



Android NFC Chip SDK

Mobile SDKs - Android

Revisión	Fecha	Descripción	Redactado	Revisado	Aprobado
1	12/04/2018	Android NFC Chip SDK Documentation	SGP	EMR	EAL

1. Android NFC Chip Reading SDK	3
1.1 Introduction	3
1.2 Process	5
1.3. Specifications	9

1. Android NFC Chip Reading SDK

1.1 Introduction

Taking advantage of the Android devices' NFC technology, the Document capture SDK presents 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.

Veridas' SDK 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, Veridas' SDK reads the information present 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 colour
- Support number

PASSPORT

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

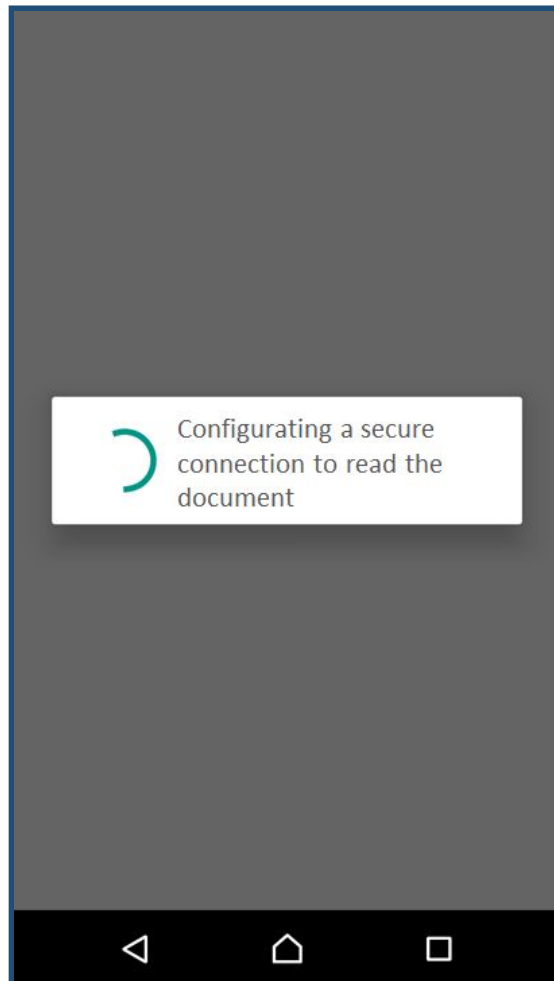
The purpose of this Veridas' SDK is to send the information extracted from the NFC chip to a server in which it will be used to assess whether the document is valid or not. The validation score is obtained after having compared the information extracted from the NFC chip to the information obtained from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

NFC permissions are required to use this framework.

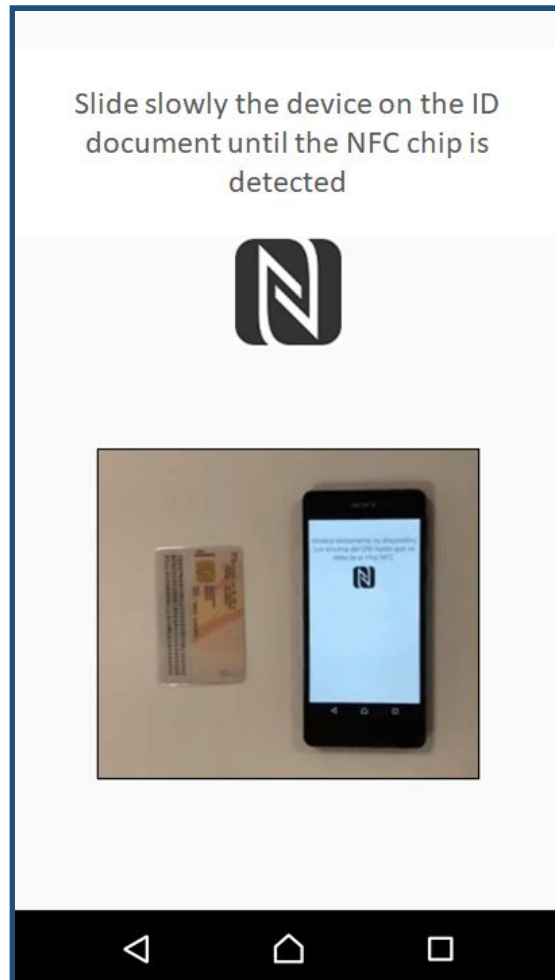
1.2 Process

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

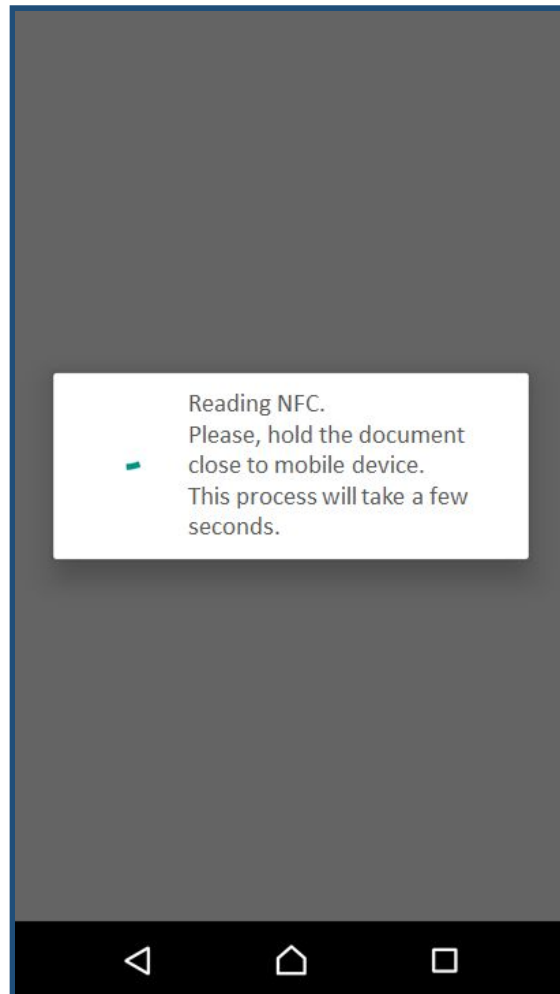
- Veridas' SDK will set a secure connection before reading the information contained in the NFC chip of the document:



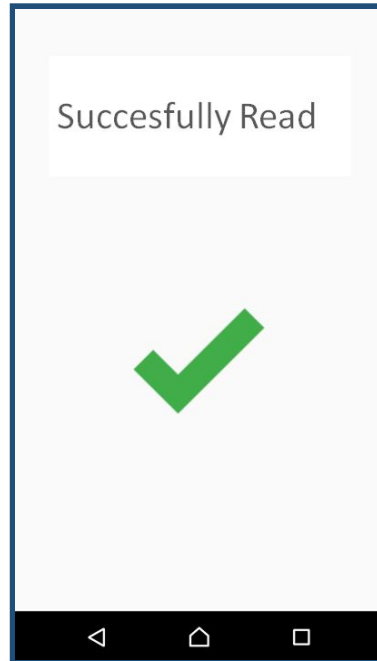
- The user will move and place the mobile device on top of the document until the NFC chip presence is detected:



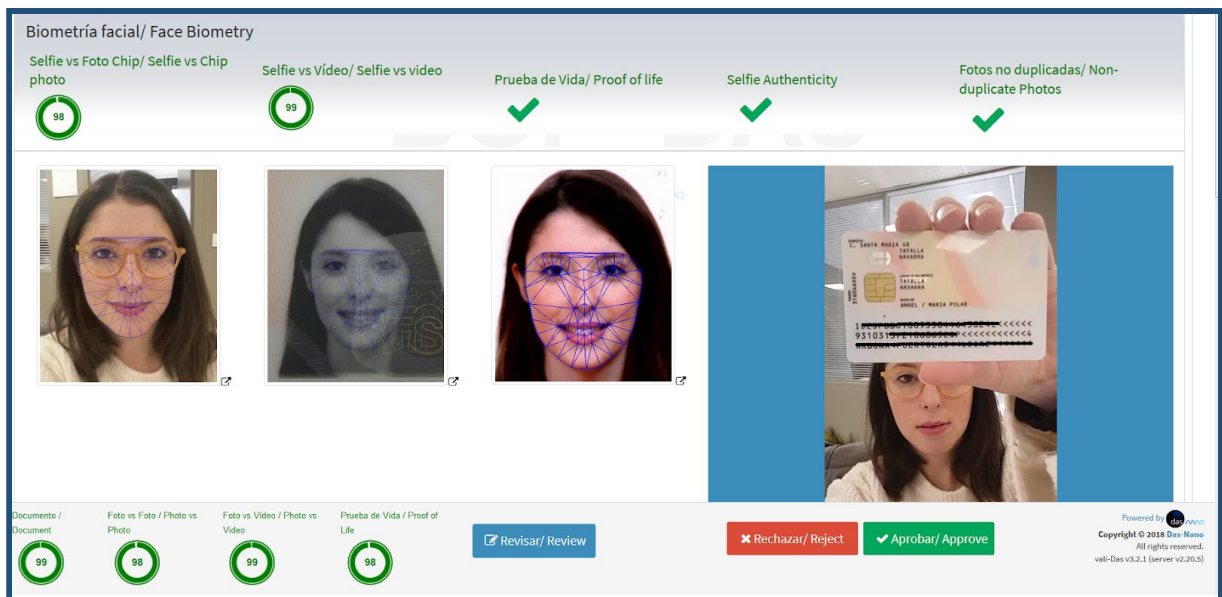
- In this step the reading process of the NFC chip is notified. During this short period of time, it is important to keep the device still and stable.



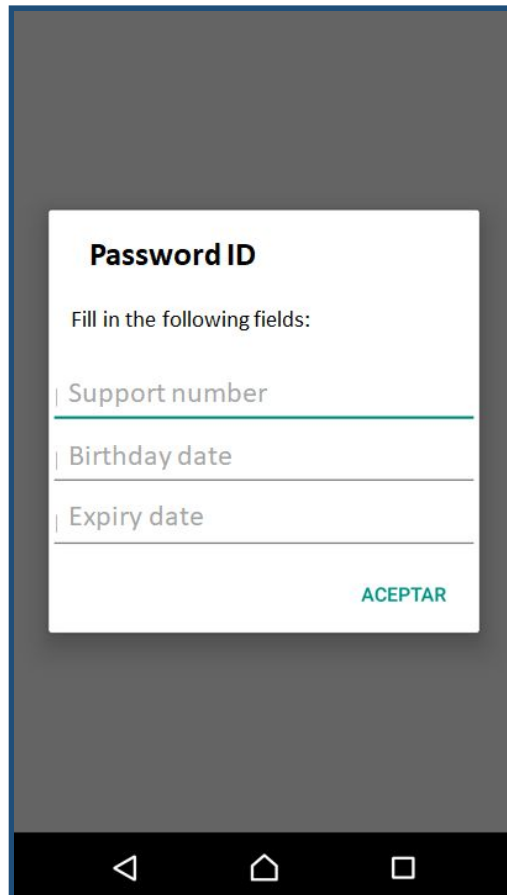
- If the information has been obtained successfully a confirmation message will appear on the device's screen and the process will be finished.



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 a new access.



Password ID

Fill in the following fields:

Support number

Birthday date

Expiry date

ACCEPTAR

1.3. Specifications

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

