USER GUIDE ON
VINCSS FIDO2® TOUCH 1

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## VERSION TRACKING

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Performer</th>
<th>Locate</th>
<th>Contact</th>
<th>Note</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
<td>First release of VinCSS FIDO2® Touch 1 – User guide</td>
</tr>
<tr>
<td>1.1</td>
<td>19/11/2020</td>
<td></td>
<td></td>
<td></td>
<td>Updated content</td>
</tr>
<tr>
<td>1.2</td>
<td>09/12/2020</td>
<td></td>
<td></td>
<td></td>
<td>Updated content</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENT

**VERSION TRACKING** ........................................................................................................... 2  
**TABLE OF CONTENT** ........................................................................................................... 3  
1. INTRODUCE FIDO2 ............................................................................................................. 4  
2. MANAGE PIN CODE ............................................................................................................. 5  
   2.1. Windows Platform .......................................................................................................... 5  
     2.1.1. Create a new PIN code for VinCSS FIDO2® Touch 1 .............................................. 5  
     2.1.2. Change PIN code for VinCSS FIDO2® Touch 1 ....................................................... 6  
     2.1.3. Reset PIN code for VinCSS FIDO2® Touch 1 ......................................................... 7  
   2.2. macOS Platform ........................................................................................................... 10  
     2.2.1. Create a new PIN code for VinCSS FIDO2® Touch 1 .............................................. 10  
     2.2.2. Change PIN code for VinCSS FIDO2® Touch 1 ....................................................... 11  
     2.2.3. Reset PIN code for VinCSS FIDO2® Touch 1 ......................................................... 11  
   2.3. Linux Platform ............................................................................................................. 12  
     2.3.1. Configure “udev rules” for Ubuntu 18.04 or previous versions .............................. 12  
3. AUTHENTICATION WITH VINCSS FIDO2® TOUCH 1 ..................................................... 14  
   3.1 Passwordless authentication for Microsoft service ....................................................... 14  
   3.2. Passwordless authentication with OVPN service ....................................................... 20  
   3.3. Two-factor authentication with Google service ........................................................... 22  
   3.4. Two-factor authentication with Facebook service .................................................... 26  
   3.5. Two-factor authentication with Dropbox service ....................................................... 31  
   3.6. Two-factor authentication with Twitter service ......................................................... 34
1. INTRODUCE FIDO2

FIDO2 is the overarching term for FIDO Alliance’s newest set of specifications. With FIDO2, user only need the security key (protected by PIN/Fingerprint/FaceID) to login to many systems/applications instead of having to remember multiple passwords and changing them frequently.

VinCSS made a remarkable achievement in the technology market when they launched “VinCSS FIDO2® Touch 1” authenticator compliant with the FIDO2 standards.

VinCSS FIDO2® Touch 1 currently supports popular browsers such as Chrome, Edge, Edge Chronium, Firefox, Safari.

For more information, see: http://passwordless.vincss.net
2. MANAGE PIN CODE

The PIN code for VinCSS FIDO2® Touch 1 is set to prevent unauthorized use or protect the key in case it is lost. To create, change or reset PIN code for VinCSS FIDO2® Touch 1, please follow the steps below.

2.1. Windows Platform

Note: For Windows 10 version older than 1803, operations to manage security key will be performed on Chrome browser (same as macOS platform).

2.1.1. Create a new PIN code for VinCSS FIDO2® Touch 1

- Access Start > Settings
- Select Account > Sign-in options > Security Key. Then click the Manage button

- Touch the yellow logo on the security key

- Initial default, VinCSS FIDO2® Touch 1 has no PIN, to set PIN code for VinCSS FIDO2® Touch 1, in the Security Key PIN section, click Add
- Input the PIN code, then click **OK**

2.1.2. **Change PIN code for VinCSS FIDO2® Touch 1**

- Access *Start > Settings*
- Select *Account > Sign-in options > Security Key*. Then click the **Manage** button

- Touch the yellow logo on the security key
- In the section Security Key PIN, click Change to change the PIN code of the security key

- Input information in the order: old PIN, new PIN, confirm new PIN. Then click OK

2.1.3. Reset PIN code for VinCSS FIDO2® Touch 1

In the case of forgetting the PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user’s security key credentials are removed, and user needs to re-register the key as new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked permanently, where the user has no choice other than to reset the security key to use as a new device.

To reset VinCSS FIDO2® Touch 1, please do the following steps:
- Access Start > Settings
- Select Account > Sign-in options > Security Key. Then click the Manage button
- Touch the yellow logo on the security key

- In section **Reset Security Key**, click **Reset**

- Press **Proceed** to reset PIN code for VinCSS FIDO2® Touch 1
- Unplug the VinCSS FIDO2® Touch 1 security key from the computer, then plug it in again.

- Double-tap the yellow logo on the VinCSS FIDO2® Touch 1 security lock.

- PIN code reset is successful.
2.2. macOS Platform

2.2.1. Create a new PIN code for VinCSS FIDO2® Touch 1

- Open Chrome browser, go to Setting > Privacy and Security > More > Manage security keys

- Initial default, VinCSS FIDO2® Touch 1 has no PIN. To set PIN code for VinCSS FIDO2® Touch 1, on the Manage security keys interface, click Create a PIN, then touch the yellow logo to confirm

- Next, enter PIN code and confirm and then click Save to create a PIN

- Click OK to finish setting the PIN code for VinCSS FIDO2® Touch 1
2.2.2. Change PIN code for VinCSS FIDO2® Touch 1

- To change the PIN code for VinCSS FIDO2® Touch 1, on the Manage security keys interface, select Create a PIN and touch the yellow logo to confirm

![Create a PIN](image)

- In the window Change a PIN, enter the current PIN code, at the bottom enter the new PIN to change and confirm again, then select Save to change

![Change a PIN](image)

- Click OK to complete the change of PIN code for VinCSS FIDO2® Touch 1

![Change a PIN](image)

2.2.3. Reset PIN code for VinCSS FIDO2® Touch 1

In the case of forgetting PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user security key credentials are removed, and the user needs to re-register the key as a new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked permanently, user has no choice other than to reset the security key to use as a new device.

To reset VinCSS FIDO2® Touch 1, please do the following steps:

- On the Manage security keys interface, select Reset your security keys and touch the yellow logo on VinCSS FIDO2® Touch 1 to confirm
- Tap on the yellow logo on VinCSS FIDO2® Touch 1 again to confirm and finish resetting the VinCSS FIDO2® Touch 1.

2.3. Linux Platform

These versions of Linux already support VinCSS FIDO2® Touch 1 natively:
- Ubuntu 20.04
- Debian 10.5
- CentOS 8

For Ubuntu 18.04 or previous versions, need to config “udev rules”.
Other operations to manage security key will be performed on Chrome browser (same as macOS platform).

2.3.1. Configure “udev rules” for Ubuntu 18.04 or previous versions

- Create a file named 66-vincss-fido2-access.rules in /etc/udev/rules.d folder with the following content:

ACTION!="add\|change\|move", GOTO="mm_usb_device_blacklist_end"
SUBSYSTEM!="usb", GOTO="mm_usb_device_blacklist_end"
ENV{DEVTYPE}!="usb_device", GOTO="mm_usb_device_blacklist_end"

# VinCSS FIDO2 Touch 1
ATTRS{idVendor}"="0483",ATTRS{idProduct}"="a2ca", ENV{ID_MM_DEVICE_IGNORE}"="1"
# VinCSS FIDO2 VOS Aris Pro
ATTRS{idVendor}"="18d1", ATTRS{idProduct}"="4ee1", ENV{ID_MMDEVICE_IGNORE}"="1"
# VinCSS FIDO2 VOS Aris
ATTRS{idVendor}"="18d1", ATTRS{idProduct}"="4ee7", ENV{ID_MMDEVICE_IGNORE}"="1"
LABEL="mm_usb_device_blacklist_end"

# VinCSS FIDO2 Touch 1
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="a2ca",
TAG="uaccess"

# VinCSS FIDO2 VOS Aris Pro
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee1",
TAG="uaccess"

# VinCSS FIDO2 VOS Aris
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee7",
TAG="uaccess"

- After that, access Terminal and run this command:
  
  sudo udevadm control --reload-rules && sudo udevadm trigger

3. AUTHENTICATION WITH VINCSS FIDO2® TOUCH 1

3.1 Passwordless authentication for Microsoft service

- Access https://microsoft.com, select Sign in

- Enter account information (username/password) to login

- After successful login, select View account
- Select **Security info** to change security settings

- Select **Add method** to add login method

- Select **Security key** from the list and press the **Add** button

- To use security key, Microsoft requires to setup two-factor authentication first. Click **Next** to activate two-factor authentication
- Select **Next** to continue

- Input the country code and phone number to receive the verification code

- Enter the 6-digit code received via SMS to confirm the correct phone number (Example: code is 123456)

- Enable two-factor authentication successful. Click **Next** to continue
- Confirm registered information, click **Done** to return to the **Security info** page

- Select **Add method > Security Key**, then click **Add**

- Select **USB device**

- Plug in VinCSS FIDO2® Touch 1 to the computer and select **Next**
- Click *OK* in the next message

- Enter the PIN code set up earlier and press *OK*
- Tap the yellow logo on VinCSS FIDO2® Touch 1 to continue

- Name the security key to identify the key in case user uses multiple keys for the account, click Next to confirm

- Click **Done** to complete the Security key registration
3.2. Passwordless authentication with OVPN service

- Right-click on the VinCSS OVPN Client icon on the taskbar or tray bar, select the imported profile, then select **Show windows**

- On VinCSS OVPN Client interface, select **Connect > Yes** (to authenticate with VinCSS FIDO2® Touch 1)

- Enter Username, then select **Login**. Next, plug in the VinCSS FIDO2® Touch 1 to the computer
- Enter the PIN code of VinCSS FIDO2® Touch 1 and select *Next*

- Then, touch the yellow logo on the VinCSS FIDO2® Touch 1 hard key

- The VPN connection is established after user authentication is successful.
- VPN connection is successful. This window will auto-hide after a short period of time. On the tray bar will display a green app logo icon indicating a successful connection.

3.3. Two-factor authentication with Google service
- Go to https://accounts.google.com, login with username and password
- Click the account icon in the upper right corner, select *Manage your Google Account*
- Select **Security** on the left menu

- Select **2-Step Verification** to enable two-factor authentication

- Select **ADD SECURITY KEY** from the list of authentication method

- Select **Next** to register security key
- When the **Register your Security Key** screen appears, plug in VinCSS FIDO2® Touch 1 to the computer

- At this step, browser may request to read security key information, select Allow to continue.
- Name the security key to identify the key in case user uses multiple keys for the account, press **Done** to confirm

![Security Key registered](image)

- Registration has completed, from now on all Google services will require user to login with both password and security key.

![Add Security Key](image)

- To check the login flow, access [https://accounts.google.com](https://accounts.google.com) then login with username and password

![Google login](image)
- After being authenticated with the password, browser requests user to authenticate with the security key. User plugs in VinCSS FIDO²® Touch 1 to computer, touch the logo on VinCSS FIDO²® Touch 1 to perform two-factor authentication.

- Successful two-factor authentication, now user logged into account:

3.4. Two-factor authentication with Facebook service
- Login to https://facebook.com then go to Settings and select Security and Login on the left menu
In the **2-Factor Authentication** section, choose to edit **Use 2-Factor Authentication**

If user hasn’t enabled 2-factor authentication yet, user must choose to add authentication method via OTP on Google Authenticator app or SMS. The example below chooses to receive OTP via SMS

Enter the code sent to mobile phone
Successful verification:

- Select **Security Key** under section **Add a Backup Method**.

- Attach VinCSS FIDO2® Touch 1 to computer and touch the logo on security key.
- Enter PIN code of VinCSS FIDO2® Touch 1 to authenticate, then click Next

- Touch the logo on VinCSS FIDO2® Touch 1 to complete the registration

- Name the security key to identify the key in case user uses multiple keys for the account, click Save to confirm
- To check the login flow, access https://facebook.com then login with username and password

![Facebook login page](image)

- After authenticated with password, browser requests user to authenticate with the security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touches the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.

![Two-factor authentication required](image)

- Successful authentication
3.5. Two-factor authentication with Dropbox service

- Access to Dropbox service at https://dropbox.com/, login and select *Settings*

- At *Security*, turn on the *Two-step verification feature*, then select *Add* the *Security keys* feature

- Select *Begin setup* to start the registration process of VinCSS FIDO2® Touch 1
- Enter the password to proceed with the registration

![Add security key](image1.png)

- Connect VinCSS FIDO2® Touch 1 to computer

![Add security key](image2.png)

- Touch the yellow logo on VinCSS FIDO2® Touch 1

![Use your security key with www.dropbox.com](image3.png)
- At this step, browser may request to read security key information, select Allow to continue.

- Name the security key to identify the key in case user uses multiple keys for the account, click Finish to confirm.

- To check the login flow, access https://dropbox.com then login with username and password
- After being authenticated with the password, browser requests user to authenticate with security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touches the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.

3.6. Two-factor authentication with Twitter service


- At Security section, select Two-factor authentication and check the Security Key feature
- Enter the login password and select **Verify** to confirm the registration process

![Verify password screen]

- Select **Start** to start registration

![Start registration screen]

- Connect VinCSS FIDO2® Touch 1 to computer, then touch the yellow logo on VinCSS FIDO2® Touch 1

![FIDO2 connection screen]

- Successful registration, select **Got it** to finish:

![Successful registration screen]
- To check the login flow, access https://twitter.com/ then login with username and password

- Select **Choose a different two-factor authentication method**

- Select **Security key**
- Connect VinCSS FIDO2® Touch 1 to the computer, then touch the yellow logo on VinCSS FIDO2® Touch 1 to complete the login process