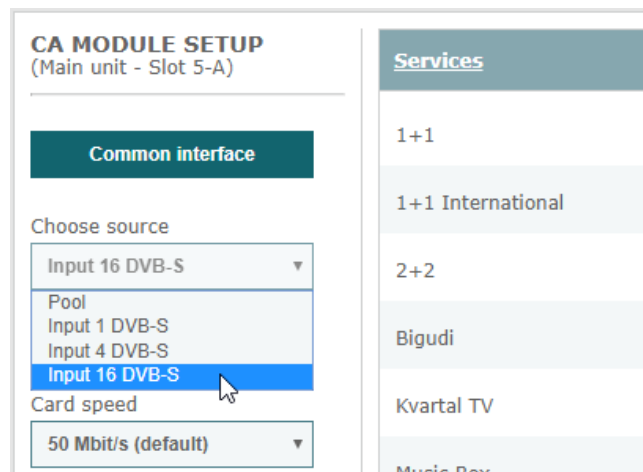
If the Bisskey only have 6 segments, you must calculate the 4th and 8th segment.

## 2. Setting up the TDX for SMiT BISS CAM

The first you need to do, is configure the TDX for descrambling with the SMiT BISS CAM.

The CAM must be configured to, what we refer to as "Transparent mode".

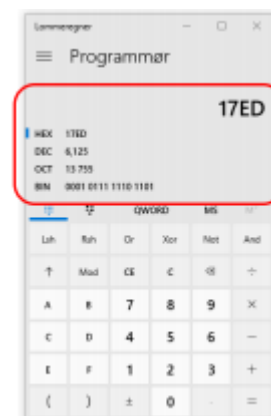
1. Go to the CA settings on the TDX
2. Click the settings icon, on the BISS module
3. In the 'Choose source', select the correct input module. This is the module, where you are receiving the scrambled service (Here I must select "Input 16 DVB-S").
4. Checkmark the services you want to descrambled, from the the servicelist. **The SMiT BISS supports 4 services.**
5. Note the SID for the services - you will need them later on! I have selected "6125"



### 2a. Converting to and from Hexadecimal / Decimal

Using the calculator that comes with MicroSoft Windows 10 (Linux distros and Apple macOS have a similar calculator).

1. Select the "Programmer" mode
2. Select whether the number to be entered is Hex, Dec, Oct or Bin.
3. Enter the value ( ie. Hex "17ed" )
4. Read the converted value ( Dec "6125" )



### 3a. Entering the Bisskey in HEX *(for DEC, see further down, in 3b.)*

Next step is entering the Bisskey, enabling the descrambling of the service. **This is how it's done in Hexadecimal**

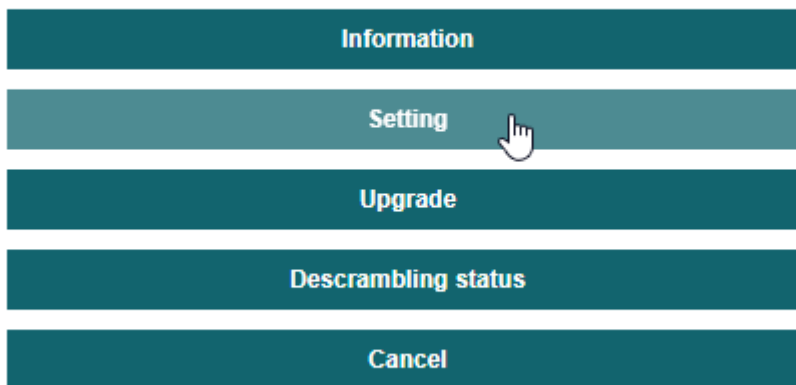
1. Click on "Common interface" in the CA menu, for the SMiT BISS CAM. **NOTE:** You are now entering the menu, hosted by the SMiT CA module!



2. In the "Main menu", click "Setting"

**BISS**

Main menu

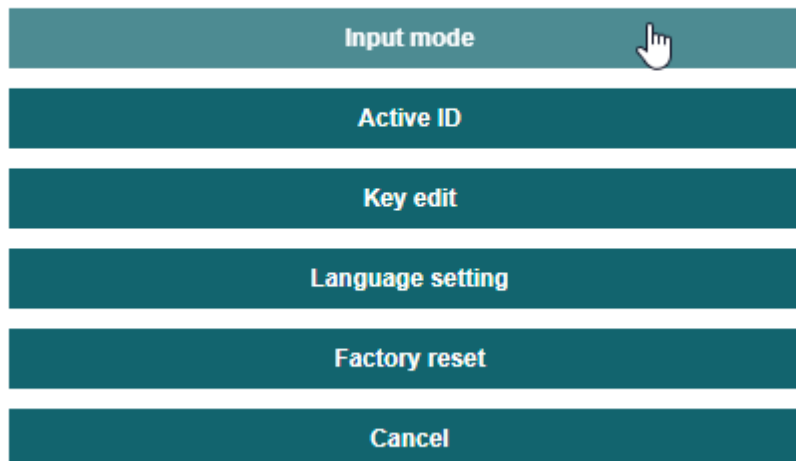


Press 'OK' to confirm, 'EXIT' to quit

3. Click "Input mode"

**BISS**

Setting

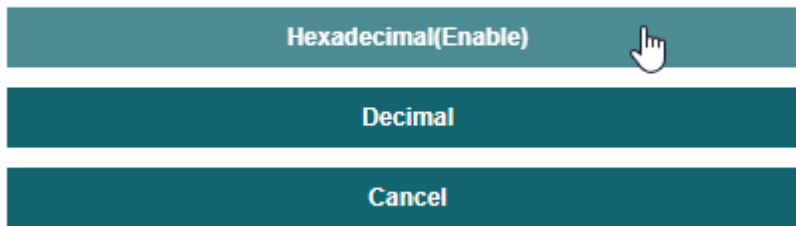


Press 'OK' to confirm, 'EXIT' to quit

- Click "Hexadecimal" and the "Cancel" to exit the menu.

**BISS**

Please choose an input mode to use

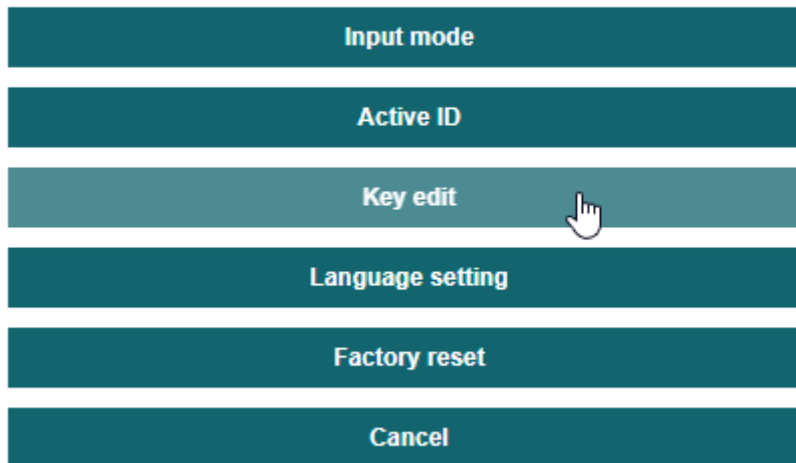


Press 'OK' to confirm, 'EXIT' to quit

- Click "Key edit"

**BISS**

Setting

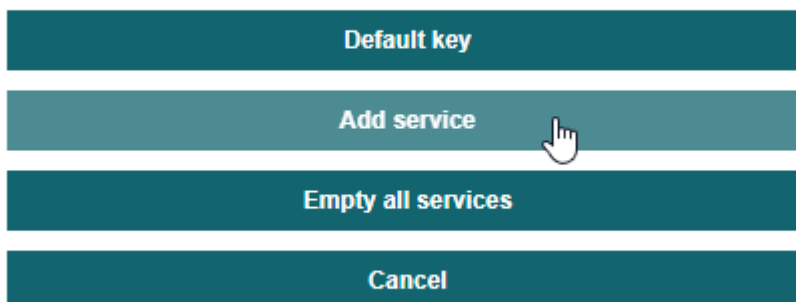


Press 'OK' to confirm, 'EXIT' to quit

- Click "Add service"

**BISS**

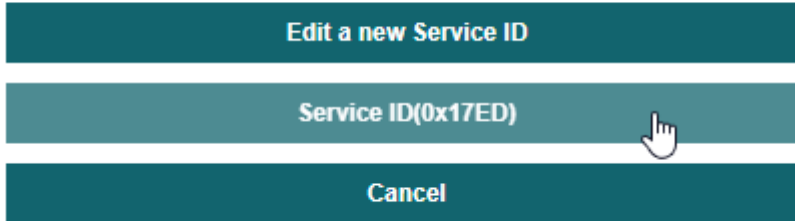
Key edit



Press 'OK' to confirm, 'EXIT' to quit

7. Select the service you wish to add the Bisskey for. Now you need to convert from Decimal to Hexadecimal, to get the SID in Hexadecimal. Here I have to select "Service ID(0x17ED)"  
**BISS**

Please edit or select a new Service ID

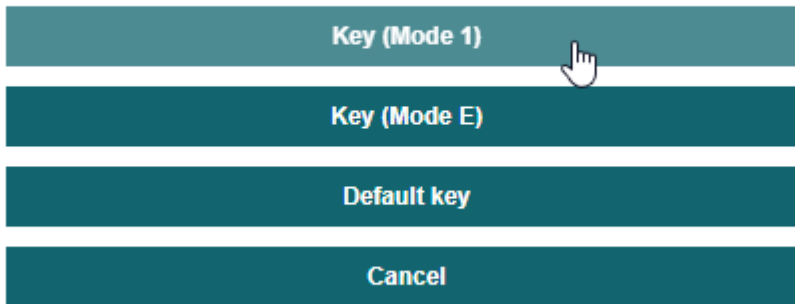


Press 'OK' to confirm, 'EXIT' to quit

8. Select "Key (Mode 1)"

**BISS**

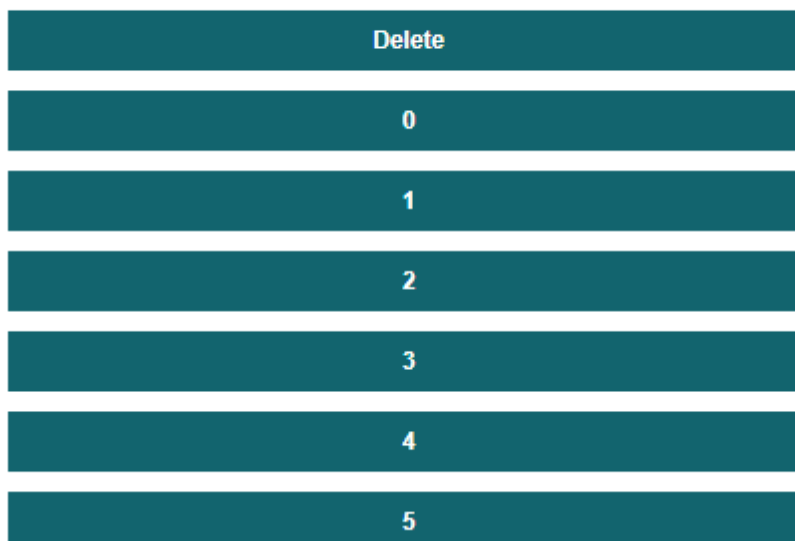
Edit service(0x17ED) key or use default key



Press 'OK' to confirm, 'EXIT' to quit

9. Enter the Bisskey, by clicking on the fields 0-9 and A-F  
**BISS**

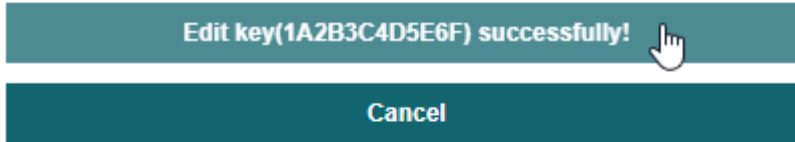
Key(Mode 1): XXXXXXXXXXXXX



10. I have entered my Bisskey as **1A 2B 3C 4D 5E 6F** - skipping the control numbers. Remember the original bisskey? (**1A 2B 3C 81 4D 5E 6F 1A**). Click the "Edit key successfully" to return.

**BISS**

Value edit

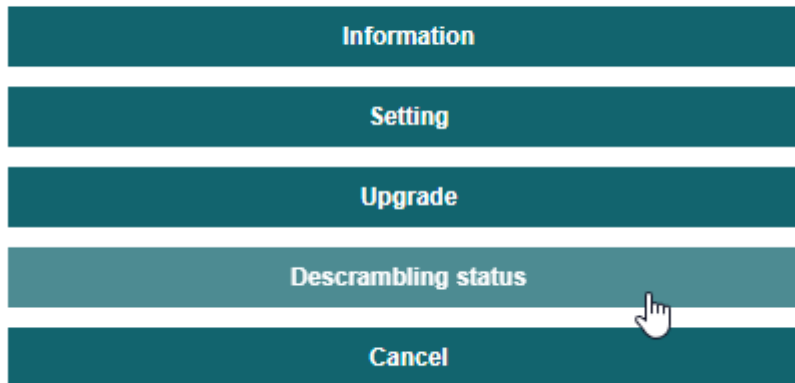


Press 'OK' to confirm, 'EXIT' to quit

11. Click "Cancel" (2x) and click the button called "Descrambling status" status",

**BISS**

Main menu

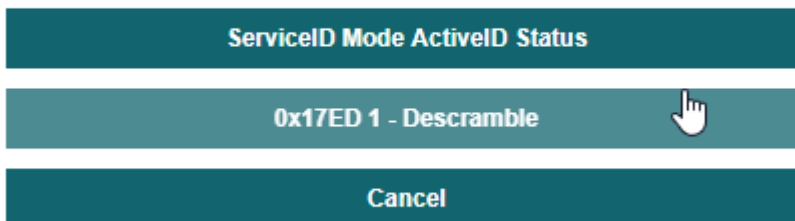


Press 'OK' to confirm, 'EXIT' to quit

12. "0x17ED 1 - Descramble" indicates, that the service is being descrambled.

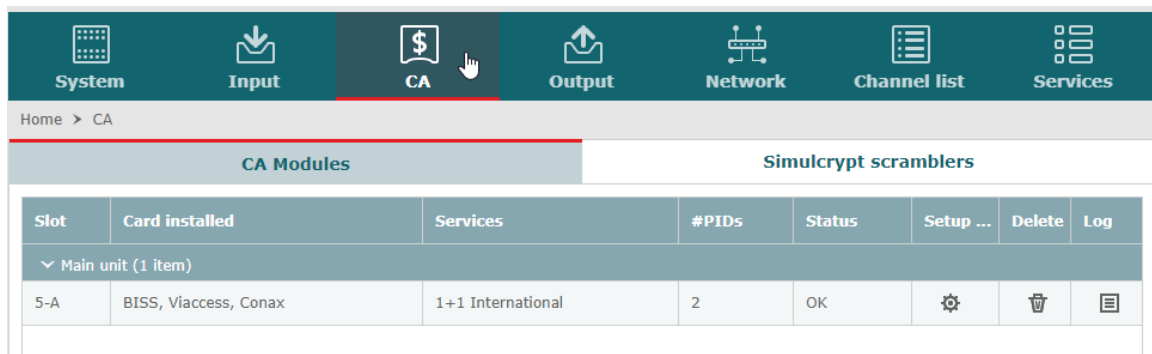
**BISS**

Descrambling status



Press 'OK' to confirm, 'EXIT' to quit

13. Click the "CA" menu, in the TDX top menu bar. The status of my SMiT BISS CAM er in "OK"



### 3b. Entering the Bisskey in DEC (for HEX, see above, in 3a.)

Next step is entering the Bisskey, enabling the descrambling of the service. **This is how it's done in Decimal**

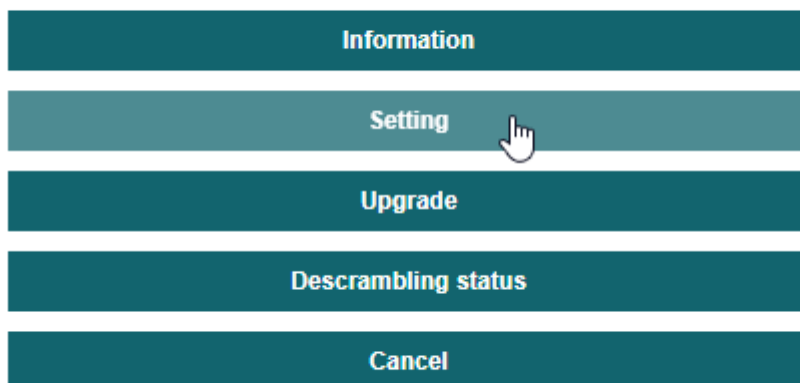
1. Click on "Common interface" in the CA menu, for the SMiT BISS CAM. **NOTE:** You are now entering the menu, hosted by the SMiT CA module!



2. In the "Main menu", click "Setting"

#### BISS

Main menu

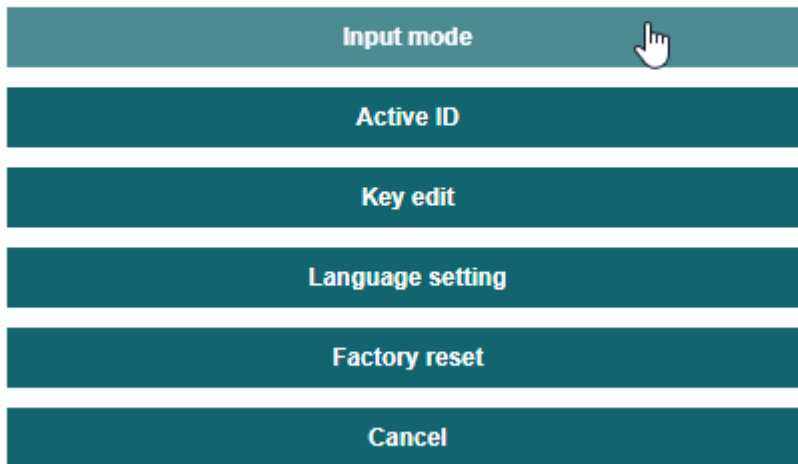


Press 'OK' to confirm, 'EXIT' to quit

3. Click "Input mode"

**BISS**

Setting

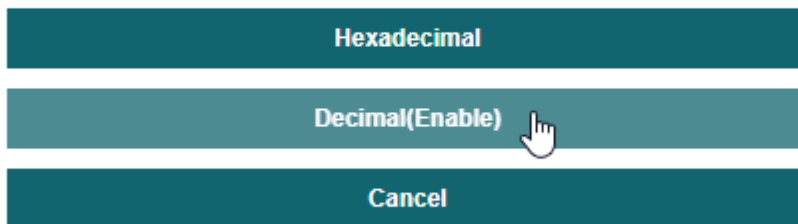


Press 'OK' to confirm, 'EXIT' to quit

4. Click "Hexadecimal" and the "Cancel" to exit the menu.

**BISS**

Please choose an input mode to use

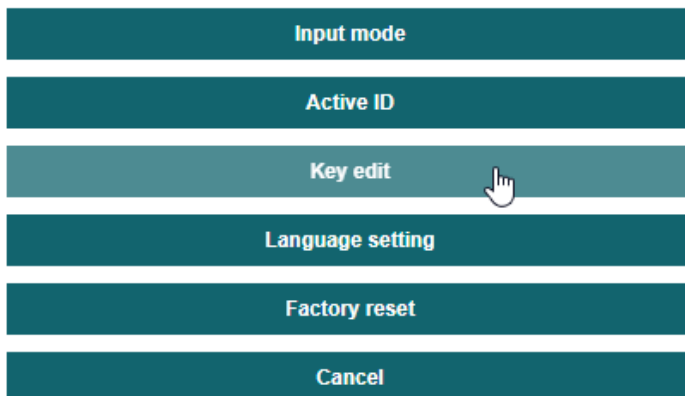


Press 'OK' to confirm, 'EXIT' to quit

5. Click "Key edit"

**BISS**

Setting



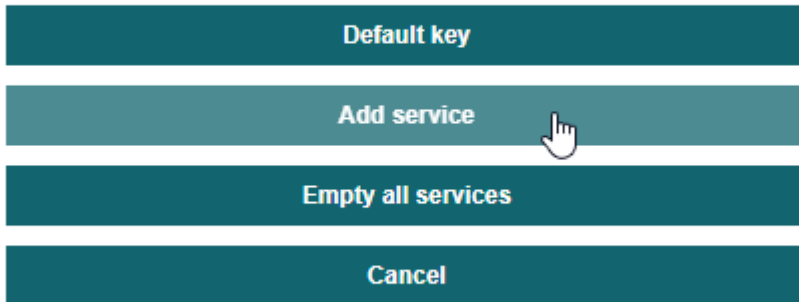
Press 'OK' to confirm, 'EXIT' to quit



6. Click "Add service

**BISS**

Key edit

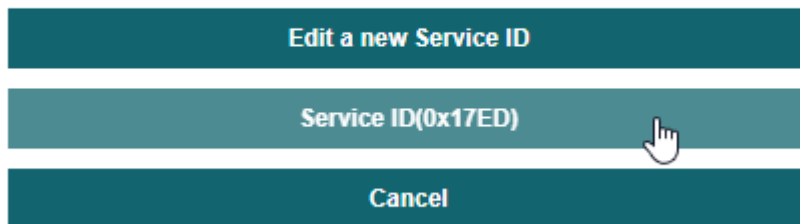


Press 'OK' to confirm, 'EXIT' to quit

6. Select the service you wish to add the Bisskey for. Now you need to convert from Decimal to Hexadecimal, to get the SID in Hexadecimal. Here I have to select "Service ID(0x17ED)"

**BISS**

Please edit or select a new Service ID

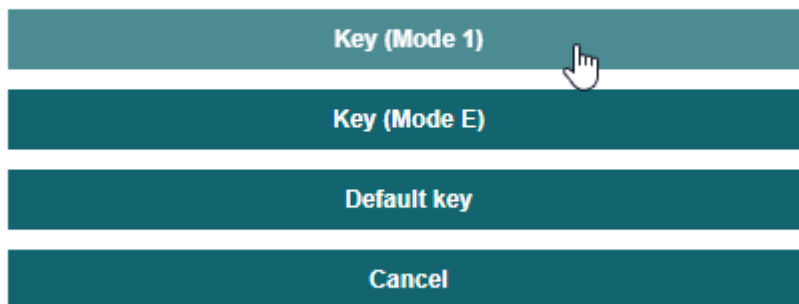


Press 'OK' to confirm, 'EXIT' to quit

8. Select "Key (Mode 1)"

**BISS**

Edit service(0x17ED) key or use default key

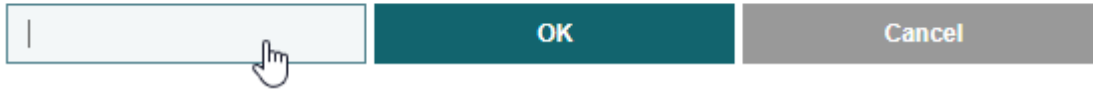


Press 'OK' to confirm, 'EXIT' to quit

9. Enter the Bisskey in the text field.

### BISS

Please enter BISS 1 key(18 digits) in decimal:



A screenshot of a user interface for entering a BISS key. It features a light gray rectangular input field on the left with a vertical cursor line and a hand icon pointing to it. To the right of the input field are two buttons: a dark teal button labeled 'OK' and a gray button labeled 'Cancel'.

10. I have entered my Bisskey as **026043060077094111** Remember the original bisskey? (**1A 2B 3C 81 4D 5E 6F 1A**). I converted 1A 2B 3C 4D 5E 6F too 026 043 060 077 094 111). You can use the attached converter, to accomplish this. Note, the GUI converts the decimals you entered, to hexadecimal - this gives you the opportunity to check the entered value. Click the "Edit key successfully" to return.

### BISS

Value edit



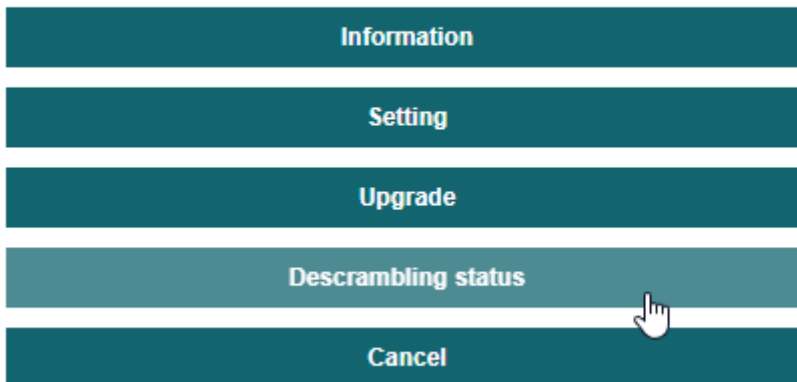
A screenshot of a confirmation dialog box. It consists of two stacked buttons. The top button is dark teal and contains the text 'Edit key(1A2B3C4D5E6F) successfully!' with a hand icon pointing to it. The bottom button is also dark teal and contains the text 'Cancel'.

Press 'OK' to confirm, 'EXIT' to quit

11. Click "Cancel" (2x) until you see a button called "Descrambling status", click

### BISS

Main menu



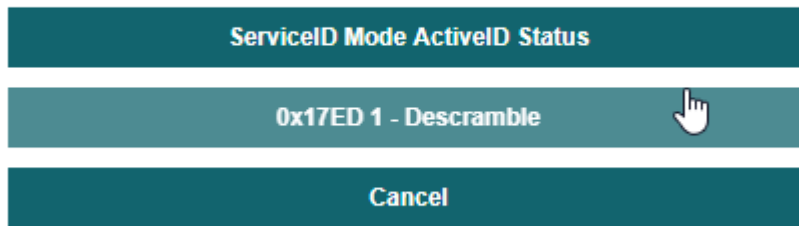
A screenshot of a main menu interface. It features five stacked, dark teal buttons. From top to bottom, the buttons are labeled: 'Information', 'Setting', 'Upgrade', 'Descrambling status', and 'Cancel'. A hand icon is pointing to the 'Descrambling status' button.

it" Press 'OK' to confirm, 'EXIT' to quit

12. "0x17ED 1 - Descramble" indicates, that the service is being descrambled.

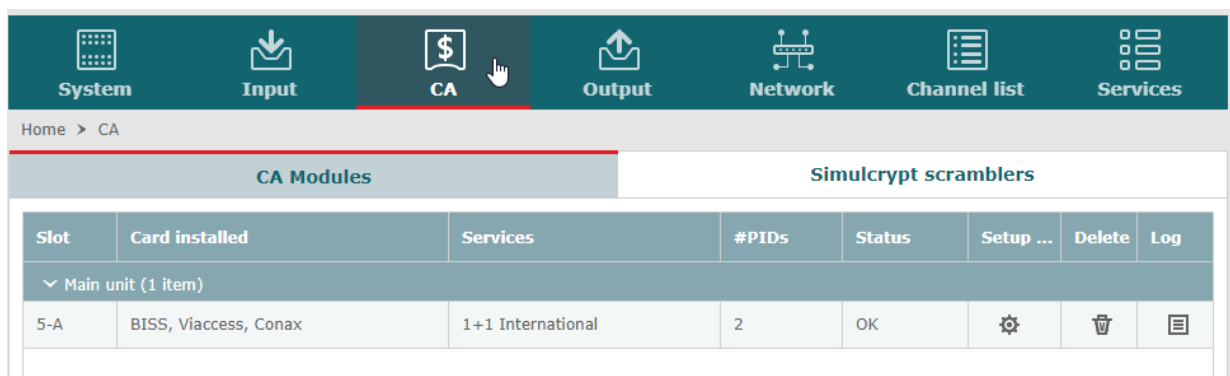
## BISS

### Descrambling status



Press 'OK' to confirm, 'EXIT' to quit

13. Click the "CA" menu, in the TDX top menu bar. The status of my SMiT BISS CAM er in "OK"



## Final notes

The SMiT card gives you the option to enter the Bisskey in decimal or hexadecimal. Entering it, in decimal is the fastest, when you have done the conversion correct. When you have the right decimal number, you can just copy 'n' paste the value into the textfield.