

Digipass[®] FIDO Touch

User Guide

Version:1.04

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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 attacks¹.

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

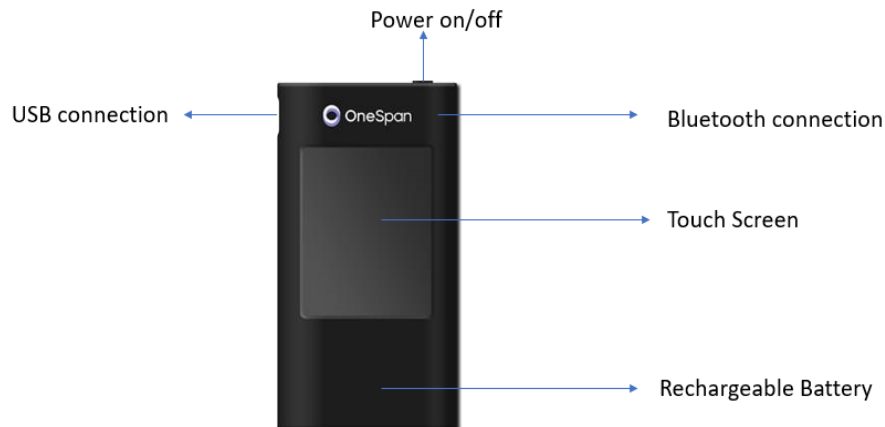


Figure 1: Digipass FIDO Touch



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 • iOS7 or Higher • Android 6.0 or Higher • Windows 10
Operating System /USB connection	• Windows 7 ; Windows 10 • 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:



Figure 4: Start screen when previously paired with your device

2. If you have never paired your Digipass FIDO Touch and used it in Bluetooth mode, you are invited to pair your device with Digipass FIDO Touch.

The screen will inform you that Bluetooth is enabled but there is no paired device and invite you to add the device in the Bluetooth menu.

For more information on the pairing process, refer to [2.6 Pairing Process](#).

- a) Press OK on the touch screen to continue.

To switch off Digipass FIDO Touch, press the Power button.

2.4 USB connection

Included in the product package is a USB cable; plug the Micro USB TYPE B into the connector of Digipass FIDO Touch and the USB TYPE A to your computer.

When you plug the USB cable, the USB icon is displayed on the Digipass FIDO Touch display. After a few seconds Digipass FIDO Touch will enter into [Charge](#) mode. If the battery is empty, the screen displays an empty battery icon. In that case, you can plug in the cable and perform an operation after a few seconds.

The battery will take 90 minutes to fully recharge.

2.5 Digipass FIDO Touch settings

2.5.1 Settings menu

The Settings menu offers you the following actions/information:

- Add Bluetooth pairing platform,
- Set the language of your Digipass FIDO Touch
- Reset Digipass FIDO Touch
- Software version information

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.

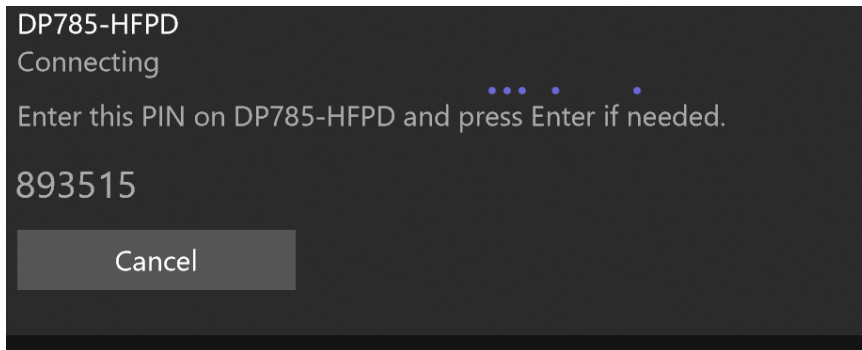


Figure 8: PIN for Bluetooth pairing on Windows 10 device

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, 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.

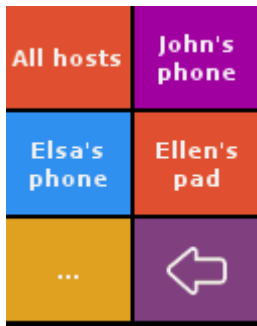


Figure 9: Select host to be deleted

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

FIDO2 supports using a PIN to protect the credentials. As Digipass FIDO Touch provides a touch screen, the credentials are protected on the touch screen, not via the client PIN API (i.e. with a web browser, apps or platform PIN entry).

The credential protection extension is set by default

➤ Procedure 5: Setting the PIN

1. In the main screen, press the Set Pin icon .
2. Enter your PIN.
3. The policy for PIN strength prescribes a length of 6 digits (before validation).
4. Confirm the PIN entry.
5. 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 6: 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 7: 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 8: 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!