AUTOMATIC ID DETECTION AND CAPTURE SDK

1. Automatic capture and detection of the document SDK

1.1. Mobile SDKs - iOS and Android

The automatic capture and detection of the document SDK are launched by the APP. This SDK will only launch the capture of the document if there is enough evidence of its validity so images different than valid documents will not be captured (landscapes, non-valid documents to the identification...). Consequently, non-useful data traffic is reduced.

Furthermore, the automatic documental capture SDK has integrated a powerful guidance system to assist the user during the process. This system ensures positioning the document in an optimal way for its validation.

The image on the left represents a screen capture of the SDK indicating that the capturing device is too far from the document. The image on the right represents a good positioning of the capturing device so the application is asking the user to remain still.

In addition, a functionality that detects the existence of brightness in the detected image of the document has been implemented. This functionality warns the user with a message indicating that the amount of brightness is excessive for a correct reading of the document data.

Camera permissions are needed to use the framework.

1.1.1. Technical requirements

The minimum requirement is:

- iOS minimum operating system version: 9.0.
  - Flash camera and torch mode can be required for several functionalities.
  - Image is resized to 8MPx and file size is normally smaller than 1.5MB.
  - Supported architectures: 'armeabi-v7a', 'arm64-v8a', 'x86', 'x86_64'
  - SDK size per architecture (the user device only adds MB of one of the following arquitectures):
    - armeabi-v7a: 15 MB.
    - arm64-v8a: 15 MB.
    - x86: 7 MB.
    - x86_64: 7 MB.
  - The use of the Photo Selfie SDK and/or Video Selfie SDK, in combination with the Document Capture SDK, does not add just more MB to the user device).
- Android: minimum operating system version: 14 (API Level: 4.0 Ice Cream Sandwich).
  - Flash camera and torch mode can be required for several functionalities.
  - Image captured is the biggest image which aspect ratio is similar to the screen aspect ratio with 8MP maximum. (~350KB-750KB).
  - Supported architectures: 'armeabi-v7a', 'arm64-v8a', 'x86', 'x86_64'
  - SDK size per architecture (the user device only adds MB of one of the following arquitectures):
    - armeabi-v7a: 4 MB.
    - arm64-v8a: 5 MB.
    - x86: 16 MB.
    - x86_64: 25 MB.
  - The use of the Photo Selfie SDK and/or Video Selfie SDK, in combination with the Document Capture SDK, does not add just more MB to the user device).

1.2. HTML SDK

The automatic capture and detection of the document HTML SDK will only launch the capture of the document if there is enough evidence of its validity so images different than valid documents will not be captured (landscapes, non-valid documents to the identification...). Consequently, non-useful data traffic is reduced.

Furthermore, the automatic documental capture HTML SDK has integrated a powerful guidance system to assist the user during the process. This system ensures positioning the document in an optimal way for its validation.

This SDK retrieves the following information:

- Document obverse (front side) image.

- Document reverse (back side) image.

The SDK tries to capture the document images taking into account the device which is working on.

- The rear camera is used on mobile devices (smartphones, tablets...)
- The front camera is used on computers (desktops, laptops...)

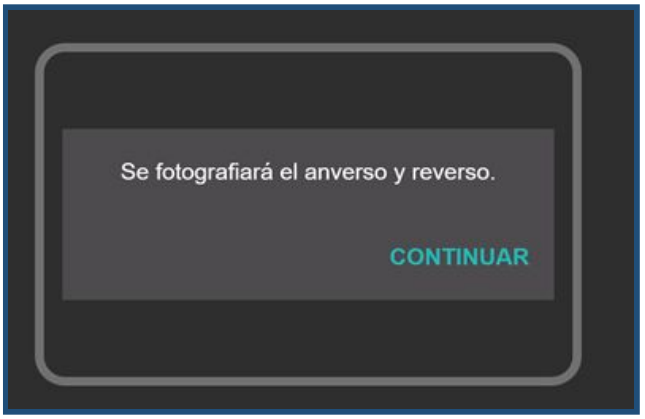
The following permission is required by the framework to work:

- Camera and micro.

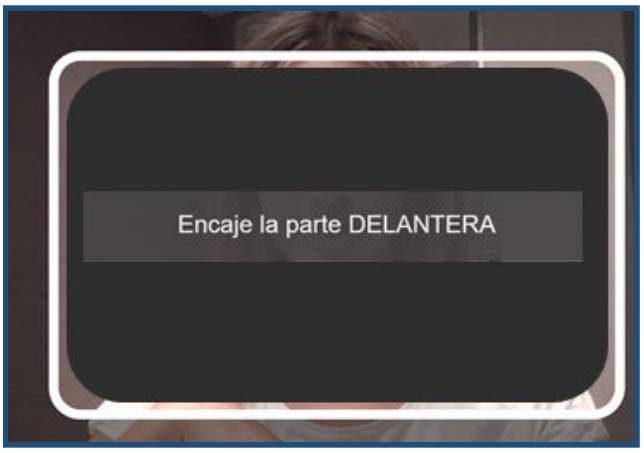
The sequence and images below represent the process that the user will follow in the automatic an assisted process developed by Veridas:

1. Select the country and the document type

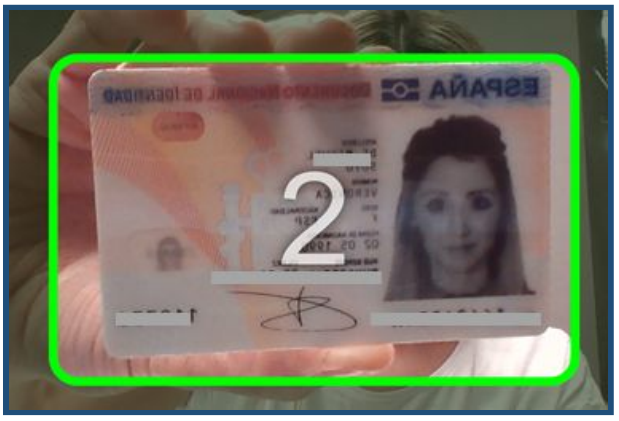
2. The App warns the user that two photographs of the document will be taken.



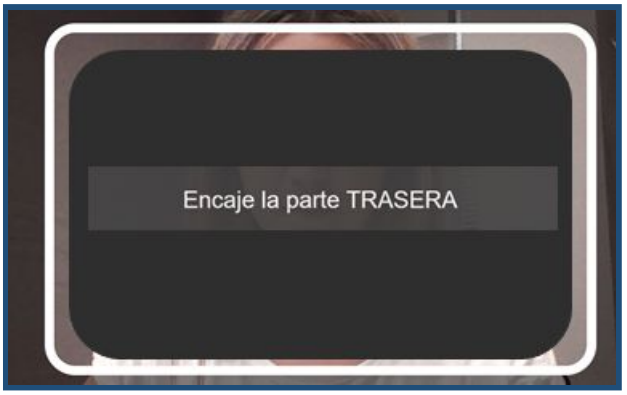
3. Adjust the front side of the document to the green frame until the automatic capture is completed



4. Front side capture illustration



5. Adjust the back side of the document to the green frame until the automatic capture is completed



6. Backside capture illustration

7. The app asks the user to continue or repeat the process

1.2.1. Technical Requirements

- SDK size: 9,5 MB.

1.2.2. Specifications

The SDK has been designed to maximize compatibility and performance across a broad spectrum of devices and browsers.

Desktop devices			Mobile devices		
Browser Name	Minimum Version	Current Version[1]	Browser Name	Minimum Version	Current Version[1]
Chrome	53	66	Chrome for Android	-	66
Firefox	36	60	Firefox for Android	-	60
Opera	40	53	Opera Mobile	12.2	37
Safari	11	11.1	iOS Safari	11.2	11.3
Vivaldi	-	1.15	Samsung Internet	5	6.2

The minimum version available depends on the device's platform. Due to the diversity of Android devices is difficult to determine a minimum available version.

The recognized documents by the SDK have the TD1 format. Accordingly, to the ISO/IEC 7810 these documents have the following size (85.6 × 54.0 mm).