# OneSpan

# Digipass® FIDO Touch

## User Guide

### Version:1.05

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# 1 Introduction

FIDO2 is a set of standards that enables easy and secure logins to websites and applications via biometrics, mobile devices and/or FIDO Security Keys. FIDO2's simpler login experiences are backed by strong cryptographic security that is far superior to passwords, protecting users from phishing, all forms of password theft and replay attacks[1].

Learn more about FIDO2 at https://fidoalliance.org/fido2/.

Digipass FIDO Touch is a FIDO security key that supports the FIDO2 protocol. Digipass FIDO Touch is FIDO2 certified Level1 by the FIDO Alliance, and Bluetooth certified. Digipass FIDO Touch establishes a communication with the computer. As a result, Digipass FIDO Touch delivers the most secure and lightning-fast user connectivity to protect even the most sensitive mobile or computer transactions.

## 1.1 Who Should Read This Guide?

This document is intended for users who are installing or configuring Digipass FIDO Touch in different environments and languages. The audience must also be familiar with Bluetooth pairing on Android, iOS, or Windows 10 devices and Windows 10 configuration and settings.

## 1.2 Comments and Feedback

If you encounter errors while attempting to perform the steps articulated in this guide, or have suggestions to improve this guide should be sent by email to: documentation2@onespan.com.

## 1.3 Terminology

Table 1 describes the technical terms used in this document. For a list of general technical terms used throughout all documents, see the FIDO Authentication Solution Guide.

Table 1: Glossary of technical terms

| Term | Description |
|------|-------------|
| Digipass FIDO Touch | Authenticator supporting the FIDO2 protocol |
| Server | FIDO Universal Server |
| App | Mobile application |

[1] Source of definition: https://fidoalliance.org/microsoft-achieves-fido2-certification-for-windows-hello/
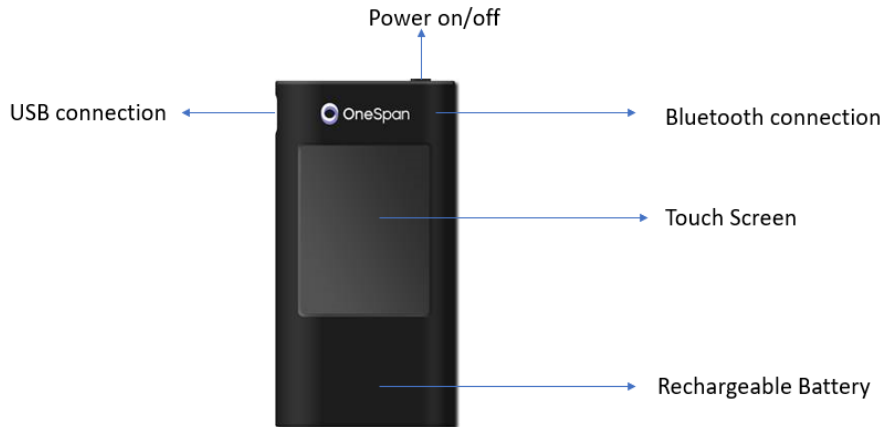
# 2 Description and Configuration

## 2.1 Presentation



Figure 1: Digipass FIDO Touch



Figure 2: Start screen icons

> NOTE
> The Bluetooth icon has three states:
>
> Bluetooth OFF or No device paired
>
> Bluetooth ON and one device paired
>
> Bluetooth connected

## 2.2 System requirements

Table 2: Digipass FIDO Touch system requirements

| Requirement | Digipass FIDO Touch |
|---|---|
| Operating Systems/Bluetooth connection | • Bluetooth 4.0 LE<br>• iOS7 or Higher<br>• Android 6.0 or Higher<br>• Windows 10 |
| Operating System /USB connection | • Windows 7 ; Windows 10<br>• MacOS x 10.13 or Higher |
| Browser | • all browsers supporting the FIDO2 WebAuthn API |
| Platform | • FIDO CTAP2 API |

## 2.3 Power on/off

To switch on Digipass FIDO Touch, click the Power button. The splash screen is displayed:



Figure 3: Digipass FIDO Touch splash screen

After a moment, a new screen is displayed. This will be one of the following two, depending on the Bluetooth pairing status.

1. If you have already paired your Digipass FIDO Touch with a tablet, phone, or computer, the following screen will be displayed:

## 2.5.2 Pairing process

To use your Digipass FIDO Touch on a new platform, you need to turn on Bluetooth on your platform and follow the platform-specific steps for pairing a new Bluetooth device.

On Digipass FIDO Touch, follow these steps:

➢ **Procedure 1: Pairing Digipass FIDO Touch**

**1.** Switch on your Digipass FIDO Touch.

**2.** Click on the Settings icon. Digipass FIDO Touch displays the following screen:



Figure 5: Settings screen

**3.** Click on the Bluetooth icon. Digipass FIDO Touch now displays this screen:



Figure 6: Bluetooth options screen

**4.** Enable Bluetooth by pressing . By default, this option is enabled.

**5.** Add a new platform by pressing .

While searching for the Bluetooth connection with your platform, Digipass FIDO Touch displays the following screen:

Figure 7: Searching for Bluetooth connection

The platform should display a message with a PIN to enter for pairing. shows an example on a Windows-10 device.
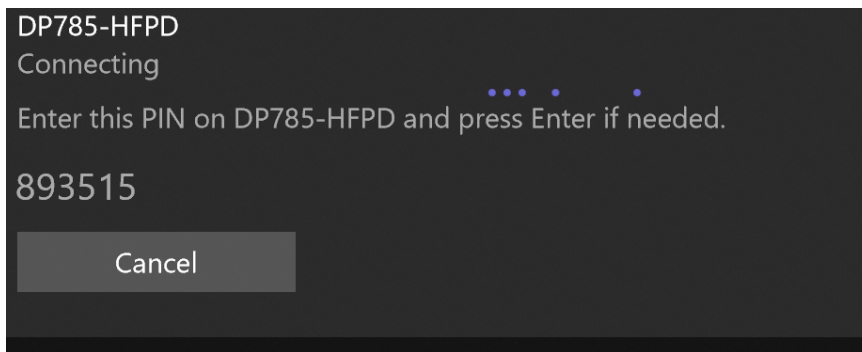


Figure 8: PIN for Bluetooth pairing on Windows 10 device

6. Enter the PIN on Digipass FIDO Touch.

7. If pairing was successful, Digipass FIDO Touch displays a success message.

NOTE
For Android devices, the pairing process can be done via the system menu or directly in the App.

For iOS devices and MacOS x platform, the pairing process must be done with an app. The system menu does not allow you to pair BLE devices.

To remove the pairing of Digipass FIDO Touch and a device, follow these steps.

➢ **Procedure 2: Removing Bluetooth pairing**

1. Press the Remove Bluetooth pairing icon .

2. You can delete the Bluetooth pairing for all hosts or select hosts individually.
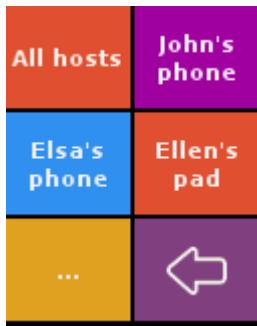
Figure 9: Select host to be deleted

3. Select the host for which you wish to remove the Bluetooth pairing.

### 2.5.3 Set the language of your Digipass FIDO Touch

You can set the language of your Digipass FIDO Touch. The following languages are supported:

- English
- French
- Dutch
- Japanese
- Spanish
- German

➢ **Procedure 3: Setting the language**

1. On the main screen, click the settings icon.
2. In the next screen, click the language selection icon .
3. Select your language.
4. To finish, Digipass FIDO Touch displays a confirmation message. Confirm this by clicking OK.

### 2.5.4 Reset Digipass FIDO Touch

To reset Digipass FIDO Touch, follow these steps.

➢ **Procedure 4: Resetting Digipass FIDO Touch**

1. On the main screen, click on the Settings icon.

**2.** The following screen is displayed:



Figure 10: Settings screen

**3.** Click the reset icon .

**4.** Confirm or cancel the action.

> **CAUTION**
> When you reset your device, the PIN will be reset, and all registrations will be lost.

## 2.5.5 Set a PIN

### Procedure 5: Set Pin on first used

FIDO2 credential is pin protected. The First time you are invited to set your PIN to protect your device. At the wake up of the Digipass FIDO Touch the message "Your Pin is not set, please set your Pin".

**1.** On the screen, please press the OK button.

**2.** "Choose the new PIN". with keypad of the FIDO Touch screen

**3.** The policy for PIN strength prescribes a length of 6 digits (before validation).

**4.** Confirm the NEW PIN by enter your PIN a second time

**5.** When the PIN is set, Digipass FIDO Touch will display the message PIN configured. Press OK to leave this screen.

## Procedure 6: change PIN

1. In the main screen, press the Set Pin icon  .

2. Enter your PIN.

3. Choose Your New PIN

4. The policy for PIN strength prescribes a length of 6 digits (before validation).

5. Confirm the New PIN entry.

6. When the PIN is set, Digipass FIDO Touch will display the message PIN configured. Press OK to leave this screen.

> NOTE
> Digipass FIDO Touch refuses weak PINs. The difference between two consecutive digits must not be a constant. For example, simple PINs like 111111, 123456, or 987654 are refused.
>
> Also, the new PIN must be different from the current PIN.

# 3 FIDO2 usage

## 3.1 Overview

Before using your Digipass FIDO  Touch, you need to register it.

- FIDO  supports the following operations:
  - Registration
  - Authentication
  - Transaction verification
- Windows 10 (version May 2019 update) includes support for password-less FIDO Authentication via Windows Hello or FIDO Security Key on Microsoft Edge and the most recent versions of Mozilla Firefox and Chrome.

## 3.2 Introduction of the scenario

The general workflow between a platform and Digipass FIDO Touch is:

1. The platform establishes the connection with Digipass FIDO Touch.

2. The platform retrieves information about Digipass FIDO Touch using a command to determine the capabilities of Digipass FIDO Touch.

3. The platform sends a command for an operation if Digipass FIDO Touch supports the operation.

4. Digipass FIDO Touch replies with response data or an error message.

## 3.3 Registration

Before using your Digipass FIDO Touch to replace your credentials (user name and/or password), you must register your Digipass FIDO Touch.

➢ **Procedure 7: Registering Digipass FIDO Touch**

- Switch on and connect your Digipass FIDO Touch with USB or Bluetooth.
- When the Server sends the request, Digipass FIDO Touch asks you if you want to register.
- After you press Yes, Digipass FIDO Touch displays the details of the registration, including the name of the relying party, the account, the display and user names.

> NOTE
> In case the Server requests a PIN verification, or Digipass FIDO
> Touch is PIN-protected, the PIN verification screen is displayed.
> Enter the Digipass FIDO Touch PIN

To delete the credentials, press the FIDO credential icon  on the main menu.

## 3.4 Authentication

After registering your Digipass FIDO Touch, the device is ready for authentication and transactions.

➢ **Procedure 8: Using Digipass FIDO Touch for authentication**

- Switch on and connect your Digipass FIDO Touch with USB or Bluetooth.

- When the Server sends the request, Digipass FIDO Touch asks you if you want to authenticate.

- After you press Yes, Digipass FIDO Touch displays the details of the login, including the name of the relying party, selecting the account, the display and user names.

> NOTE
> In case Digipass FIDO Touch is PIN-protected, the PIN verification
> screen is displayed. Enter the Digipass FIDO Touch PIN

## 3.5 Transactions

Transactions are initiated in the same way as an authentication, but Digipass FIDO Touch uses transaction data instead of the authentication data.

➢ **Procedure 9: Using Digipass FIDO Touch for transactions**

- Switch on and connect your Digipass FIDO Touch with USB or Bluetooth.

- When the Server sends the request, Digipass FIDO Touch asks you if you want to carry out a transaction.

- After you press Yes, you can verify the transaction details:

  With a mobile app, Digipass FIDO Touch displays the details of the transaction for you to approve.

  With a web browser application, you can display the transaction details on Digipass FIDO Touch if the browser supports the FIDO2 transaction extension.

> NOTE
> In case Digipass FIDO Touch is PIN-protected, the PIN verification
> screen is displayed. Enter the Digipass FIDO Touch PIN

## 3.6 Windows 10 & FIDO2

The FIDO2 CTAP specification contains a few optional features and extensions which are crucial to provide a seamless and secure experience.

lists A the features and extensions from the FIDO2 CTAP protocol supported by Digipass FIDO Touch.

Table 3: FIDO2 CTAP features supported by Digipass FIDO Touch

| # | Feature / Extension trust | Why is this required? |
|---|---|---|
| 1 | Resident key | This feature enables the security key to be portable, where your credential is stored on the security key. |
| 3 | hmac-secret | This extension ensures you can sign-in to your device when it's off-line or in airplane mode. |
| 4 | Multiple accounts per RP | This feature ensures you can use the same security key across multiple services like Microsoft Account (MSA) and Azure Active Directory (AAD). |

> NOTE
> You must setup the PIN before registering your Digipass FIDO Touch for Windows 10/Hello.
>
> With its user interface, Digipass FIDO Touch manages the PIN directly.

You can now set up Digipass FIDO Touch as a security key from the cloud panel with your online account page.

For more information on the Windows 10 FIDO configuration and credential issuance (HMAC-secret), please refer to the Microsoft documentation: https://support.microsoft.com/en-us/help/4463210/windows-10-sign-in-microsoft-account-windows-hello-security-key.

# 4  Appendix A: FCC statements

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

> **CAUTION**
>
> **IMPORTANT:**No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.
>
> This device complies with FCC requirements for RF exposure in accordance with FCC rule part §2.1093 and KDB 447498 D01 for portable use conditions.

Figure 11: Digipass FIDO Touch specifications

# 5 Appendix B: Battery recommendation

This product contains a battery, and a printed circuit board (pcb) that may require special handling at end-of-life.

Long term storage for devices with rechargeable batteries should be limited to 1 year after production date. After each year, the battery of the unit must be fully recharged before it can be stored for another year.

> **CAUTION**
>
> Do not penetrate the battery with a nail or other sharp object!
>
> Do not charge the battery at high temperature over 45 degrees Celsius!
>
> Do not immerse the battery in liquid such as water, beverages, or other fluids!