

seclave

- your digital fortress



USER MANUAL
V1.0

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1. Seclave overview

To activate and customize your seclave you need to set a master password, see **2. Activate the seclave**. Make sure you make a note of the backup key that is created as the seclave is activated, see **10. Backup**

seclave has got two buttons:

The power switch can be found on the top right side of the *seclave*.

Joystick (O) is the large button next to the display.

To start the *seclave* hold down the power switch and press the (O) joystick.

The seclave will turn off for security reasons when not in use for more than 30 seconds (60 seconds when in a sub-menu).

When connected via USB-port the seclave will turn off when not in use in 2.5 minutes.

In the following text the (O) symbolizes the joystick and it has the following functions:

-
- (O) *press*, confirm choice

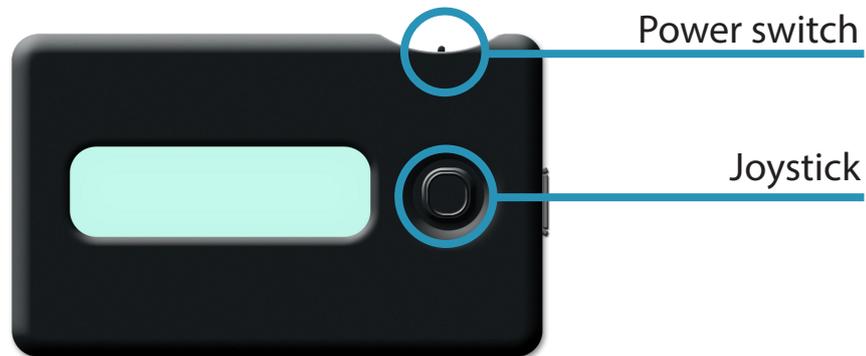
 - (O) *right*, move marker to the right

 - (O) *left*, move marker to the left

 - (O) *down*, go to first choice in menu

 - (O) *up*, go back to previous menu or choice

 - (O) *up and hold* for 1 second in main menu to turn off the *seclave*.



You can always press down to get to the first entry in menus, use this to speed up your navigation significantly.

2. Activate the seclave

When activating the *seclave* you create your master password, internal crypto-keys and the unit is being formatted.

The master password consists of two words that you enter each time the *seclave* is turned on. These two words are generated by the *seclave* the first time it is turned on.

-
- Turn seclave on**

Hold down the power switch and *press* (O).

```
Press/move button
260 times
```

 - Generate randomness**

Before the *seclave* can be activated, randomness needs to be created. This is done by *moving* and *pressing* the joystick until the counter reaches zero.

 - See master password**

When randomness has been generated the first of the words that make up the master password is displayed. *Press* (O) *right* to see the second word. **Make sure you remember these two words!**

With the marker on the second word *press* the (O) to continue.

 - Enter your two master passwords**

Find the first letter in the first password by moving the (O) *right* and *left*. When the right letter is found press the (O). Continue and complete the word by moving *right* and *left* and confirm your choice by *pressing* the (O).

```
Word 1/2
< i l █ n o p r s t >
```

Continue in the same way until both words are completed. As you enter the two words one more time the *seclave* will be formatted and ready to use.

Make sure you remember these two words!

3. Turn on the seclave and enter the master password

-
- Start seclave**

Hold the *power switch* and *press* (O).

 - Enter the words**

Enter the passwords in the same way as in **2. Activate the seclave**. This time you only need to enter the two passwords once.

4. Show passwords and other information

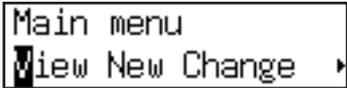
Data in the *seclave* is made up of information strings. One information string consists of the following:

- Label**, is the name of the information, up to 16 characters of lower case letters, no CAPITALS. The **Label** name is used by the *seclave* to label the data in the information string.
- The **Username**, card number or anything similar, can consist of up to 34 characters.
- The **Password**, that is used when logging in, can consist of up to 48 characters.
- Optional**, any additional information, like for example an account number or a date, can consist of up to 13 characters.

All data in the *seclave* is sorted in alphabetical order of the **Label** name.

When the number of information strings exceeds 12 the **Label** names will be displayed by the first letter in the name. In the sub-menu of a letter all **Label** names that start with this letter are shown. All names can be shown in a list as described below*.

A **Label** with the same name as an existing **Label** name in the *seclave* will not be transferred when importing data from a computer.

<input type="radio"/> Choose View in Main menu	 <p>(O) press View</p>
<input type="radio"/> Choose among the entered names or view all names*	<p>Choose to view all names*, or find a name by <i>pressing</i> (O) <i>right</i> or <i>left</i> and confirm choice by pressing (O). If the number of Labels in the <i>seclave</i> exceeds 12 you need to choose the first letter of the Label, and in the sub-menu that opens up, choose the Label name.</p>
<input type="radio"/> Choose data to view	<p>Choose if you want to see Password, Username or Optional information by clicking (O) <i>right</i> or (O) <i>left</i> and (O) <i>press</i> to view. Press (O) <i>up</i> to go back.</p>
<input type="radio"/> Send data to a computer by USB-port	<p><i>Press</i> (O) To USB</p> <p>These functions are used to send information to computer using a emulated usb-keyboard.</p> <p>Choose the information you want to send to the computer:</p> <p>Pwd+ENT, password ended with Enter.</p> <p>Weblogin, user name and password, these are separated with Tab and ended with Enter.</p> <p>Syslogin, user name ended with Enter and password ended with Enter.</p> <p>Password, password without Enter.</p> <p>Username, user name without Enter.</p> <p>Optional, other information without Enter.</p>

5. Manual input of data

This function is mainly to be used when only a few data is to be entered into the *seclave*. The most convenient way to enter data into the *seclave* is to use the importing program on a computer, see **8. Importing data to the seclave with a computer.**

Enter Label

On the same menu-line as numbers and letters the following choices can be found:

- DONE, confirms entry and moves on to entry of user name.
- DEL, deletes one character with each press.
- WORDS, library of predefined words that can be completed with optional text.

Entry of other values

- DONE, confirms entry and moves on to next entry.
- DEL, deletes one character with each press.
- UPPER, entry of upper case letters.
- LOWER, entry of lower case letters.
- SYMB, entry of numbers and other characters.

Space can be found in all input modes as [].

```
Main menu
View New Change ▶
```

Press (O) **New**

Enter **Label** name (the name of the information).
Build up the name by *pressing (O) right, (O) left* and *press (O)* to choose letter.

Confirm by *pressing (O) down* and choose DONE with (O) *press* (regret by *pressing (O) up*).

- Manual entry of Label, User name and optional information.**

Enter **Username** in the same way as described above.

Confirm by *pressing (O) down* and choose DONE with (O) *press*.

Enter **extra information** or finish by *pressing (O) down* and choose DONE.

Confirm by *pressing (O) down* and choose DONE with (O) *press*.

Choose if you want the *seclave* to **Generate** the password or if you want to **Enter password** as described below. (**Enter password**) (see next page).

Generate password



The suggested strength for generated passwords in "Guide me!" is just a **suggestion** and might be too weak under some circumstances.

Under **Generate** in the menu choose with (O) *right*:

Word based, choose between 1 and 5 words.

Choose entropy, choose the length of the password. You can choose between 32 and 256 bits. The created passwords consist of letters and numbers.

Num. Characters, choose between 4 and 20. The created password consists of letters, numbers and other symbols.

PIN, choose between 2 and 16 numbers. The created password only consists of numbers.

Guide me!, choose if you want to have a password for:

webforum, a suggestion for a webforum password.

webmail, a suggestion for a password for a website like hotmail, gmail etc.

login, a suggestion for a password to use as login, to a computer for example.

cryptokeys, a suggestion for a very safe password for encryption.

When the password has been generated you can see it in the display. Press (O) *up* to show **main menu**. The password can be **Changed** in **main menu**.

Press (O) **Enter password**

Enter your own password

Choose the letter that make up the password.

Confirm by pressing (O) *down* and choose **DONE**.

The password can be **Changed** in the main menu.

6. Change data

You can easily change password (**Change pwd**), edit password (**Edit pwd**), change label (**Label**) and change username (**Username**).

When the changes have been made you return to the main menu with (O) *up*.

Choose Change

```
Main menu
View New Change
```

Press (O) **Change**

Choose the information (**Label**) that you want to change.

Choose type of change

Choose one of the following:

Change password (*Password*)

Edit user name (*Username*)

Edit optional information (*Optional*)

Edit name of information string (*Label*)

<input type="radio"/> Change password	<p><i>Press (O) Password</i></p> <p>Choose one of the following: Generate new password (Generate) Edit password (Enter password)</p>
<input type="radio"/> Generate password	<p><i>Press (O) Generate</i></p> <p>You are presented to the same choices as when a new password is generated.</p> <p>Once the new password has been generated you can view old or new passwords and update.</p> <p><i>Press (O) Update</i> if you want the new password to overwrite the old password.</p> <div data-bbox="671 629 1018 712" style="border: 1px solid black; padding: 2px;"> Change pwd Update </div> <p><i>Press (O) View new/old pwd</i> to see the old and the new password and to reach the password menu where you can choose to send information by USB-port to a computer.</p>
<input type="radio"/> Enter password	<p><i>Press (O) Enter password</i></p> <p>Enter password.</p> <p>Confirm by pressing (O) <i>down</i> and choose DONE.</p> <p>Once the password has been entered the same menu is shown as can be seen when Generate password.</p>
<input type="radio"/> Edit user name	<p><i>Press (O) Username</i></p> <p>Change the user name by deleting characters with DEL and enter new text. Confirm by <i>pressing (O) down</i> and choose DONE.</p>
<input type="radio"/> Edit optional information	<p><i>Press (O) Optional</i></p> <p>Change optional information by deleting characters with DEL enter new text.</p> <p>Confirm by pressing (O) <i>down</i> and choose DONE.</p>
<input type="radio"/> Change name on information line	<p><i>Press (O) Label</i></p> <p>Choose a new name, an empty or already taken name will not be accepted.</p>

7. Delete data

```
Main menu
Delete Import
```

(O) *press Delete*

Choose Delete

Choose information to be deleted.



N.B! The whole information string, with all data, will be deleted.

Delete the whole information line

Choose by *pressing* (O) **Yes** or **No** if the whole information string is to be deleted or not.

8. Import data to the seclave with a computer

Start program

Double click the file **sec_import.win32** in your computer.

Enter desired values in the columns

Row	Label	Username	Password	Optional
1	AlphaMac	myname	secretpassword	
2	visacard	4512444455556666	1234	333,14-02
3				
4				

Start your *seclave*

Connect *seclave*

```
Main menu
Delete Import
```

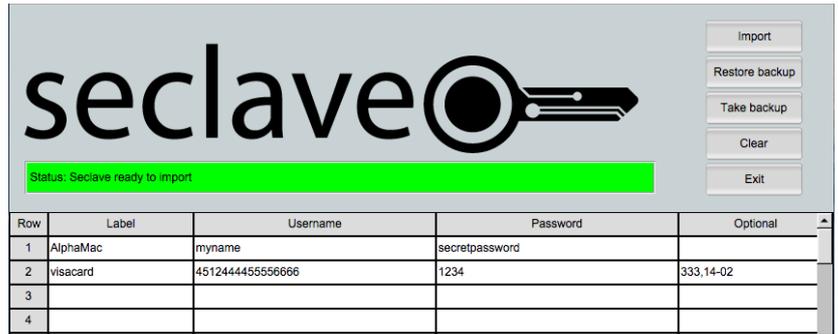
Connect seclave

Press (O) **Import**

When the unit is installed the display will show:

```
Import
0% done
```

In the computer-program the status is changed:



Row	Label	Username	Password	Optional
1	AlphaMac	myname	secretpassword	
2	visacard	4512444455556666	1234	333,14-02
3				
4				

Click **Import**

When transfer and control is done the *seclave* will display:

Commiting
Import OK

If import succeeded.

Failed to import!
No space!

Failed because there was not enough room for all imported passwords on the device.

Failed to import!
Invalid label!

Failed because the import program mis-formatted the imported labels.

Turn off the program in your computer with **Exit**

● **Transfer data to seclave from computer**



On MacOSX it's import to eject the SECLAVE volume from the OS when you are told by seclave or you will receive a warning message from the OS.

9. Administration

Choose administration



Press (O) **Admin**

Press (O) **Keyboard mode**

Choose which type of computer you are using the keyboard emulation on:

Normal – Windows, Linux or any other operating system

Mac – Mac OS

Choose keyboard layout

Press (O) **Keyboard map**

Choose with (O) to set which keyboard mapping the computer is currently using, i.e the language of your keyboard.



On Mac OS X there is two different Swedish keyboards: Swedish and Swedish PRO, make sure you use the correct one, Swedish PRO is the most common one.

Displays number of times left that the seclave can be completely reseted

Press (O) **Auth zones**

Shows number of times left that the *seclave* can be completely reseted.

If the wrong password is entered more than **4 times in a row** everything in the *seclave* will be **deleted**.

One Auth zone has been spent, 7 zones (times) left for reformatting.

Factory reset restores the *seclave* to the factory settings without spending zones (a maximum of 8 zones are left to spend).

Factory reset



N.B! This choice will delete everything in the *seclave* !

Confirm with **Yes**

You will need to re-enter your login for verification before you can proceed.

Change master password

Press (O) **Change login**

Log in as usual.

Enter master password and repeat new password.

This function should be used with care as weak logins can be created. This should primarily be used when an old unit is to be replaced, with intact passwords.

Remove all passwords

Press (O) **Erase storage**

This will erase all your passwords, but it will not change any settings like backup-key, login password, or saved backup restorekey.

You will need to re-enter your login for verification before you can proceed.

10. Backup

With this function a backup can be made to a computer and then restored into a *seclave* unit. To read the information the backup key needs to be entered, it is displayed under **Show key**

The key is unique for your activated seclave. After every reactivation the backup key is changed.

The backup file should be stored in a secure place where it is not lost or destroyed.



The backup key should be written down and kept in a secure place, for example in a bank safe or similar.

Choose backup menu



Press (O) **Backup**

Connect the seclave to the computer via USB-port.

Press (O) **Export** and the backup file is displayed in the explorer/finder.

Take backup

Open the explorer and copy the file to a chosen library or use the function "Take Backup" from the sec_import program, see 8. Importing data to seclave with a computer



Remember that the backup is useless without the backup key!

Connect the seclave to the computer via USB-port.

Press (O) **Restore**

If you have entered a saved restore key you will have the option to use this when restoring from a backup, if you press Yes then the saved restore will be used. If you choose No then you will be asked to enter a backup key:

Restore the backup

Enter the backup key (32 characters).

Confirm by pressing *down* (O) and choose Done.

Either use the sec_import program and the function **Restore backup** or open the explorer and copy the backup file to the *seclave* unit (usually E: on Windows or a volume named SECLAVE on other OSes).

Show backup key

Press (O) Show key

You will need to re-enter your login for verification before you can proceed..

Make a note of the backup key that is displayed.

Saved restorekey

Press (O) Saved restorekey

Enter a predefined restorekey that can optionally be used when restoring a backup.

This can be used to easily mirror the content of one seclave to another, by store the backupkey of the "master" seclave and then use **Erase storage** and **Restore backup** to update the content on the "slave".

11. Info

This show information about your seclave:

Used - tells you the number of password stored in the *seclave*.

Free - the number of free password slots.

V – the version on your *seclave*.

S/N – the serial number of your *seclave*.

Pwrup – times the *seclave* have been powered on since last activation.

12. Turning off

In main menu *press (O) up* and the *seclave* will turn off in **1 second**.

The *seclave* is automatically turned off when not in use for more than **30 seconds**, and when in a sub-menu in **60 seconds**.

When connected to USB-port the seclave turns off in **2.5 minutes**.

13. Tips and tricks

When importing, all data can be omitted except *Label*. In this way you can easily complete later on with extra information, for example with passwords by **Change->Password->Generate**

14. Technical data

To show the version number and the serial number *press (O) left* at the same time as you *press* the power switch.