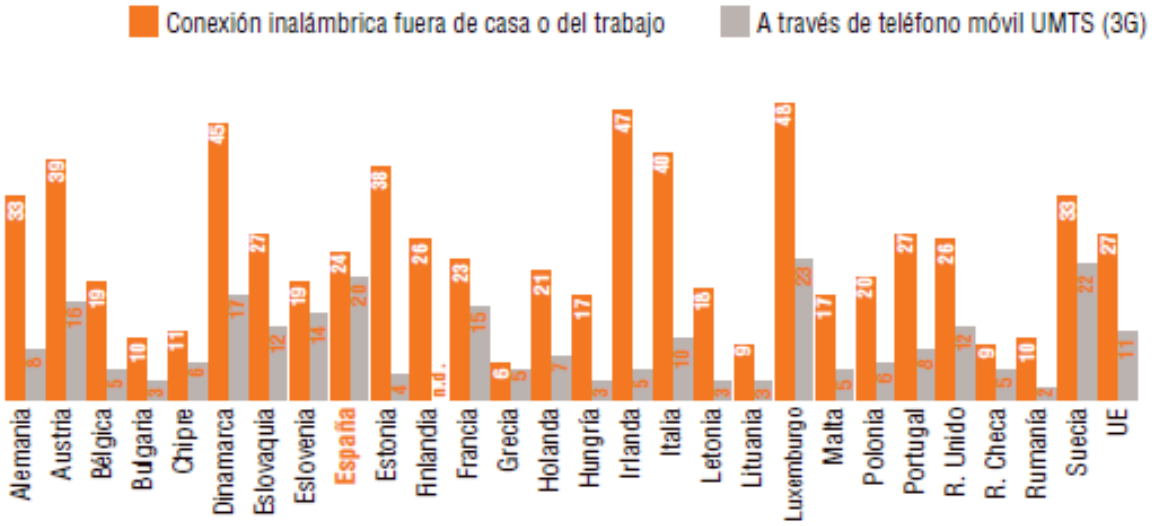
Mobile devices for interacting with Public Administrations

Spanish eID initiatives

Reykjavik May 2013

¿Why thinking of mobile devices?



Luxembourg, Swedeen and Spain are the EU countries with the highest rate of 3G access to Internet

(Eurostat, 2010)

SERVE THE CITIZEN

65% of mobile Internet users in Spain access to it by means of apps

(AMETIC-Accenture, 2011)

¿Why thinking of mobile devices?

- Rights recognised by 11/2007 Law (Citizens' electronic access to public services)

"ensuring in particular universal accessibility, designed for all media, channels and environments with the objective that all members of the public shall be able to exercise their rights under equal conditions "

- Complete accessibility to all services
- Equal treatment
- Freedom to choose the technology and therefore the applications to interact with Public Administrations
- Obtaining the electronic identification means required for making use of the services

LEGAL FRAMEWORK

@firma mobile client

Access and Procedures processing by means of mobile devices

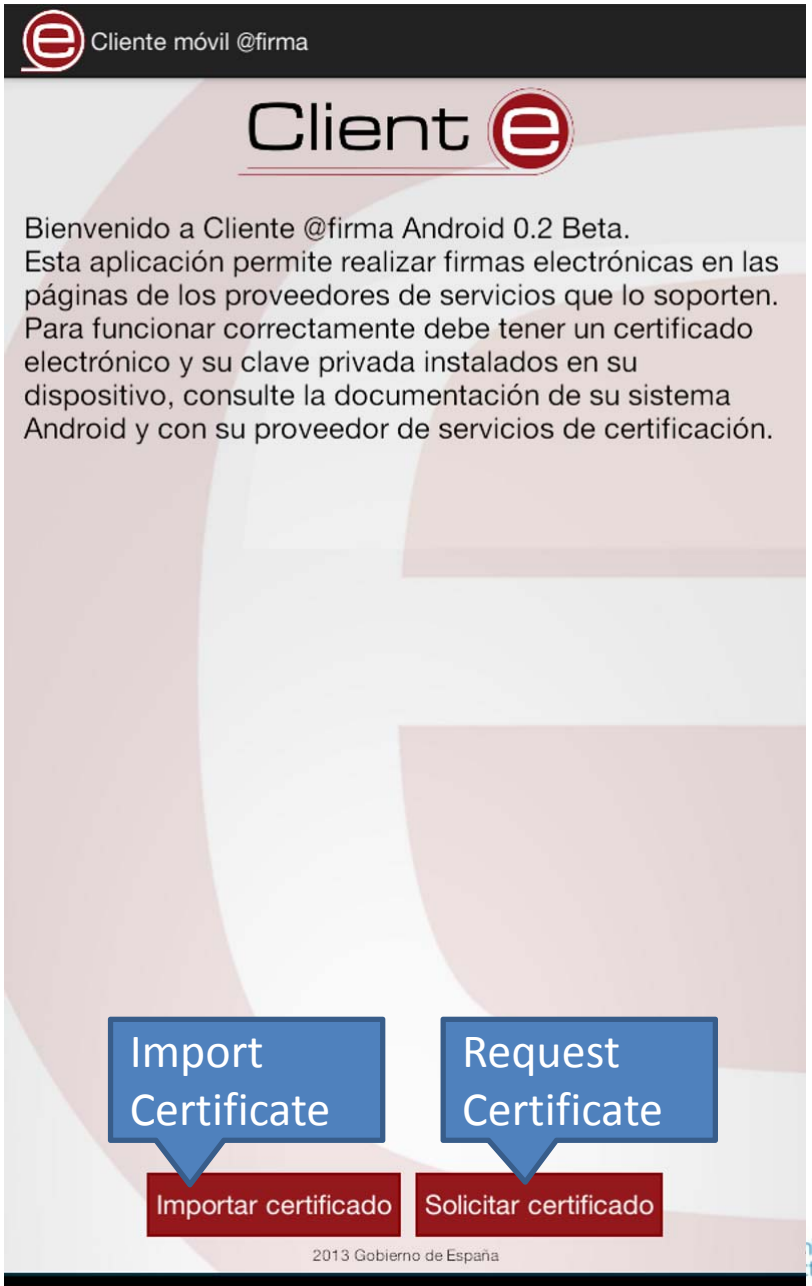
eGovernment services require electronic signature

@firma is the certificates validation platform for the Spanish National Administration
It manages +100 electronic certificates from 22 certification authorities

@firma client is an electronic signature tool that functions as a Java applet embedded in a web page using JavaScript

Mobile client @firma is a new initiative for developing APPs for using electronic certificates in mobile devices, under the following principles

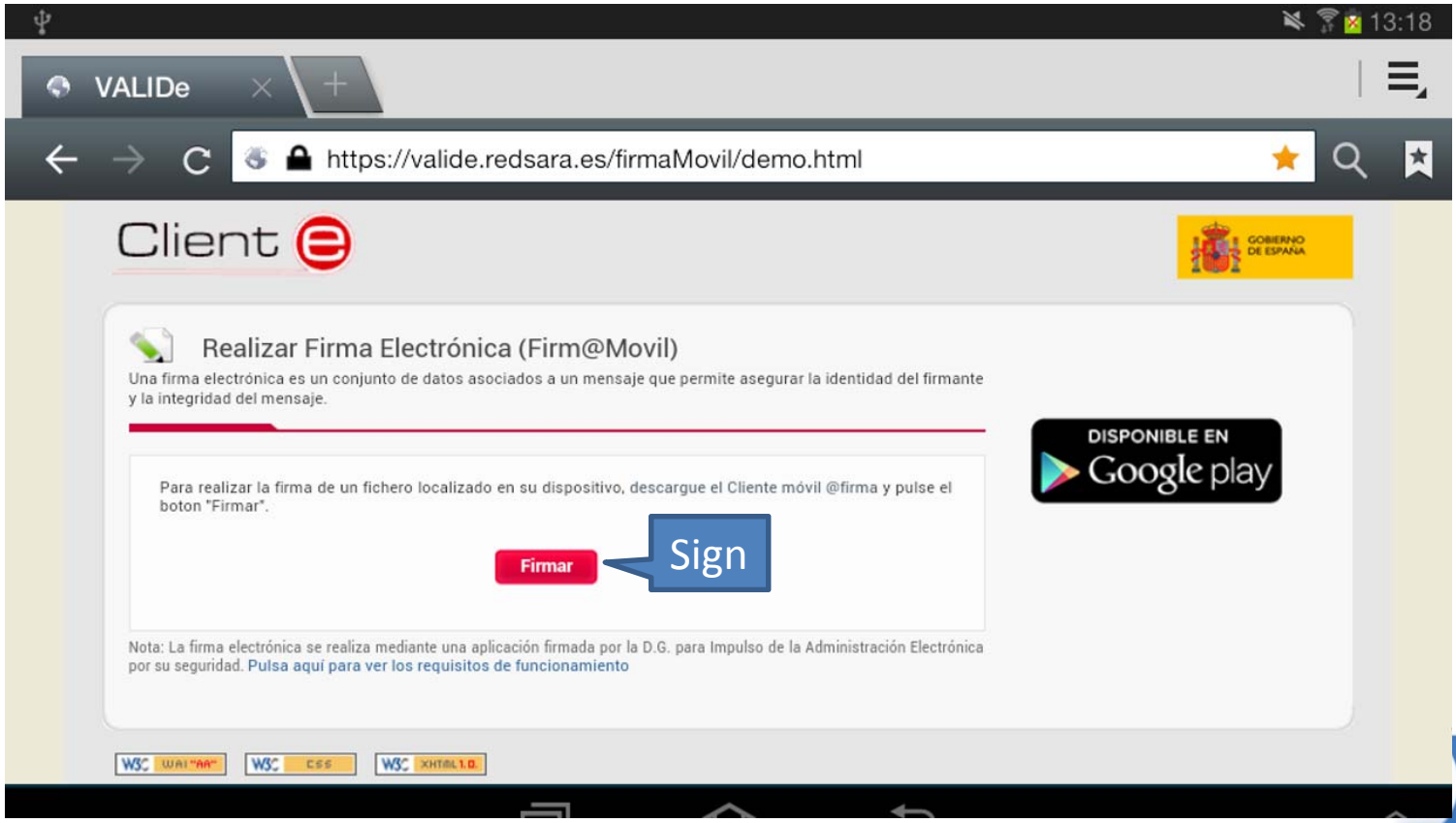
- Collaboration among different Administrations
- Reusing efforts
- Low impact adaptation of current applications



With mobile @firma, certificates are also in the mobile device

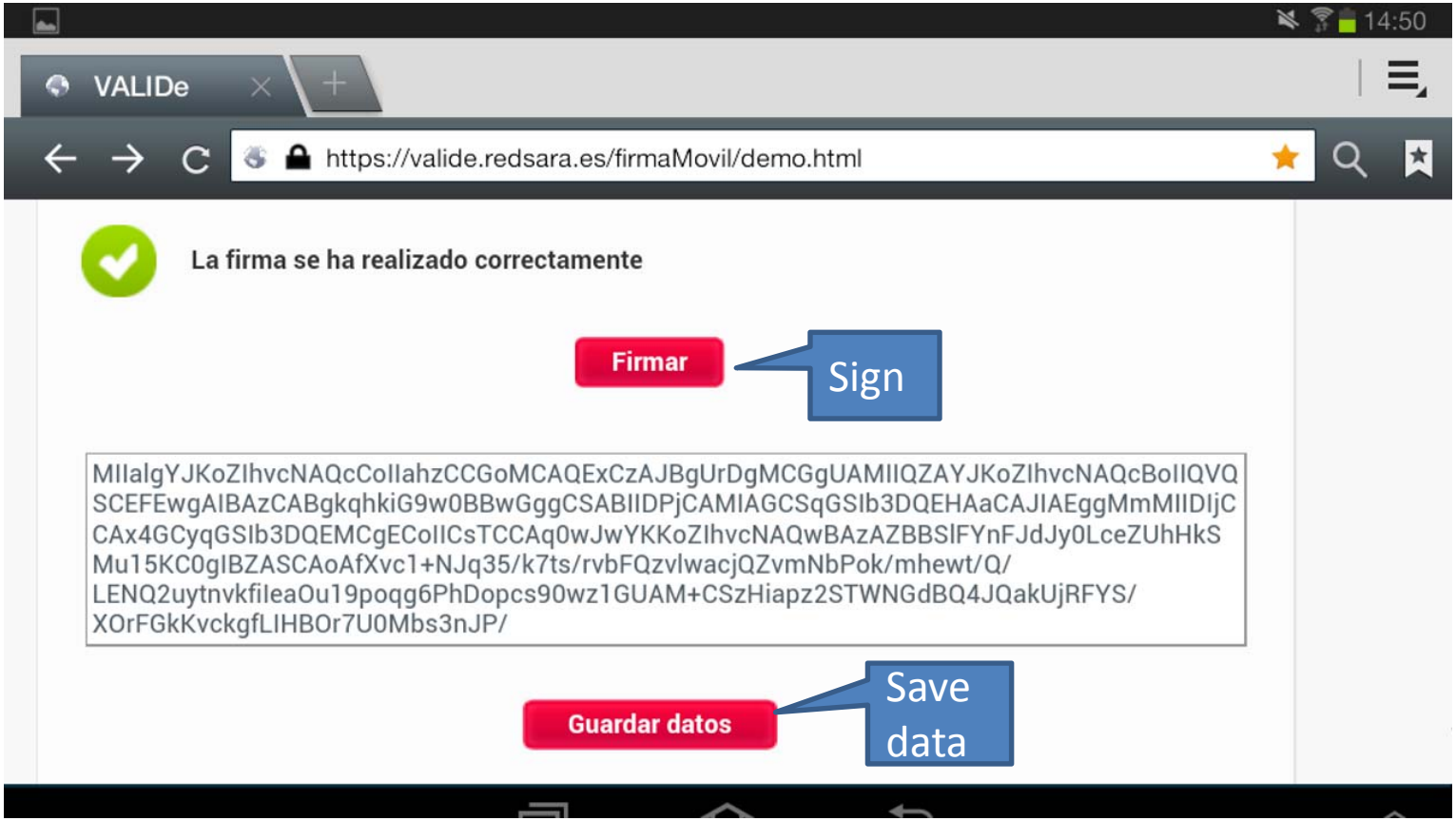
With @firma mobile client, by detecting the citizen's mobile device platform, and with a user-friendly experience, complete administrative procedures can be performed using electronic signature

Both files located in the mobile device and online forms are signed, using the certificates installed in the citizen's device



With mobile @firma, certificates are also in the mobile device

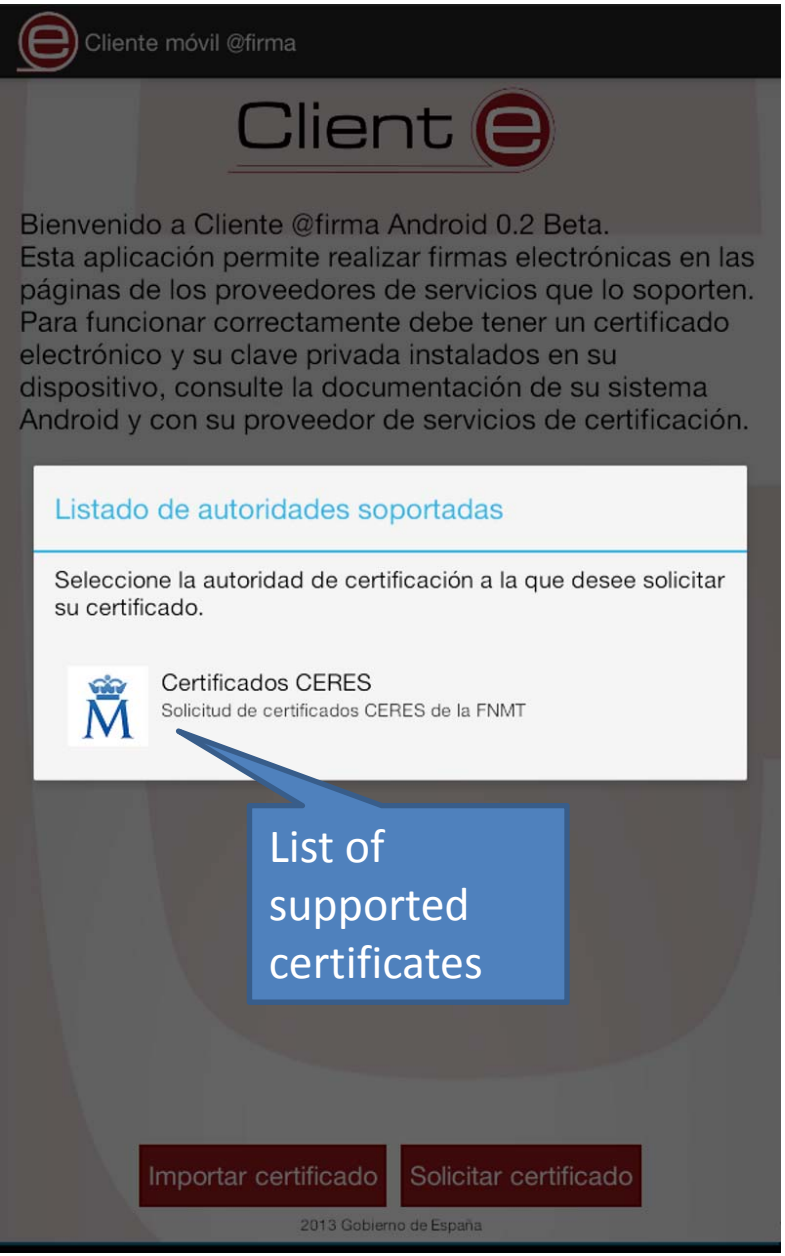
Data are sent without interruptions, avoiding problems with user experience. Currently, CADES signature available, but shortly it will also available for PADES



With mobile @firma, certificates are also in the mobile device

Already available on Android, available soon on iOS (Apple)
Also available for Windows 8, in a project led by the AEAT (tax agency) in CTT collaborative environment (e.g. collaboration between administrations and reuse efforts with free SW)

With mobile @firma, certificates are also in the mobile device



Mobile @firma app allows to access the certificates stored in the device

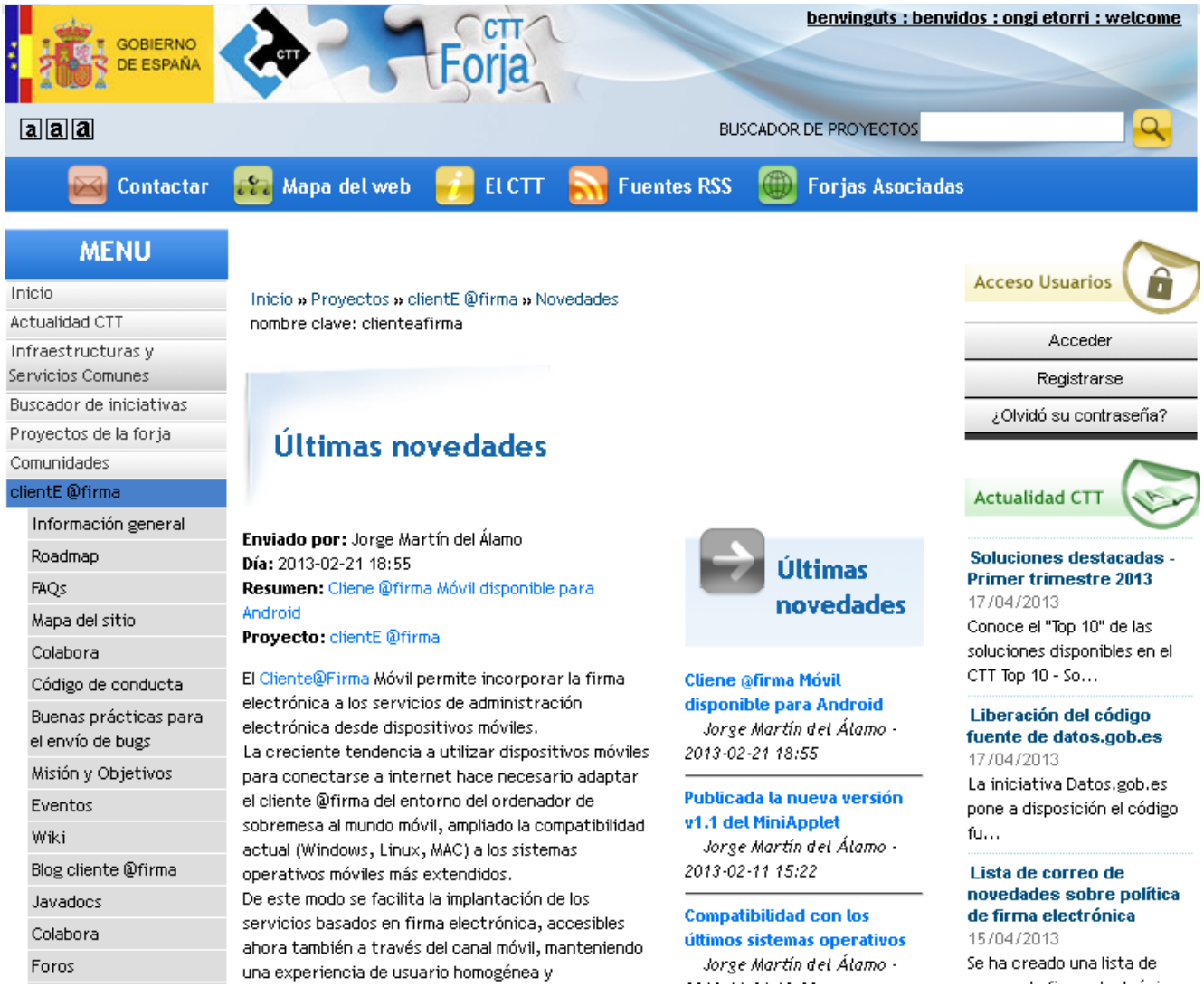
It also allows to link to the apps of the certification services providers that have these apps available

Currently, mobile @firma links to the app for using mobile certificates provided by the FNMT (National Mint)

Information available in the CTT (Technology Transfer Center)

CTT Technology Transfer Center is foreseen in 11/2007 Law as a tool for sharing knowledge and reusing SW among Spanish Public Administrations

All the information, the source code and the forge are available to other Public Administrations in the CTT



Mobile Port@firmas

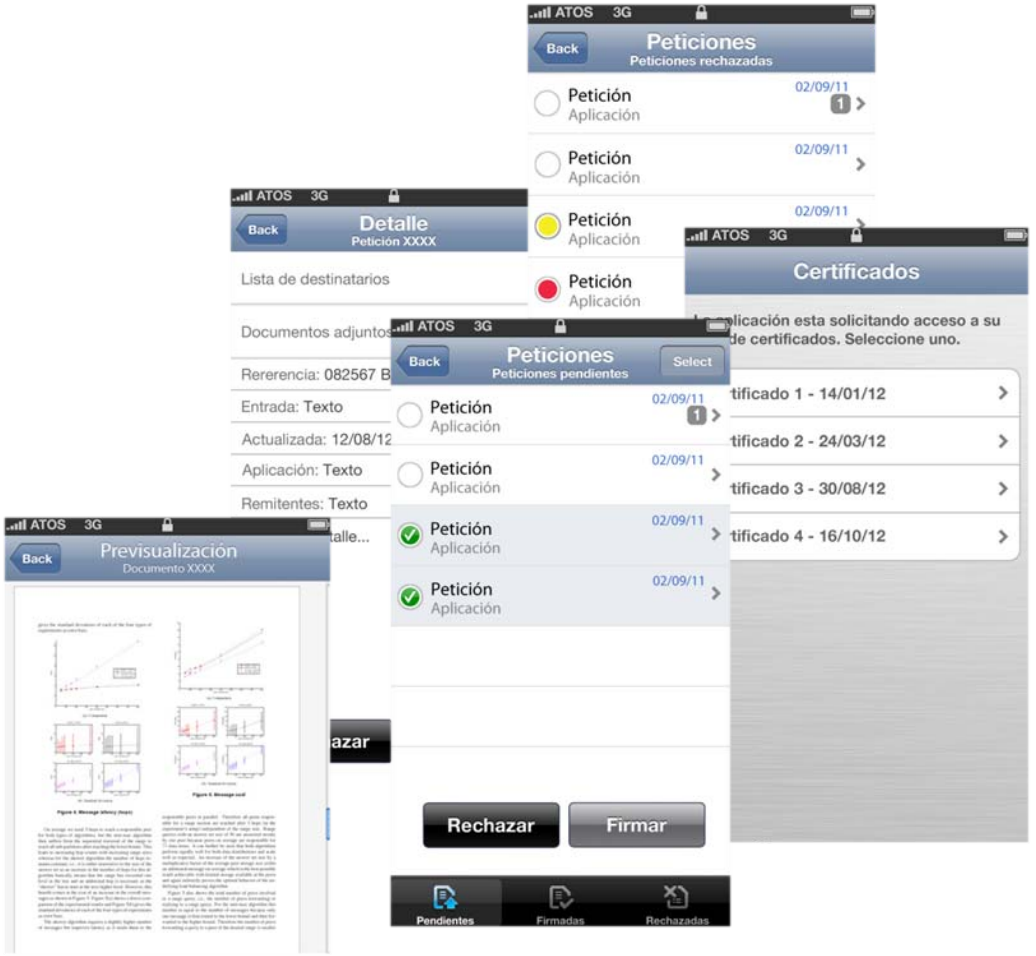
Services based on mobile electronic signature

Mobile port@firmas

- Corporate solution for mobile signature
- Compatible with the existent signature application for PC
- Access from smartphones and tablets.
- Certificate authentication
- Review and signature of documents

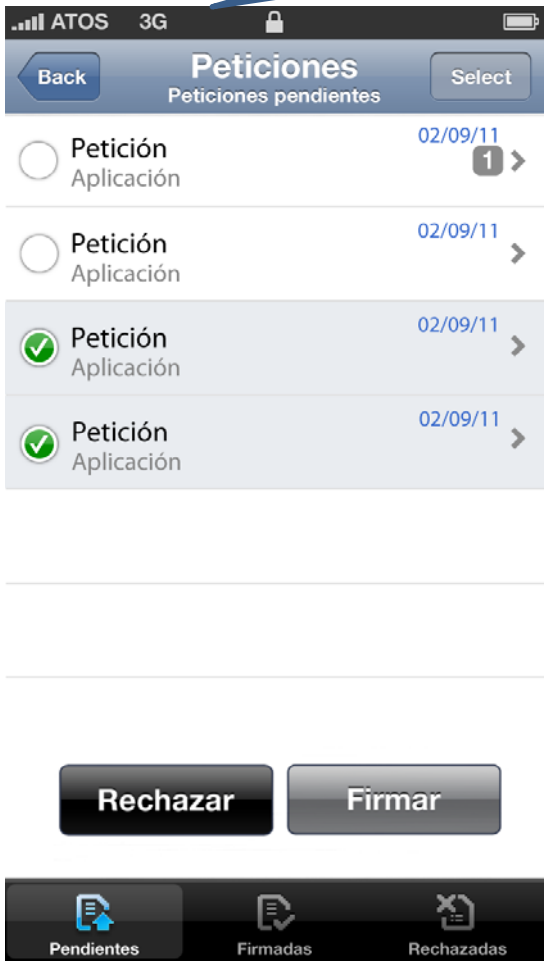
Port@firmas functions

- Certificate authentication
- List with the pending, signed and rejected signature requests
- Access to the request detail
- Mass signature requests
- Document viewing

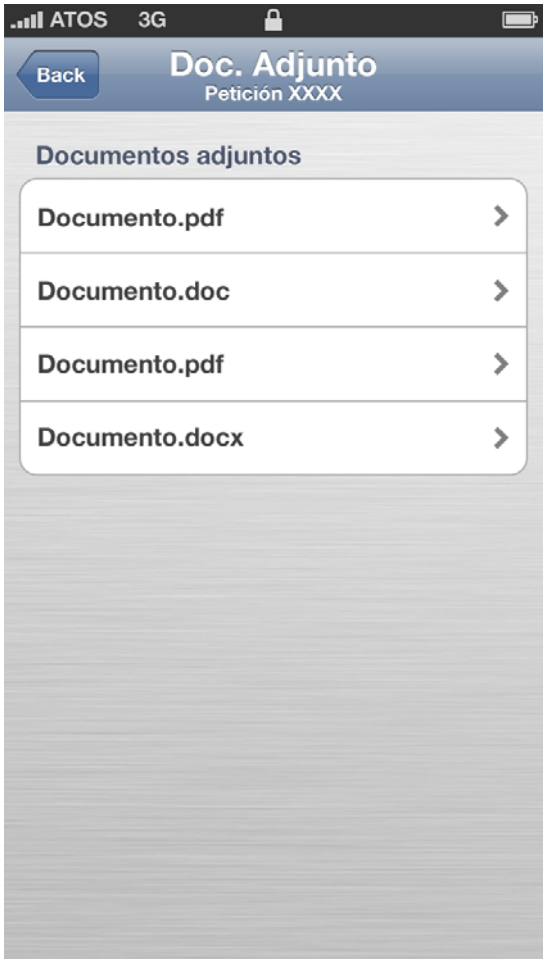


Screenshots

List of signature requests



Enclosed documents



Document preview

Screenshots

Certificate selection

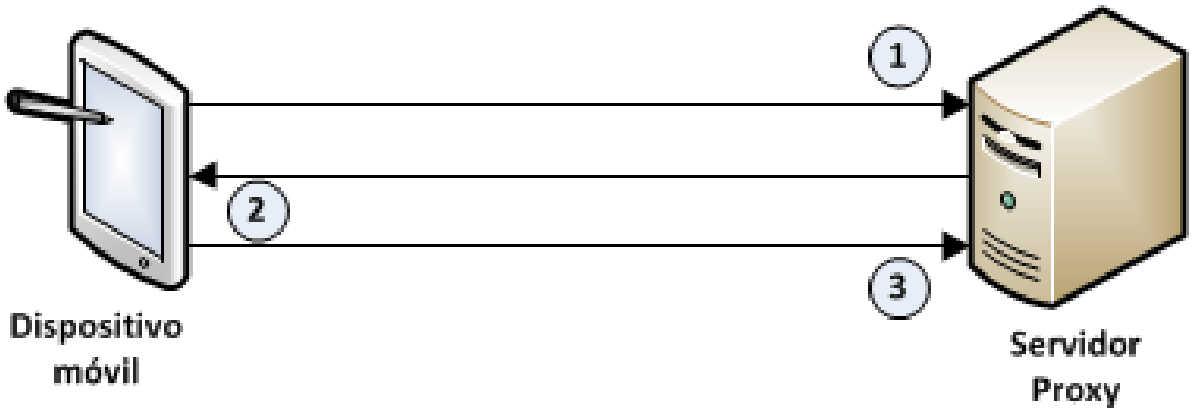
Certificate selection

Features

- App easy to use with the interface appropiate to each mobile platform (currently Android 4)
- Use of the Android 4 central store certificate
- Use of personal certificates for the authentication of users, against the Portafirmas, only for registered users
- Three phase system. Minimum transfers of data (request and documents to sign identifiers)
- Advance electronic signature in CAdES format, extensible to other formats

Signature process

- 3phase signature for minimum transfer of data



1. Signature request and composition of the signature data in the server

   The server composes the pre-signature according to the configuration established from the Client

2. Minimum information for the realization of the signature is sent to the device

   Document hash, signature certificate, signature time…

3. Sending of the signature to the server for the composition of the electronic signature

   The server composes the signature and sends it back to the port@firmas

Elements

- **Port@firmas**
  - Component for the integration of the signature process in the work flows
  - Currently used by the PC application
  - New services developed for specific use in mobile devices
- ***Proxy component***
  - Web application for the connection between the mobile device and Port@firmas
  - 3 phase signature service
- **Mobile Port@firmas**
  - App for mobile devices

MiDNIe

Using DNIe in mobile devices

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Instituto Nacional de Tecnologías de la Comunicación

- **DNI – National document of Identity**
  - Mandatory as an identification means of nationals
  - DNI number associated (unique, persistent)
  - Used widely as identifier
- **DNIe**
  - New generation of DNI in a smart card
  - Usable in electronic environments
    - Authentication certificate
    - Signature certificate
  - Citizens' right to use it in their interactions with Public Administrations (Law 11/2007)
    - Obligation for the Public Administrations to accept it in their eGovernment applications

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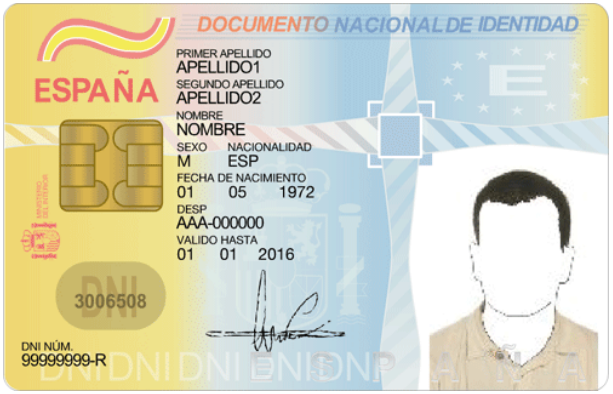

Concept

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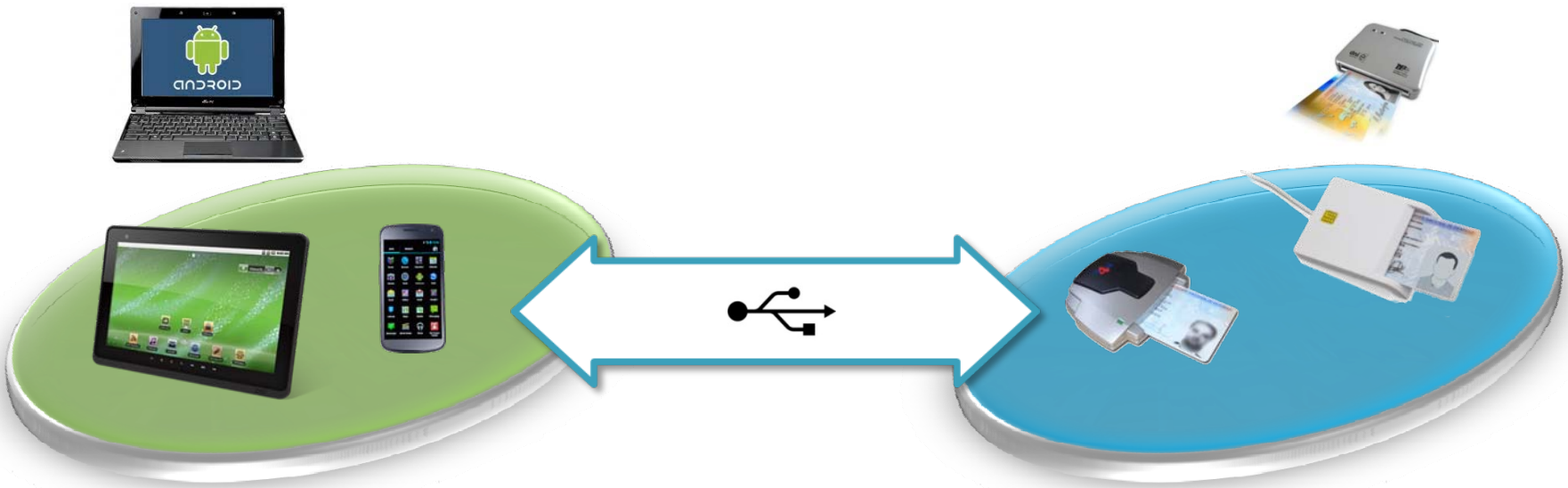
Interaction of Android devices with the DNIe for authentication and signature, using a standard USB reader



R&D project led by INTECO

Background – Previous projects

Java controller for the DNIe

Controlador Java para DNIe

ANDROID

Asistente de instalación del DNIe

DNI DROID

Conan Mobile

DNIe installation assistant

App for assessing mobile devices security

Feasibility

The feasibility of the project has been demonstrated through the proof of concept performed

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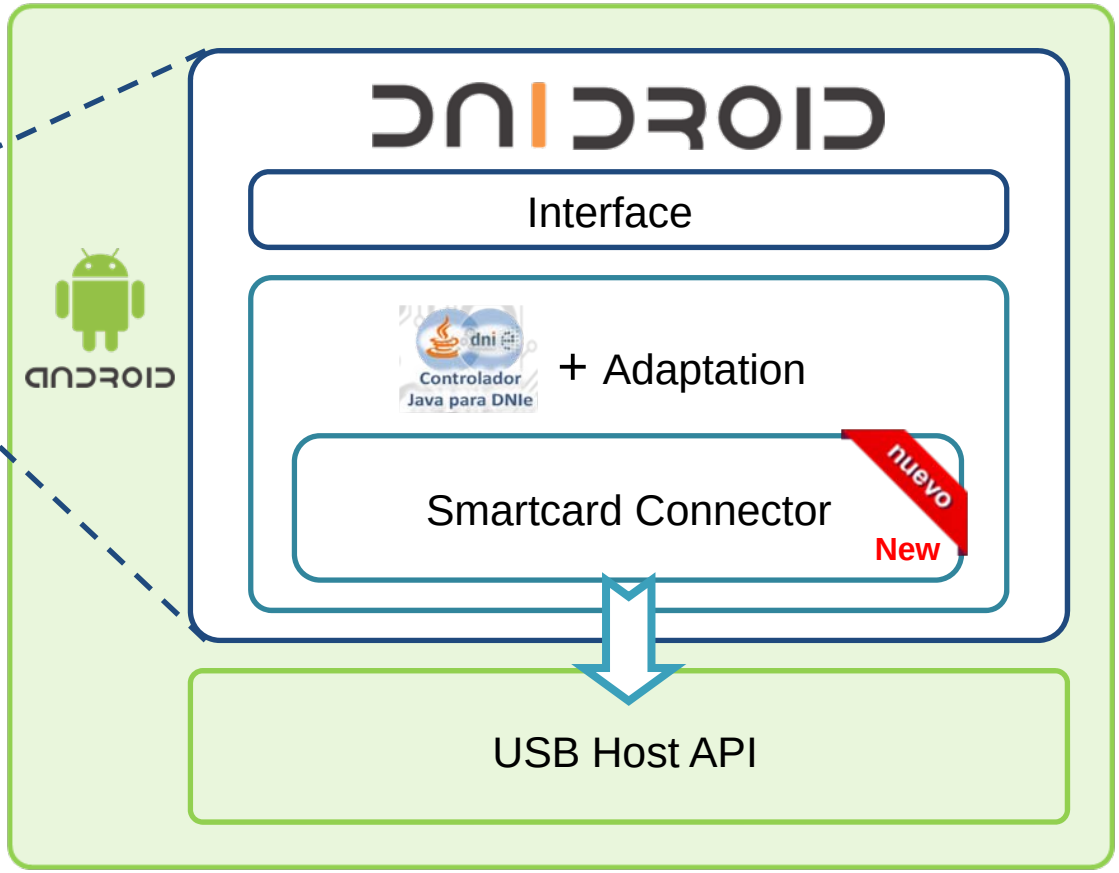

Standard USB reader (compatible with CCID, which is typical) + USB adapter (if required)

Results

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Proof of concept (video):

http://www.youtube.com/watch?v=QB2GJLhzdeg

Demonstration application "Mi DNIe" in Google Play:

https://play.google.com/store/apps/details?id=es.inteco.labs.dnie.android.midnie

Allows to interact with the DNIe in Android terminals using internally source code from DNIeDroid project. It provides access to some services that require DNIe

- Working Life report (Social Security)
- Checking the balance of the Driver's license points (Traffic)

DNIeDroid source code publication

http://zonatic.usatudni.es/aplicaciones/dniedroid

It will allow companies and developers to easily create Java based applications that make use of the DNIe

Thank you

http://administracionelectronica.gob.es