

Firmware update

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

Disconnect the USB cable.

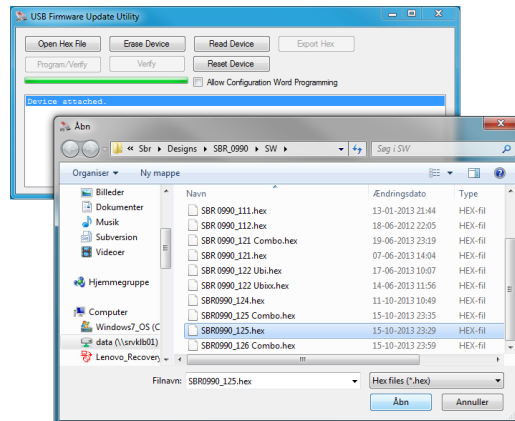
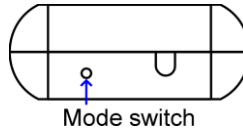
Press and HOLD the mode switch using a paper clip.

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 Firmware Update Utility – seufu.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
SE0994_2xx	Keyboard emulation	None
SE0994CDC_4xx	ASCII data via virtual COM port	secdc.inf

readID™ MIFARE® & Prox

Configuration guide



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Card data format

The readID™ MIFARE® & Prox USB reader can read sector data from a NXP Mifare Classic card/tag or Chip Serial Number (UID) from an ISO14443A compatible transponder and UID from an EM 4102 or compatible prox transponder. 4, 5 and 7 byte chip serial number is supported. Reading Mifare sector data requires knowledge of Sector/Block and matching encryption key.

The readID™ MIFARE® & Prox 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 data.

Card data formats

Format	ID	Option 1	Option 2
Mifare CSN 32/56 Bit Hex & EM 4102 40 Bit	32	CR	
Mifare CSN & EM 4102 Hex Debug	33	CR	
Mifare CSN 32 Bit (HiSec)	41	Tab	
Mifare CSN 32/56 Bit Dec	46	CR	56 Bit
Mifare CSN 32 Bit (ATS)	47	CR	
Mifare CSN 32 Bit Dec Reverse (NXP UID)	49	CR	
Mifare CSN 32 Bit Hex Reverse (NXP UID)	50	CR	
Mifare CSN 32 Bit 8 Digit (Pelco)	51	CR	
Mifare CSN 32 Bit 9 Digit (Pelco)	52	CR	
Mifare CSN 32 Bit Hex (56 Bit will be truncated)	53	CR	
Mifare CSN 56 Bit Dec	55	CR	
Mifare CSN 56 Bit Dec Reverse (NXP UID)	56	CR	
Mifare CSN 56 Bit Hex Reverse - I/Net 7 64 Bit	57	CR	
Mifare CSN 56 Bit Hex Reverse (NXP UID)	58	CR	
Mifare CSN/Sector Programmable Format	63		

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

Please see <http://www.securityengineering.dk>

Card data format selection

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

Disconnect the USB cable.

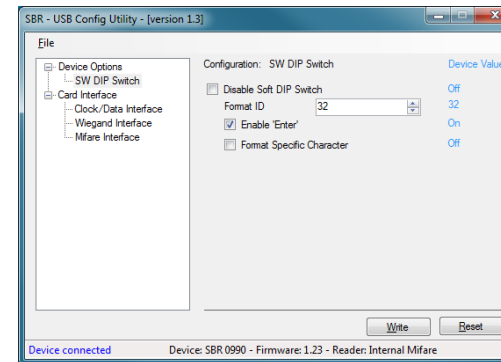
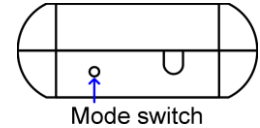
Press and HOLD the mode switch using a paper clip.

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.