



HOTP Seed Programmer

For HyperFIDO Pro Security Key

v1.2

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HSTE-NB0055-RV 1.0

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Getting Started

HOTP Seed Programmer is a tool used to program the HOTP features of both the HyperFIDO Pro Mini and the HyperFIDO Pro Titanium. HOTP refers to an event-based one-time password protocol and is an additional feature of the HyperFIDO Pro series. The HOTP Seed Programmer is only for use with the HOTP feature and will not affect the security key's U2F or FIDO2 features.

No installation process is required for HOTP Seed Programmer. You can run the application directly from the folder in which it's stored.

IMPORTANT: The application must always be run as an administrator in order to receive full functionality.

Setting Up Your Seed File

In order to batch program multiple keys, you must have a seed file titled `SeedFile.txt`. To create your own seed file, you must have the following information:

- 8-digit serial number (SN)
- 40-byte HEX secret key associated with a serial number (HEX)

Input each item exactly in the following format:

SN,HEX

Each record must be on its own separate line. Do not add spaces between the SN and seed. An example seed file may look like this:

```
19004998,57B72C2620D90A3E9C2A3E827C953C6CFFFFFFFFF
19004999,76D941931545B7EC90A9CB1E698591BEFFFFFFFFF
19005000,4F46F52695025ABD34A3287CEDD10489FFFFFFFFF
```

Programming Your Security Key

Multiple keys can be programmed in succession or you can choose to manually program a single key.

Single Key Programming

To program a single security key:

1. Run the application and make sure the security key you're programming is inserted.

2. Select option A to program a 6-digit HOTP security key or B to program an 8-digit HOTP security key.

```

Input the 8-digit serial number (SN) or enter Q to return to the main menu: 12345678
>>>Entered SN [ 12345678 ];HOTP length [ 6 ]
Input 40-byte HEX format seed or enter Q to return to the main menu: 76D941931545B7EC90A9CB1E698591BEFFFFFFF
Entered Seed [ 76D941931545B7EC90A9CB1E698591BEFFFFFFF ]
Press button when light is blinking.

```

3. Input the following information. Details are found in the seed file (OTP secret key file) received along with your security key.
 - 8-digit serial number
 - The 40-byte HEX format secret seed associated with the SN
4. When the green light on the security key is blinking, press the button on the key to finish programming. You must press the button within 5 seconds.
5. Press the button on the security key again to verify if the OTP generated is correct.
6. Press the Enter key to complete the process and remove the security key.

Batch Programming

You can batch program multiple keys if many security keys are required for a large team or department.

1. Run the application and make sure the security key you're programming is inserted.
2. Make sure the seed file is named `SeedFile.txt` and is located in the *same* folder as the one containing the application (`HotpProgrammer.exe`)

is PC > Desktop > HOTPProgrammer		
Name	Date modified	Type
 HotpProgrammer.exe	2019-11-25 10:34 AM	Application
 SeedFile.txt	2019-11-22 8:47 PM	TXT File

3. Select option 8 to batch program 6-digit HOTP security keys or option 9 to batch program 8-digit HOTP security keys.

```

Seed File:
19004998,57B72C2620D90A3E9C2A3E827C953C6CFFFFFFF
19004999,76D941931545B7EC90A9CB1E698591BEFFFFFFF

2 seed(s) read,, 0 incorrect record(s) found in SeedFile.txt.

>>>This key is programmable.

Input the 8-digit serial number (SN) or enter Q to return to the main menu:
19004998

>>>Record found: 19004998, 57B72C2620D90A3E9C2A3E827C953C6CFFFFFFF

Press button when light is blinking.

```

4. Input the SN listed in the file. The associated HEX secret seed will fill out automatically.
5. When the green light on the security key is blinking, press the button on the key to finish programming. You must press the button within 5 seconds.
6. Press the button on the security key again to verify if the OTP generated is correct, then press the Enter key.
7. Insert a new security key and enter Y to program the key. If you are finished programming, enter C to return to the main menu.

IMPORTANT: Do not rename the `SeedFile.txt` file or place it in its own subfolder. It must be located in the same folder as `HotpProgrammer.exe` with the file name `SeedFile.txt` in order for the application to read the data.

Resetting A Security Key

To program a security key again, you can reset (delete) the data on it and start over.

1. Insert the key you want to reset and select option 7.
2. When the green light on the security key is blinking, press the button on the key to complete the reset process. You must press the button within 5 seconds.

NOTE: If you're not sure if a security key has been programmed yet or not, you can check its status by inserting the key and entering 6.

Compatible Security Keys

Only the HyperFIDO Pro Mini and the HyperFIDO Pro Titanium are compatible with HOTP Seed Programmer.

If you're not sure if you have a Pro security key, check for an 8-digit serial number on the security key. The security key must contain an 8-digit serial number engraved on either its side or on the USB head in order to be compatible with HOTP Seed Programmer.

