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**Android NFC Chip SDK**  
*Mobile SDKs - Android*

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# 1. Android NFC Chip Reading SDK

## 1.1 Introduction

Taking advantage of the NFC technology of Android devices, the Document capture SDK provides a functionality to read the information present on the ID documents and e-passports.

Thanks to the data lecture from the NFC chip, the document validation is in a superior security level due to the impossibility to falsify the chip.

The SDK of Veridas extracts the information present in the following electronic documents:

- Spanish DNI 3.0
- Any Electronic Passport

Bringing the mobile device closer to the NFC chip present in ID documents and electronic passports, the SDK of Veridas reads the information included in both of them **automatically and without asking the user to introduce any password.**

The information extracted by the SDK is the following:

### DNI 3.0

- Sex
- DNI number
- Nationality
- Name
- Surnames
- Region
- City
- Address
- Date of birth
- Expiry date
- Place of birth
- Picture in color
- Support number

### PASSPORT

- Sex
- Passport number
- Issuing country
- Nationality
- Name
- Surnames
- Date of birth
- Expiry date
- DNI number
- Picture in color

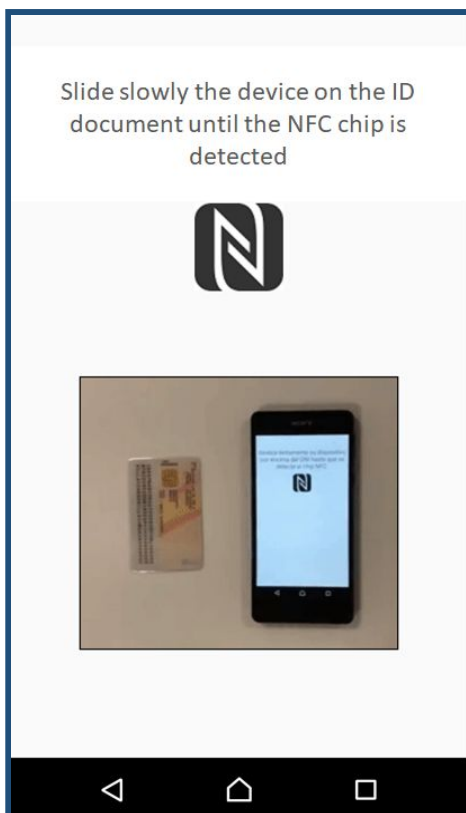
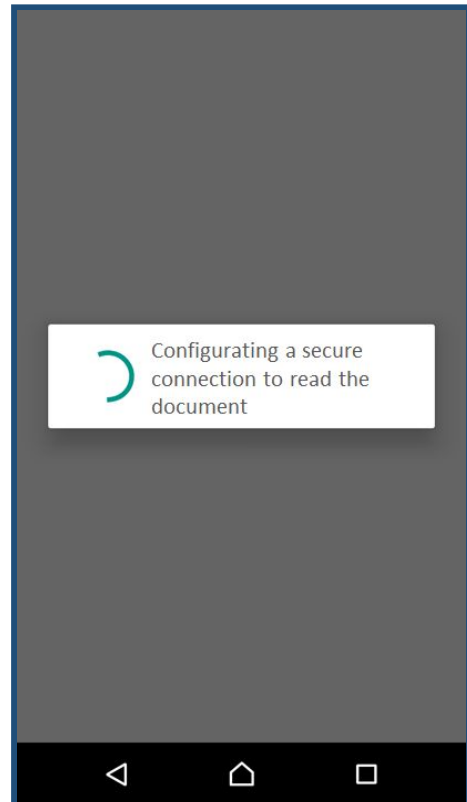
The purpose of this SDK of Veridas is to send the information extracted from the NFC chip to a server in which it will be used to assess whether the document is valid or not. The validation score is obtained after having compared the information extracted from the NFC chip to the information obtained from the document images.

NFC permissions are required to use this framework.

## 1.2 Process

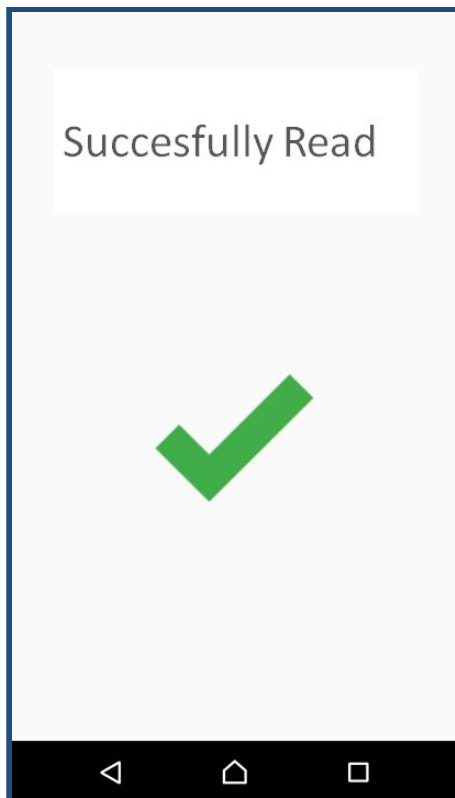
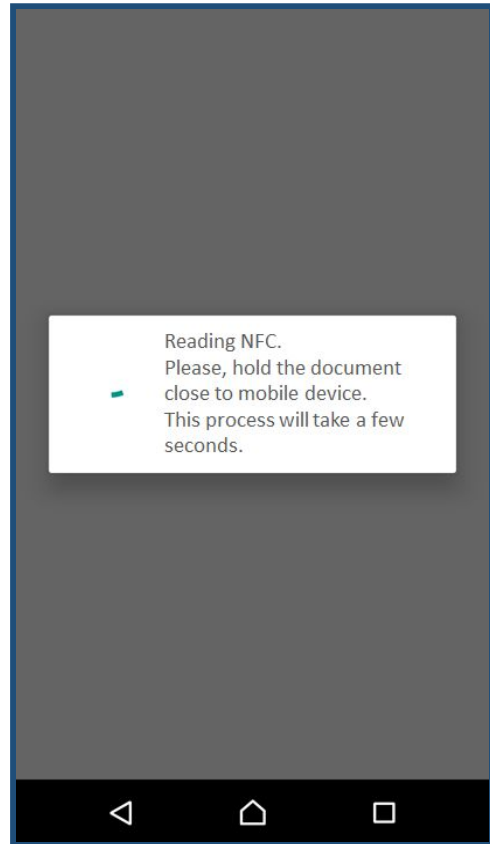
The data reading process of the NFC chip through the mobile device follows the steps detailed below:

The SDK of Veridas will set a secure connection before reading the information contained in the NFC chip of the document.



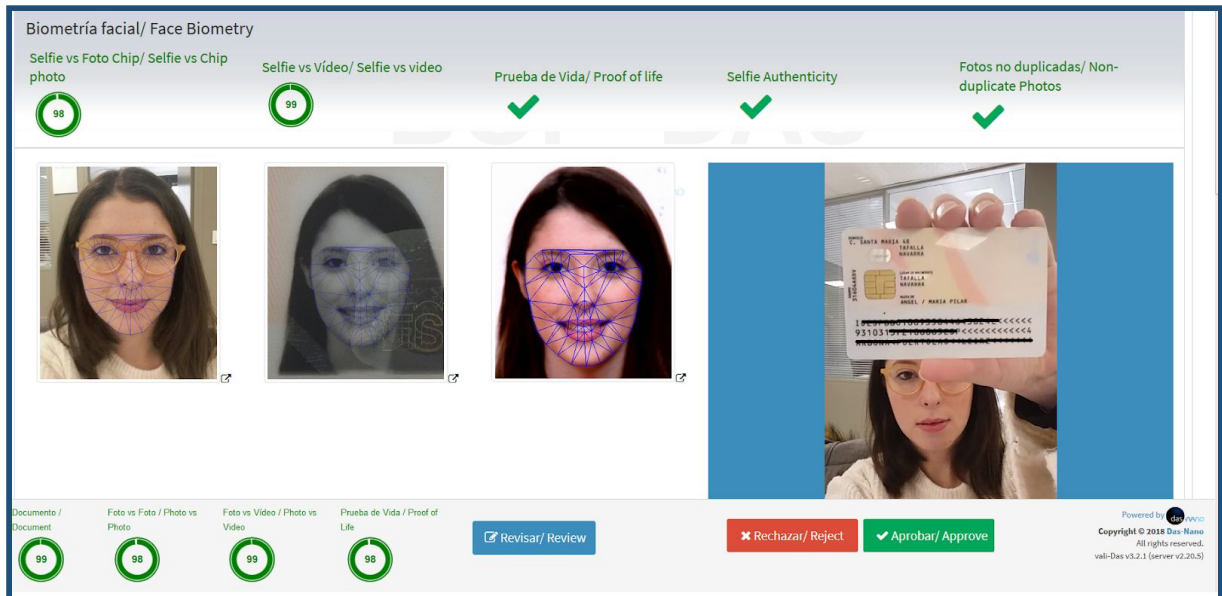
The user will move and place the mobile device on top of the document until the NFC chip presence is detected.

In this step, the reading process of the NFC chip is notified. During this short period of time, it is important to keep the device still and stable.

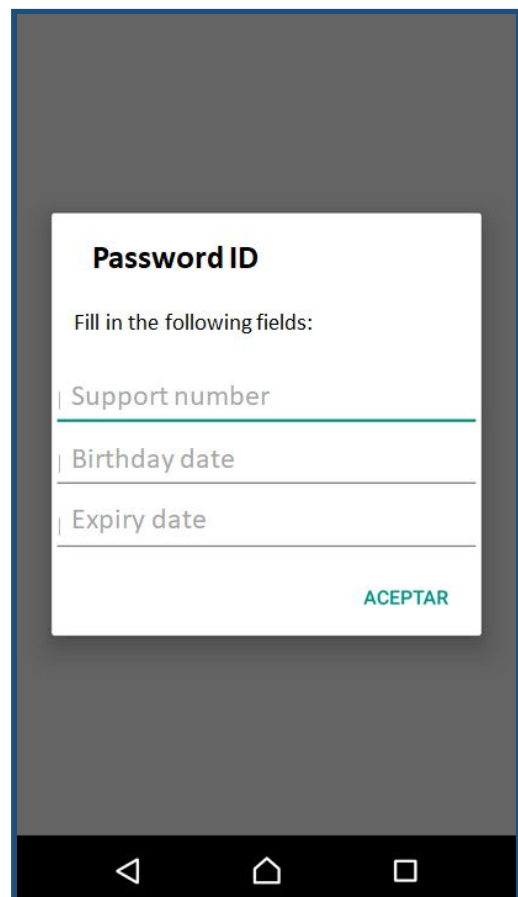


If the information has been obtained successfully a confirmation message will appear on the device's screen and the process will be finished.

As an example, in the following image 3 pictures can be seen: Selfie, document picture, and NFC picture.



If during the reading process, an error appears or the secure connection with NFC chip hasn't been set correctly, a message will appear indicating that the user has to fill in certain fields to get new access.



### 1.3. Specifications

- Android minimum SDK version: 14 (API Level: 4.0 Ice Cream Sandwich).
  - SDK size: 6.4 MB (approx.).