

TDX and BissKey feature

Bisskey feature added in TDX software ver. 4.5.1.39324

This guide only applies to CA-Module : Quattro 4X4



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:

Bisskey: 1a 2b 3c 81 4d 5e 6f 1a (Hex values)

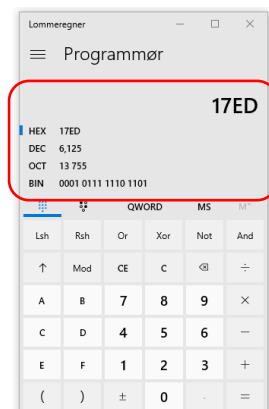
Note: there are 8 segments and this CA module requires 8 segments. Segment 4 and 8 are control numbers. (1a + 2b + 3c = 81 and 4d + 5e + 6f = 11a which is 1a when using 2 char.)
If the Bisskey only have 6 segments, you must calculate the 4th and 8th segment.

SID (svcid): 17ed (Hex value)

HowTo convert hex to decimal value:

I'm 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")



Microsoft have made a small conversion software :

<https://docs.microsoft.com/en-us/sysinternals/downloads/hex2dec>

2. The configuration of the TDX and the CAM requires some investigation and conversion.
 - a. The CAM requires “Transparent mode” (route entire frontend to CAM)
 - b. The CAM requires the Bisskey to be entered in decimal with 3 numbers
 - c. The CAM requires the ServiceID (SID/svcid) to be entered in decimal with 5 numbers
 - d. The CAM requires the Video PID (v-pid) to be entered in decimal with 4 numbers (this video PID can be found by adding the scrambled service to an output.. remember to delete)

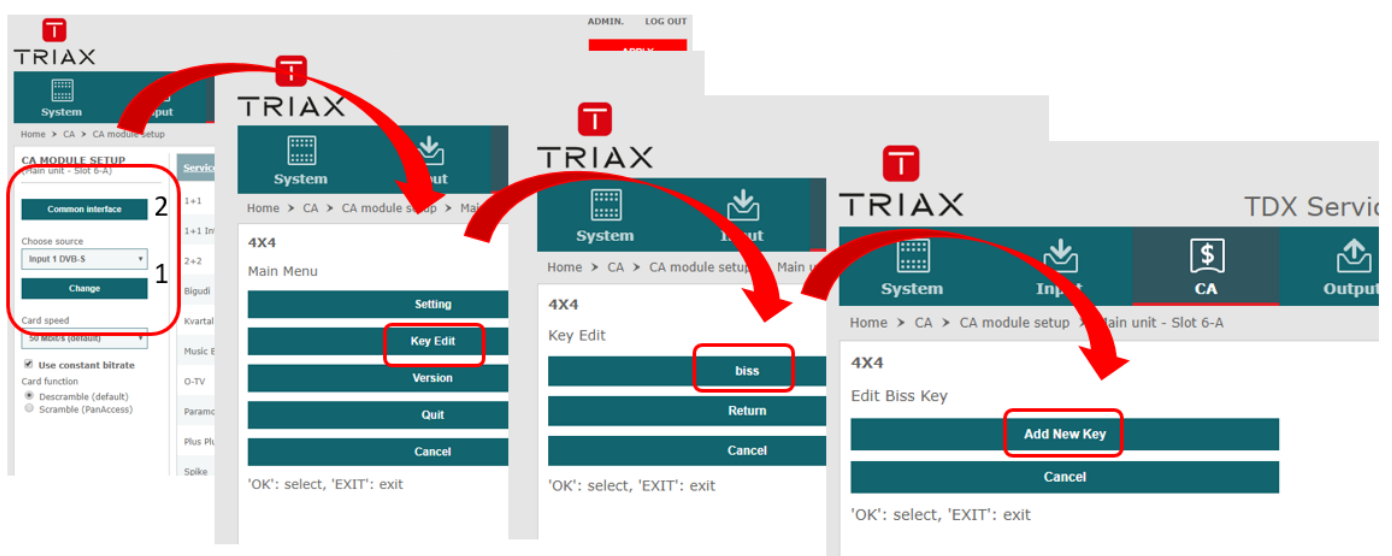
3. The Bisskey and the conversion:
 - a. 1a 2b 3c 81 4d 5e 6f 1a = 26 43 60 129 77 94 111 26 . The first part of the key to be entered will be : 026 ... the second part: 043 ... the third: 060 The fourth: 129 ... and so on.
 - b. Note to the Bisskey: This cam requires 8 blocks. The 4th and 8th are checksums.

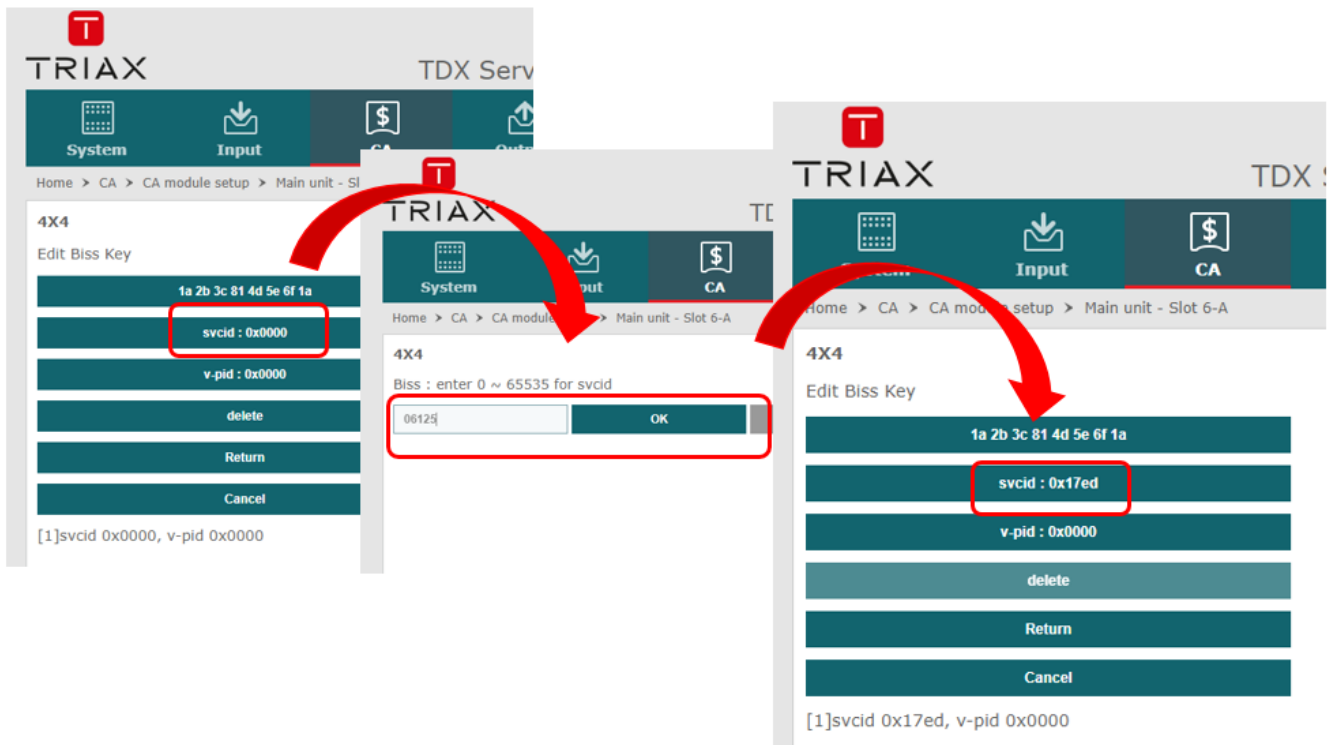
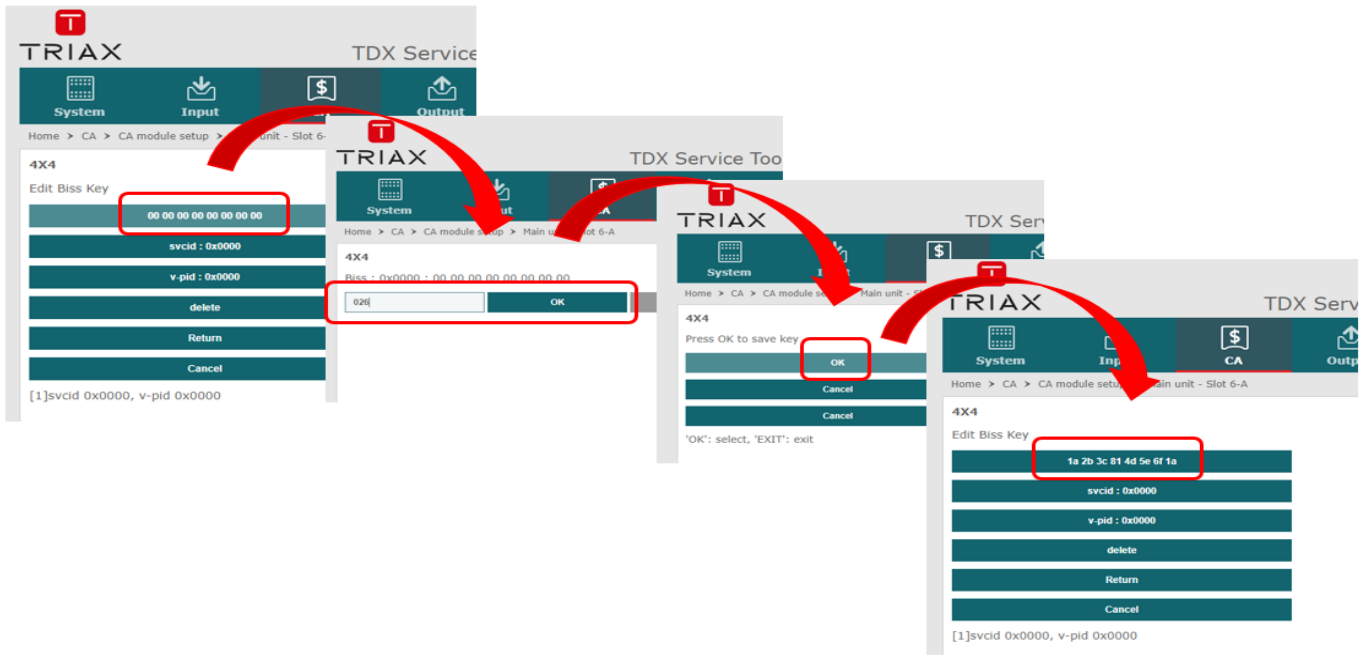
4. The SID and conversion:
 - a. 17ed = 6125 . The SID will be entered as: 06125

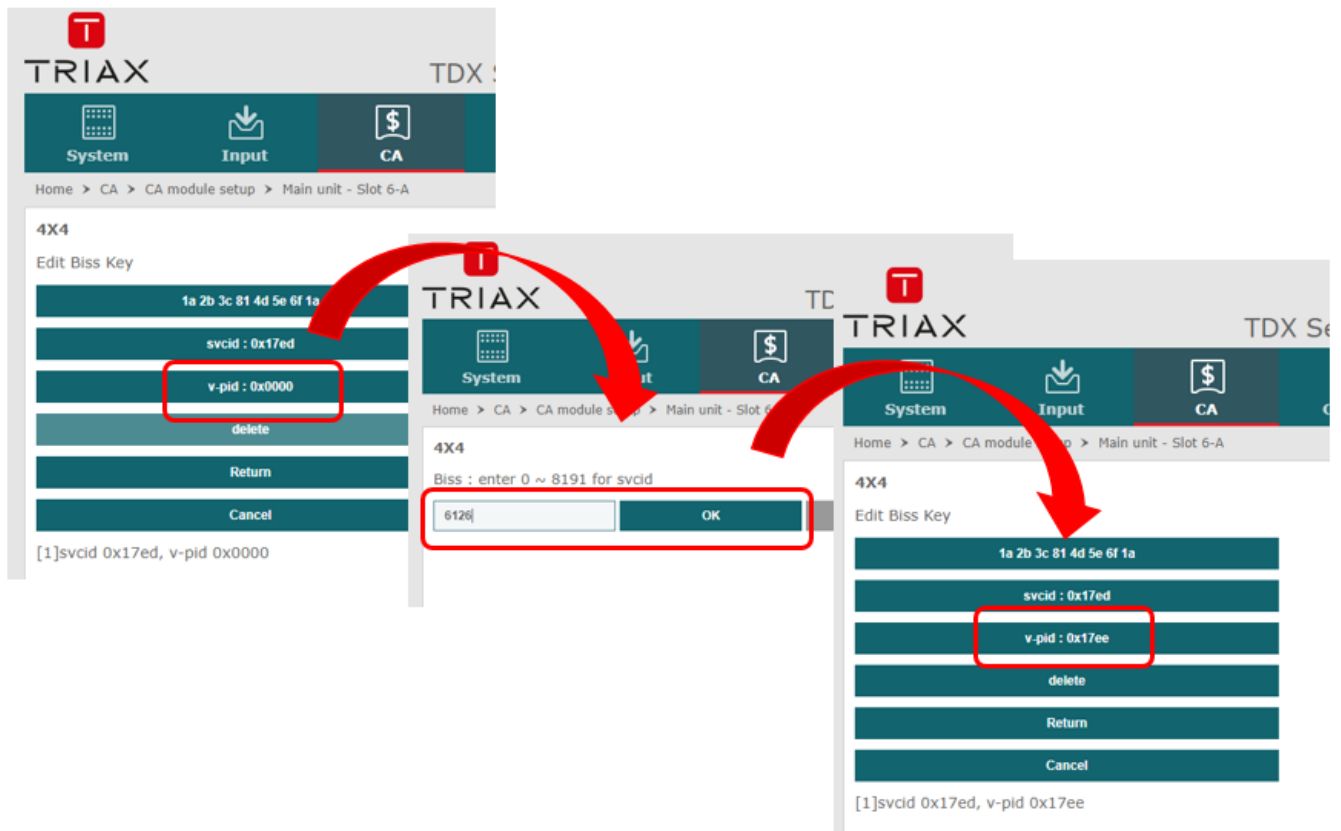
5. The Video PID
 - a. In my case, the video PID is 6126. This will be entered as: 6126

6. The TDX GUI:

- 1: Set source as “Transparent” (select input module to route complete transponder to the CAM)
- 2: select “common interface” and follow this guide







Return
Done 😊