Firmware update

To bring a USB reader into boot loader / configuration mode the following procedure must be followed:
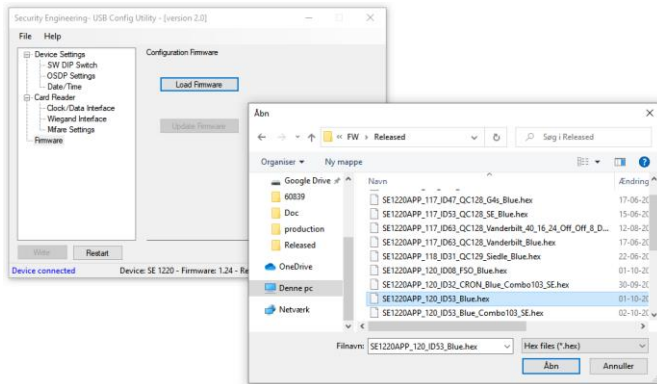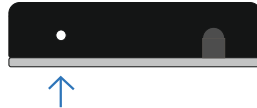
Disconnect the USB cable.

Press and HOLD the mode switch using the Blue Pin.

Reconnect the USB cable.

The LED will turn red and then yellow.

Release the mode switch.

The USB reader is now in boot loader / configuration mode and will be automatically detected by the SE Configuration Utility – seucu.exe

Select firmware file.

Start firmware update process using the 'Program/Verify' button.

To return to normal mode of operation

Disconnect the USB cable.

Reconnect the USB cable.

Firmware	Function	Driver required
SE1220_1xx	Keyboard emulation	None
SE1220CDCRW_3xx	Read/Write via virtual COM port	secdc.inf
SE1220CDC_4xx	ASCII data via virtual COM port	secdc.inf

Please see http://www.securityengineering.dk

readID™ **One**

Configuration guide

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Card data format

The readID™ One USB reader can read sector/app data from a NXP MIFARE® Classic/DESFire® card/tag or Chip Serial Number (UID) from an ISO14443A compatible transponder. Both 4 and 7 byte chip serial number is supported.

Reading MIFARE® sector/app data requires knowledge of Sector/Block or App/File and matching encryption key.

The readID™ One USB reader has a range of fixed formats for transmitting CSN/UID data and a field programmable format to handle custom output for CSN/UID or sector/app data.

Card data formats

Format	ID	Option 1	Option 2
26-37,32, 40, 56, 128 Bit Hex	32	CR	
Mifare CSN Hex Debug	33	CR	
Mifare CSN 32 Bit (HiSec)	41	Tab	
32, 40, 56 Bit Dec (40,56 Bit can be truncked)	46	CR	
Mifare CSN / HiTag2 32, 56 Bit (ATS)	47	CR	
Mifare CSN / HiTag2 32, 56 Bit (ATS Advanced)	48	CR	
Mifare CSN 32 Bit 5+5 Digit (ESMI)	50	CR	
Mifare CSN 32 Bit 8 Digit (ESMI)	51	CR	
Mifare CSN 32 Bit 9 Digit (ESMI)	52	CR	
32, 40, 56 Bit Hex (40,56 Bit can be truncked)	53	CR	
Mifare CSN/Sector Programmable Format	63		

The Programmable format is explained in 'USB Configuration Utility Manual'.

Card data format selection

To bring a USB reader into boot loader / configuration mode the following procedure must be followed:

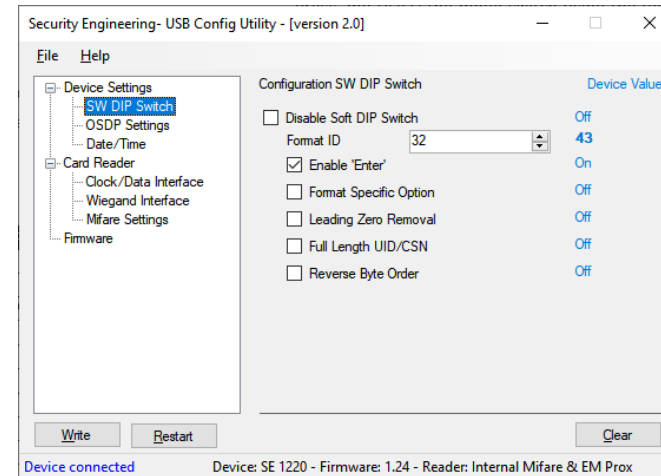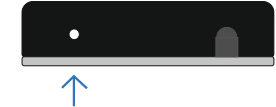Disconnect the USB cable.

Press and HOLD the mode switch using the Blue Pin.

Reconnect the USB cable.

The LED will turn red and then yellow.

Release the mode switch.

The USB reader is now in boot loader / configuration mode and will be automatically detected by the SE Configuration Utility – seucu.exe

Select Format ID and options for Enter/CR at end of transmission and/or Format specific character/setting.

Save format selection by using the 'Write' button.

To return to normal mode of operation

Disconnect the USB cable.

Reconnect the USB cable.