STid
SMARTER SECURITY ANSWERS

BUILDING THE FUTURE

STID MOBILE ID – HCE PROTOCOL FOR IOS

March 26

READER – PHONE COMMUNICATION

STid Mobile ID enables secure mobile access by communicating with readers over Bluetooth Low Energy (BLE) and Near Field Communication (NFC).

NFC is now fully supported on iOS, removing previous limitations and allowing a consistent, high-security mobile credential experience across both Android and iPhone devices.

BLE : Best for remote, convenience (identification modes) and hands-free access.

NFC : now fully viable on both Android and iOS.

Broadcasting :
The reader broadcasts information such as site code, configuration name, reader type, etc.

Detection phase :
The smartphone scans the broadcasted information (via BLE or NFC) and decides to connect to the reader if the required parameters are met. or error and resumes broadcasting.

Communication initiation:
The smartphone starts the communication by writing to the appropriate characteristic. The reader then stops broadcasting and responds by writing to another characteristic

End of communication:
The communication between the smartphone and the reader ends :

Successful communication:
Authentication is successful and access is granted or not.

Voluntary disconnection

Timeout or error : The reader ends the communication after a timeout or error and resumes broadcasting.

BREAKTHROUGH INNOVATION: NFC ON IPHONE IS HERE !

STid Mobile ID 3.2.0 unlocks :

- NFC authentication powered by HCE (Host Card Emulation)
- Faster, smoother interactions with compatible NFC readers
- Designed for secure environments

Here's what's new :

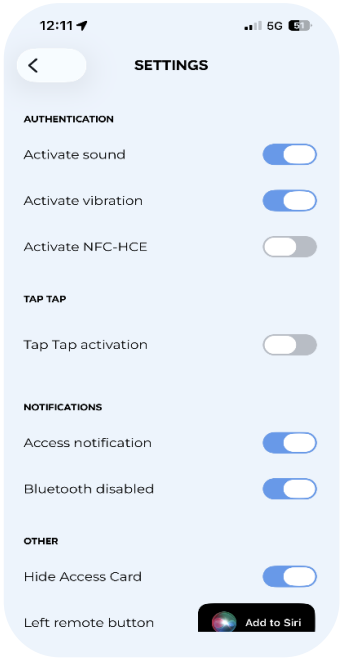
- Full HCE protocol support on STid Mobile ID iOS
- Native NFC communication on iPhone
- Built with Apple compliance and performance standards

HOW TO USE

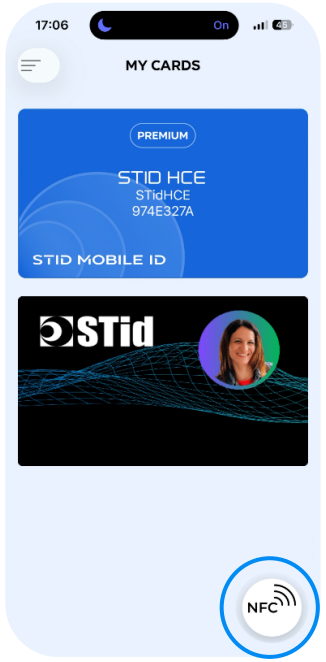
NFC communication is managed at the application level, not at the individual card level.

When the button is activated, STid Mobile ID takes priority over the phone's Wallet for NFC interactions. If not activated, the Apple Wallet remains the default.

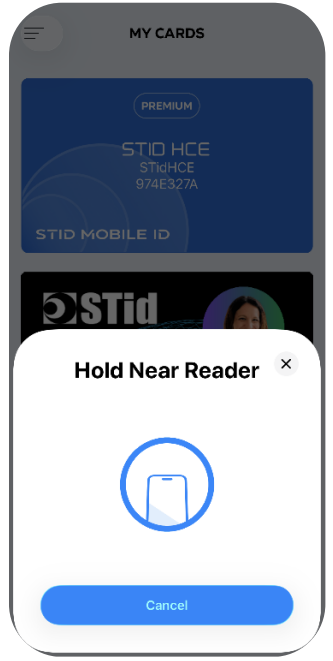
BLE will communicate with the reader unless it is disabled—be mindful of identification modes, especially at longer distances.



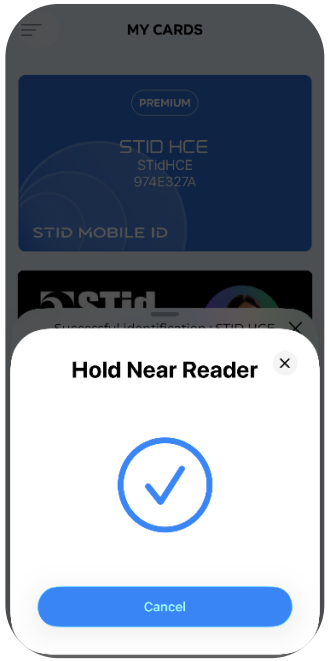
Enable NFC on the SETTINGS MENU
It is disabled by default



User opens the application and prepares the NFC reading by clicking on the NFC button



Tap the phone to the reader



Successful reads display a check mark. If the operation fails, an error message will appear.

READY TO DEPLOY ?

Device Requirements :

- iPhone XS or later
- iOS 17.4 + User located in the **EEA**
- Apple NFC Timing Rule : 15-second active NFC window
- 15-second cooldown before retry

Reader Compatibility :

- SECard SCB & OCB → up to v3.10
- SSCP V2 → firmware Z25
- OSDP → firmware Z21
- ROnly → firmware Z25

Key Deployment Tips :

- Disable BLE (if NFC-only experience required)
- Check reader firmware compatibility
- Test in real-life conditions before rollout

HOW TO USE NFC IOS WITH THE SDK ?

This entitlement has been granted by Apple to STid specifically for use with STid Mobile ID.

Clients who develop their own applications and wish to leverage this feature must request the entitlement themselves through their own Apple Developer account.

All information, process and documentation: Apple Dev Support

VIRTUAL CARD LIFECYCLE

New person

Virtual Card **created by the admin** from the portal or the management system integrating the solution/

5 credits are deducted from the account

En email to **download the virtual card** is sent.

The user **activates the virtual card** by downloading it. It is now available in the STid Mobile ID application

The user downloads the STId Mobile ID application.

Available on the App Store

GET IT ON Google Play

Person leaves

Admin **revokes** the virtual card.

The virtual card is no longer present in the user's phone.
It can be **deleted** from the portal.

+ 5 credits

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IDENTIFICATION TECHNOLOGIES

13.56 MHz based physical credentials in **multiple formats**: cards, key holders, wristbands.

MIFARE

NXP

Virtual Cards on **iOS & Android** smartphones

NFC

STID MOBILE ID

Apple and Google Wallet

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Digital fingerprint recognition to ensure a **strong authentication**

QR code / Barcode to enable the **identification of employees and visitors**

THANK YOU - MERCI