

iDENtear Token User Guide

The iDENtear token is a compact authentication device that is used to authenticate the token owner. When the token is taken into use in a process called provisioning, its owner's identification details are stored on a backend iDENtear provisioning server and can then be verified later with the iDENtear token upon request.

In a typical authentication scenario, the iDENtear user needs to prove his identity to access a service or authorize a payment. To do this, the token connects locally over Bluetooth to a client application, which in turn creates an Ethernet connection to the provisioning server. The client software only forms the connection, it has no access to the data sent between the token and the server.

The token contains an internal cryptographic keystore that stores all certificates required for identifying the token and communicating with the provisioning server.

The token can store Bluetooth pairing information from 4 separate external devices.

Operation



The iDENtear token is designed for simple and durable everyday use. It has a single button and 2 LEDs housed inside a dust- and waterproof (IP66) casing.

From a user's point view, the iDENtear token is only used as one end-point of a paired Bluetooth connection. The other end-point of the connection is an external client application that relays all communication from the token to the iDENtear provisioning server for identification and authentication purposes, and vice versa.

The token is operated with the button. In its default state, the token is in sleep mode and does not advertise its own Bluetooth presence or accept external connection requests.

- To establish a Bluetooth connection, press the button.
 - Button press switches Bluetooth Smart advertising on/off. If there is no suitable Bluetooth device in range to form a connection with, nothing happens.
 - Advertising turns off automatically after 20 seconds if no Bluetooth connection has been established.
- To terminate an established connection, press the button.
 - Connection terminates automatically after 60 seconds if no data has been transferred.

The current status of the token is indicated by the LEDs below the button.

Green LED	Red LED	Description
Off	Off	Token is in sleep mode, and can be activated by pressing the button
Blinking 1x /s	Off	Token is advertising and ready to connect
Blinking 2x /s	Off	Token is connected in normal mode
Blinking 3x /s	Off	Token is connected in FIPS approved Crypto Officer mode
Blinking rapidly	Off	Token is communicating
Off	Blinking	Internal error. Return token to helpdesk.
Blinking	Blinking	Battery low. Return token to helpdesk.
On constantly	On constantly	Battery empty. Return token to helpdesk.

Maintenance

Clearing Bluetooth Pairings

To clear all Bluetooth pairings from the device:

- Make sure the token is in sleep mode (both LEDs off)
- Push the button and keep it pressed
- After a moment, the red LED starts to blink rapidly. Release the button.

After the operation, all Bluetooth pairings from the token have been cleared.

Hard Reset

A hard reset can be performed to restore the device to its factory default state. A hard reset flushes the token's keystore, which means that you cannot use the token before re-provisioning it. To do a hard reset:

- Make sure the token is in sleep mode (both LEDs off)
- Push the button once so that the green LED starts blinking
- Push the button again and keep it pressed.
- After a moment the red LED starts to blink rapidly. Keep button pressed
- When the red LED stays on and stops blinking, release the button

After a hard reset, the token's keystore has been flushed, and the provisioning process has to be started again.

Battery and Safety Information

General Precautions

- Normal operating temperature of the device is 0 - 35 °C (32 - 95 °F)
- Do not use or store the device in temperatures above 60 °C (140 °F), even temporarily
- Do not heat the device or leave it under direct sunlight
- Do not puncture, bend or twist the device

Disposal instructions

- Device contains a lithium battery. Dispose of this product in accordance with local and national disposal regulations.

Regulatory Information

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Apply Mobile Ltd of 3-4 Wharfside The Boatyard, Worsley, Manchester, England, M28 2WN, UNITED KINGDOM, declare under our sole responsibility that the product, iDENtear CC1 to which this declaration relates, 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.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Apply Mobile may void the users authority to operate the equipment.

EUROPEAN UNION NOTICE

Radio products with the CE alert marking comply with the R&TTE Directive (1995/5/EC) issued by the Commission of the European Community .

Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 60950 (IEC60950) – Product Safety
- EN 300 328 Technical requirement for radio equipment
- ETS 300 826 General EMC requirements for radio equipment.

To determine the type of transmitter, check the identification label on your Apply Mobile product.

Products with the CE marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (72/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 55022 (CISPR 22) – Electromagnetic Interference
- EN 55024 (IEC61000-4-2,3,4,5,6,8,11)- Electromagnetic Immunity
- EN 61000-3-2 (IEC610000-3-2) - Power Line Harmonics
- EN 61000-3-3 (IEC610000) – Power Line Flicker
- EN 60950 (IEC60950) – Product Safety

Products that contain the radio transmitter are labeled with the CE alert marking and may also carry the CE logo.

Warranty

Apply Mobile Limited One-Year Product Warranty

Apply Mobile warrants this product against defects in materials and workmanship for its warranty period. If a defect is discovered, Apply Mobile will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Apply Mobile dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Apply Mobile; or if any Apply Mobile serial number has been removed or defaced.

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