

INFORMATION TECHNOLOGY COMMITTEE

ESCB-PKI PROJECT



ESCB-PKI REGISTRATION AUTHORITY APPLICATION

SUBSCRIBER'S MANUAL

VERSION 3.0

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Release number	Status	Date of issue	Revisions
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0.02	Draft	20.10.2011	Several additions.
0.03	Draft	31.10.2011	BdE Revision
0.12	Draft	28.11.2011	BdE Revision
1.0	Draft	22.02.2012	Version distributed at the workshop
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GLOSSARY AND ACRONYMS

Acronym	Definition
CA	Certificate Authority
CB	ESCB Central Bank (ECB or NCB)
CP	Certification Policies
CPS	Certification Practice Statement
CRL	Certificate Revocation List
ECB	European Central Bank
ESCB	European System of Central Banks, including the ECB and the NCBs of all States member of the European Union (whatever they use the Euro or not).
ESCB-PKI	European System of Central Banks - Public Key Infrastructure
IAM	Identity and Access Management
NCB	National Central Bank
PKI	Public Key Infrastructure
RO	Registration Officer
RA	Registration Authority

1. INTRODUCTION

This document aims at providing information on how to use the ESCB-PKI Registration Authority application developed as part of the ESCB-PKI project that delivers a series of PKI services to ESCB and non-ESCB members.

1.1. THE ESCB-PKI WEBSITE

From this Website you can have access to the ESCB-PKI services and you can also find additional information connected to certificate management, token management and Public Key Infrastructures.

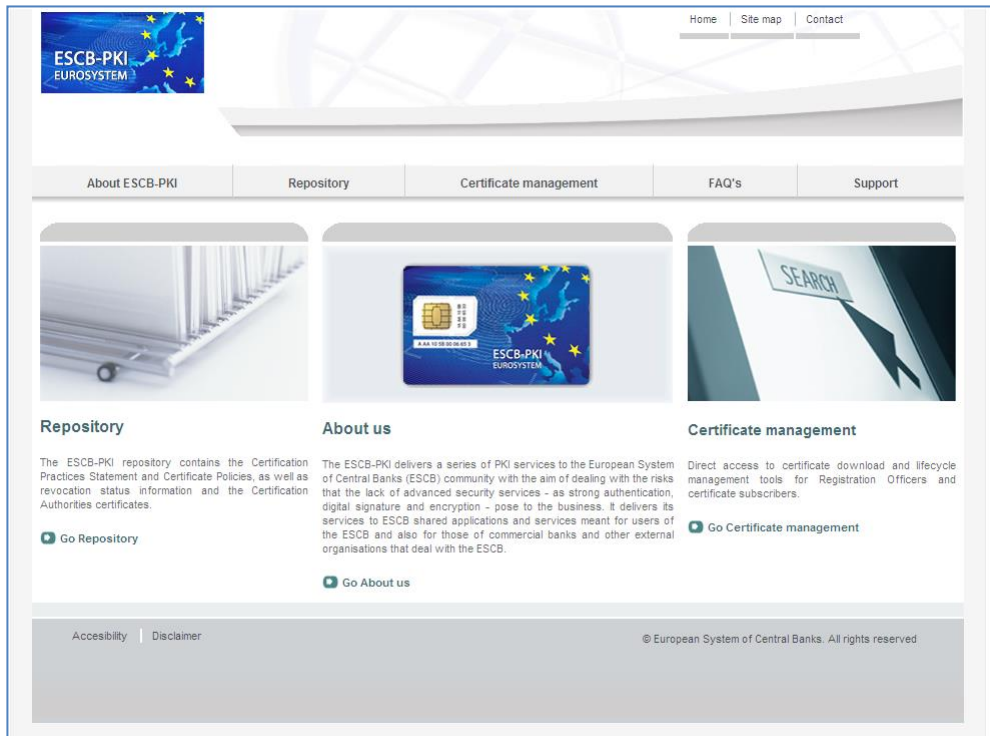


Figure 1 - ESCB-PKI Website

To access to the ESCB-PKI services, open your web browser and type the following URL address, <http://pki.escb.eu/>. You will find the following information:

- **About ESCB-PKI** Generic information with regards to the ESCB-PKI services
- **Repository** ESCB-PKI public information: Certificate Practice Statement (CPS) document, Certificate Policy (CP) documents, Certificate Authority (CA)certificates , Certificate Revocation Lists (CRLs), etc.
- **Certificate management** ESCB-PKI Registration Authority application and guidelines
- **FAQ** Frequently Asked Questions
- **Support** Software needed to manage ESCB-PKI tokens and utilities to test ESCB-PKI certificates

2. THE ESCB-PKI REGISTRATION AUTHORITY APPLICATION

2.1. SYSTEM REQUIREMENTS

The following software is required to use the ESCB Registration Authority application:

- ESCB-PKI Smartcard drivers
- Native application required to manage certificates in a smart card.
- One of the following web extensions of your choice, according to your browser preferences:
 - Mozilla Firefox ESCB-PKI Certificate Enrollment extension.
 - Chrome and Edge ESCB-PKI Certificate Enrollment extension.

Instructions on the installation of the aforementioned software are available in the ESCB-PKI User guide - Browser configuration, which may be downloaded from the ESCB-PKI portal support area:

<https://pki.escb.eu/epkweb/en/support.html>

The following browsers have been thoroughly tested and are therefore recommended:

- Internet Explorer 11
- Google Chrome 94
- Mozilla Firefox 92
- Microsoft Edge 95

Note. - “JavaScript” and “Cookies” must be enabled in the web browser for the application to work properly.

2.2. LAYOUT

Please be aware that two different ESCB-PKI environments are reachable by ESCB-PKI customers: acceptance and production. Each environment has a different frame colour so the customer can easily tell the difference and use the one that better suits their intended usage; furthermore, the acceptance environment includes an acceptance label in the upper right position indicating that the acceptance environment is the one being accessed.

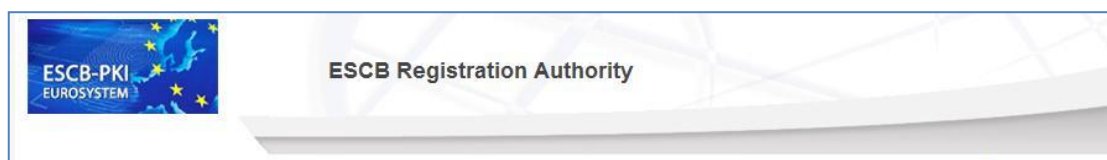


Figure 2 - Production frame



Figure 3 - Acceptance frame

After logging into RA application the following features will always be available to the user:

- A menu will be shown on the left frame to facilitate quick access to all available options
- A **Logout** option in the upper-right corner to end the user session

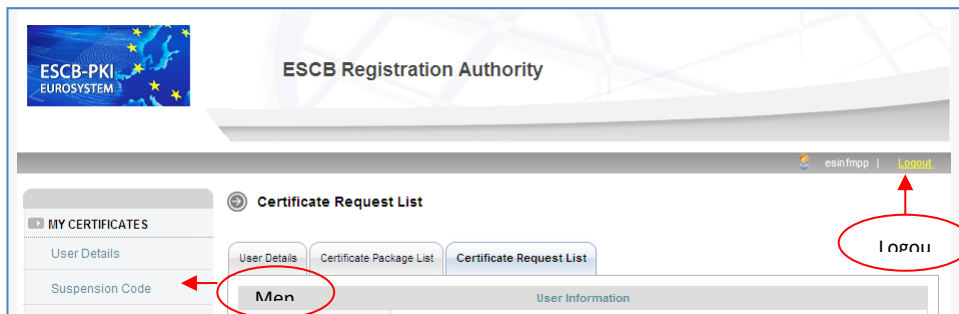


Figure 4 - Certificate management

2.3. ACCESS

In the ESCB-PKI Website click on the **Certificate management** tab. This page contains the list of the ESCB-PKI services available to certificate subscribers

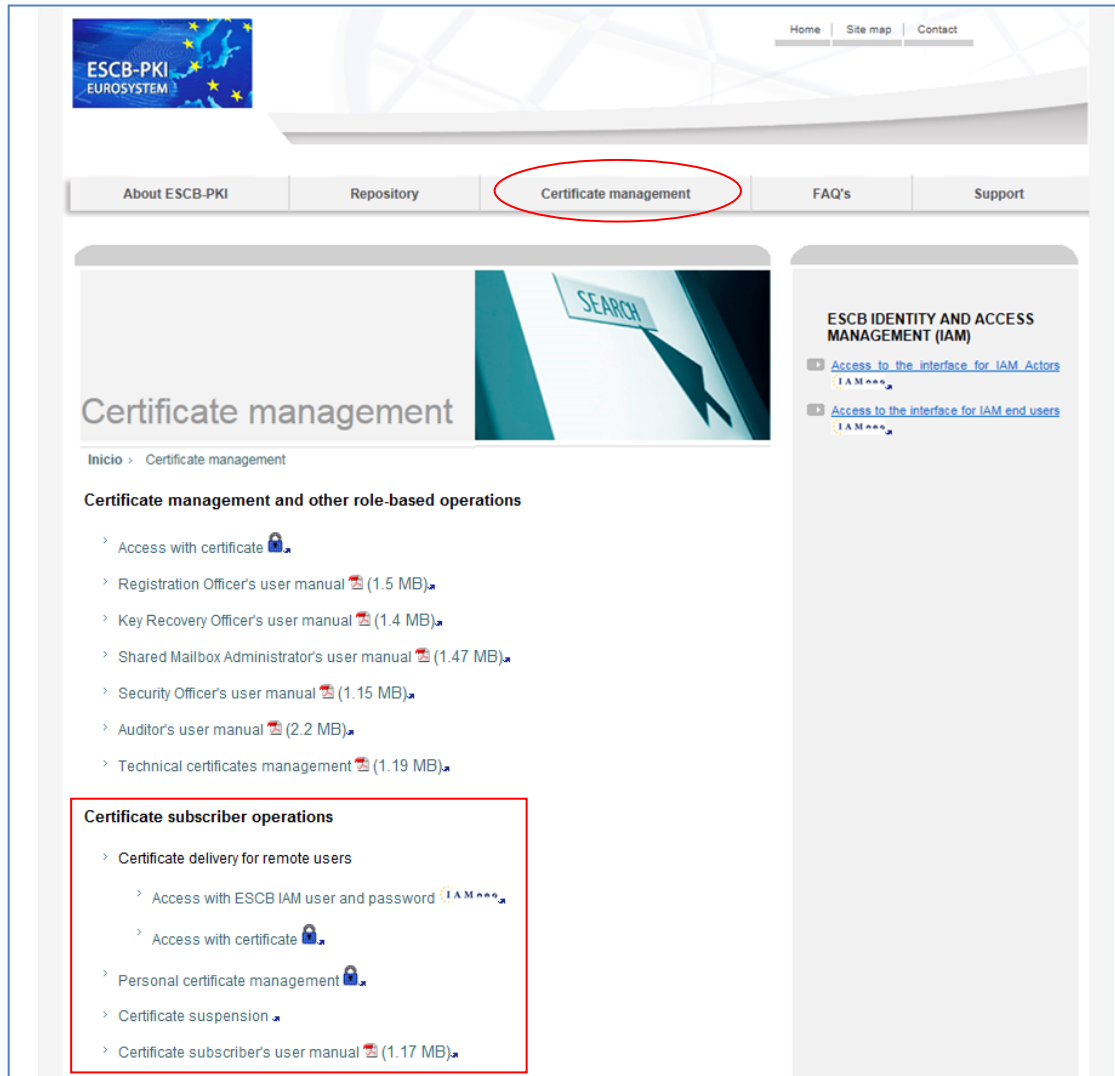


Figure 5 - ESCB-PKI Website - Registration Authority Application

There are three different links available to ESCB-PKI subscribers:

Link	Use this option when you ...	Credentials required
Certificate delivery for remote users	.. do not have any CAF-compliant certificate to authenticate, for example, the first time you request a certificate or when your personal secure token is lost or stolen	IAM user-id and password OR ESCB accepted certificate (CAF compliant)
Personal certificate management	.. have an advanced CAF-compliant certificate (i.e. your token based ESCB-PKI certificate) to authenticate	ESCB accepted advanced certificate (CAF compliant)
Certificate suspension	... want to suspend your certificates and you do not have any CAF-compliant certificate to authenticate (i.e. token lost or stolen) and you do not remember your IAM password	IAM user-id and your personal ESCB-PKI suspension code

Next chapters of this document provide step by step instructions and background information on how to use the Registration Authority application.

2.3.1. CERTIFICATE DELIVERY FOR REMOTE USERS

You will use this link to manage your certificates and certificate requests when you do not have any CAF-compliant certificate to authenticate. This link will initially display all certificate requests currently associated with you and their status:

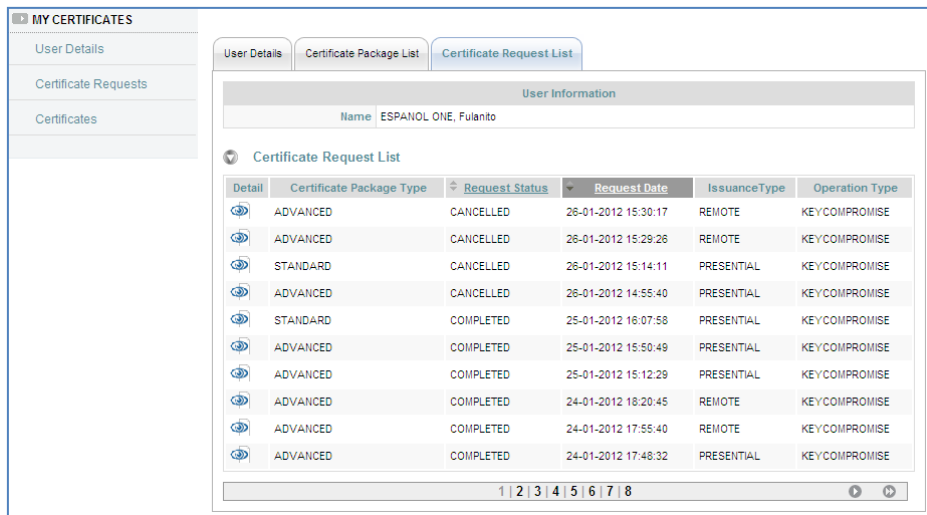


Figure 6 - Certificate request list

The following options will be available from the left frame menu (or from the tabs):

- **User Details** Selecting this option you will be able to check your personal information and manage your personal certificates and certificate requests

- **Certificate requests** Selecting this option you will be able to check your certificate requests and perform the following operations
 - Cancel the request
 - Obtain a copy of the Terms and Conditions form associated to your certificate requests
 - Download your certificates provided an RO has authorised you the remote download

- **Certificates** Selecting this option you will be able to check your certificates and perform the following operations
 - Suspend your certificates in case you suspect they have been compromised

Next chapters will further elaborate on these three options.

2.3.2. PERSONAL CERTIFICATE MANAGEMENT

You will use this link to manage your certificates and certificate requests when you have a CAF-compliant certificate to authenticate. This link will initially display your personal data:

The screenshot shows a web interface for managing certificates. On the left is a sidebar menu with options: 'MY CERTIFICATES', 'User Details', 'Suspension Code', 'Certificate Requests', and 'Certificates'. The main area has three tabs: 'User Details' (selected), 'Certificate Package List', and 'Certificate Request List'. The 'User Details' tab displays two sections of data:

Personal Data	
Escb User ID	t-esinfpr2
First Name	Fulanito Dos
Middle name	
Surname	ESPAÑOL DOS
National Identity Number	
Birth Date	20/01/1965
Birth Place	Peteñños de abaixo Orense

ESCB Data	
Escb User ID	t-esinfpr2
Email Address	micorreoelectron@bde.es
Employee Number	INFPPR2
Domestic UID	
Suffix	
Organisation	Banco de España(ES)

Figure 7 - Personal certificates management

Four options will be available from the left frame menu (or from the tabs):

- **User Details** Selecting this option you will be able to check your personal information and manage your personal certificates and certificate requests

- **Certificate requests** Selecting this option you will be able to check your certificate requests and perform the following operations
 - Cancel the request
 - Obtain a copy of the Terms and Conditions form associated to your certificate requests
 - Download your certificates provided an RO has authorised you the remote download

- **Certificates** Selecting this option you will be able to check your certificates and perform the following operations

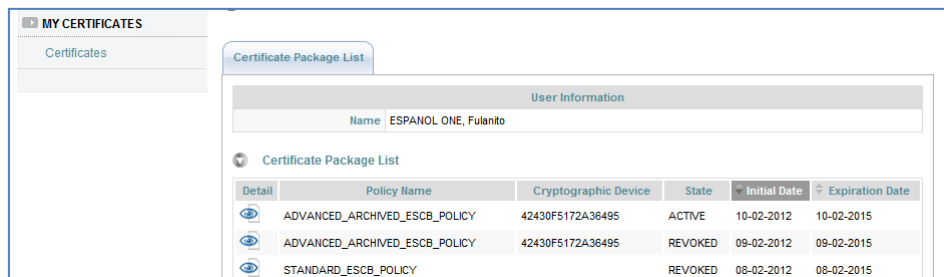
ECB - Public

- Suspend your certificates in case you suspect they have been compromised
 - Recover your old encryption keys
- **Suspension code** This option will allow you to set your personal suspension code

Next chapters will further elaborate on these four options.

2.3.3. CERTIFICATE SUSPENSION

You will use this link to suspend your ESCB-PKI certificates when you do not have any CAF-compliant certificate to authenticate (i.e. token lost or stolen) and you do not remember your IAM password. This link will display ESCB-PKI certificates currently associated with your user-id and their status:



MY CERTIFICATES					
Certificates					
Certificate Package List					
User Information					
Name: ESPANOL ONE, Fulanto					
Certificate Package List					
Detail	Policy Name	Cryptographic Device	State	Initial Date	Expiration Date
	ADVANCED_ARCHIVED_ESCB_POLICY	42430F5172A36495	ACTIVE	10-02-2012	10-02-2015
	ADVANCED_ARCHIVED_ESCB_POLICY	42430F5172A36495	REVOKED	09-02-2012	09-02-2015
	STANDARD_ESCB_POLICY		REVOKED	08-02-2012	08-02-2015

Figure 8 - Certificate List

One option will be available from the left frame menu

- **Certificates** Check your certificates and perform the following operations
- Suspend your certificates in case you suspect they have been compromised

Next chapters will further elaborate on this option.

3. USER DETAILS

Displays the user attributes (first name, surname, user-id, etc.) and the information of the organisation you belong to.

The screenshot shows a web interface titled "UserDetails". It has three tabs: "User Details" (highlighted with a red circle), "Certificate Package List", and "Certificate Request List". The main content is divided into two sections: "Personal Data" and "ESCB Data".

Personal Data	
Escb User ID	uid200
First Name	name
Middle name	middlename
Surname	surname
National Identity Number	
Birth Date	
Birth Place	

ESCB Data	
Escb User ID	uid200
Email Address	qtamomx@correo.interno
Employee Number	
Local Upn	
Organisation	Banco de España (ES)

Figure 9 - User details

NOTE: User attributes not completed

Before issuing any certificate the RA application must ensure that all the personal information required to uniquely identify you is registered in the system.

In particular the place and date of birth and/or the number of your identification document (i.e. national identity number, passport number, driver license number, etc.) could be missing, as this information is not registered in the IAM directory and therefore not imported by ESCB-PKI system.

In this event, the application will prompt you to introduce either your national identity number or your place and date of birth.

The screenshot shows a web interface titled "User birth information register". At the top, there is a yellow warning box with a red triangle icon. The text inside the box reads: "The following fields are missing: - National identification number - Birth place and birth date". Below this, it says: "At least one of these fields is required to identify a user before issuing ESCB-PKI certificates. Please, complete the information to continue."

The form is divided into two sections: "User information" and "Pending information".

User information

lName F name, Surname

Pending information

National Identity Number

National Identity Number

Birth Date and Birth Place

Birth Date

Birth Place

Register

Figure 10 - Register personal information

4. CERTIFICATE REQUESTS

This option displays all certificate requests currently associated with you

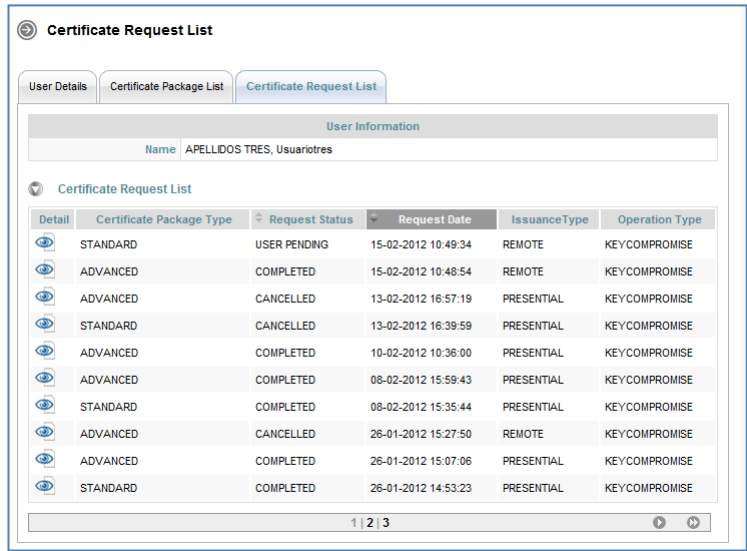


Figure 11 - Certificate request list

and their status:

- **Completed** The request has been processed and certificates have been generated
- **Cancelled** The request has been cancelled
- **Expired** The request has expired
- **RO-Pending** The RO shall still process the request
- **User-Pending** The user can generate and download the certificates. The RO has already handled the request and has allowed a remote download

Clicking the button the details of the certificate request are displayed

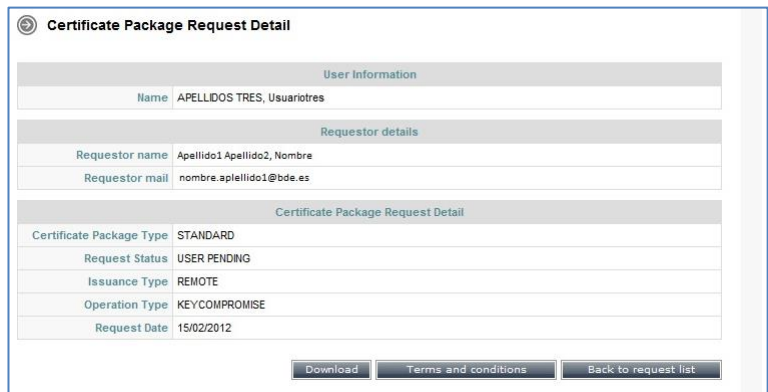


Figure 12 - Certificate request details

You may choose from the following operations:

- **Terms and Conditions download** If the request is still pending the **Terms and Conditions** button will be available in order to obtain a copy of the Terms and Conditions document

- **Certificate generation/download** If the status of the request is **User-Pending** a **Download** button will be available to generate and download the certificates
- **Modify device** To update the serial number of the device if necessary (this button will be only available for advanced certificate requests when the status of the request is Ro-pending)
- **Cancel request** If the status of the request is **RO-Pending** the **Cancel request** button will be available to cancel this request

4.1. DOWNLOAD TERMS AND CONDITIONS

You must formally accept your responsibilities by signing the Terms and Conditions document. This option will permit you to download a copy of the Terms and Conditions document. The next figure shows a sample of the form.

ECB-RESTRICTED PERSONAL	
Certification services provided by ESCB-PKI's Certification Authority Application form for ESCB users	
Certificate Applicant's Data¹	
Personal Data	
First name ²	Juan
Middle name (if any) ²	
Surname ²	ESPAÑOL ESPAÑOL
[National identity number ³]	
[Birth date ⁴]	
[Birth place ⁵]	
Central Bank Related Data	
Central Bank ²	BANCO DE ESPAÑA
ESCB User ID ²	ESUUUUUU
E-mail address ²	Juan.Español@bde.es
Employee number ¹	99 999
Technical Data	
Certificate level	ADVANCED
Token serial number	9999999999999999
<p>By signing this document and upon receipt of the ESCB-PKI certificate, You (hereinafter "You" or "Certificate Applicant") agree to the following terms and conditions, and acknowledge the Certification Practice Statement ("CPS") and the Certificate Policies ("CP") for the ESCB users' certificates, as well as any modifications of those documents. The ESCB-PKI will not contact You to communicate any change to these documents, but they are available at http://info.bde.es/cps</p> <p>In ON</p> <p style="text-align: right; font-size: small;">The validation of the identity has been carried out based on the employee identification card or an official identification document according to the legislation applicable to the Central Bank acting as Registration Authority</p>	
<p>Name and signature of the Certificate Applicant</p>	<p>Name and signature of the person who validates the Certificate Applicant's identity</p>
<p><small>¹ In line with Section 9.4.1 of the CPS, each CP shall establish the personal data to be included in the personal certificates. Acceptance by the applicant of the certificate issued in their name constitutes their consent to publish the certificate in the repositories described in section 2.1 of the CPS and CP. Access to the repositories is granted on a need-to-know basis.</small></p> <p><small>² Either the number of a national recognized identity document, according to the legislation applicable to the Central Bank acting as Registration Authority, or the date and place of birth, or, in the alternative, if the certificate applicant has already been identified by the Central Bank acting as Registration Authority through a face-to-face identification process and a proof of identity, the number of the employee identification card or the employee number if this is printed on the employee identification card</small></p>	
<p>Terms and Conditions:</p> <p>These Terms and Conditions constitute the terms and conditions between You and your Central Bank, in representation of the Eurosystem central banks and the European Central Bank (in the owners of the ESCB-PKI), for the provision of the ESCB-PKI Services as described in the CPS and the corresponding CP. The terms used in these ESCB-PKI Terms and Conditions will have the meaning given to them in the CPS and the CP unless stated otherwise. These Terms and Conditions shall, therefore, be binding upon both You (the Certificate Applicant) and the Eurosystem Central Banks (in the owner of the ESCB-PKI).</p> <p>1. Obligations:</p> <p>The Certificate Applicant You shall:</p> <ol style="list-style-type: none"> 1.1 Provide accurate, full and truthful information when filling the application form. 1.2 Inform its Central Bank (hereinafter "CB") of any modifications of Personal Data collected in this form. 1.3 Limit the certificate's use to the boundaries set out in his/her contractual relationship with the CB. 1.4 Take the necessary security measures within its control in order to avoid any loss, modification or unauthorized use of the cryptographic card. 1.5 Be responsible for the secure custody of the PIN¹ and PUK² secret numbers for activation and unlocking the cryptographic card. 1.6 Request the revocation of the certificate in case the data specified in the certificate changes, or when You have knowledge that the private key might be under risk due to, among other causes, loss, theft, or knowledge by third parties of the PIN¹ and/or PUK². 1.7 Not monitor, manipulate or carry out any reverse engineering (i.e. try to discover the technical principles through analysis of its structure, function or operation) on the technical implementation (hardware and software) of the certification services. 1.8 Not transfer or delegate to third parties the obligations pertaining to the certificate assigned to them (e.g. not transfer the cryptographic card or the PIN and PUK). 1.9 Fulfill any other user obligations applicable to You under the CPS or the CP (relevant sections of both documents are 1.3.6, 4.1.2, 4.4 and 9.6.3). <p>2. Personal Data Protection</p> <p>Personal data provided in this application form are deemed to be personal data pursuant to Directive 95/46/EC of the European Parliament and of the Council of 14 October 1994 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (hereinafter "Data Protection Directive") and Regulation 45/2001 of the European Parliament and of the Council of 18 December 2000 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and of free movement of such data (hereinafter "Data Protection Regulation").</p> <p>The Eurosystem Central Banks (in the owner of the ESCB-PKI) and Banco de España (in the Service Provider) are co-controller for ESCB-PKI data protection purposes and shall comply with and apply the legal, technical and management measures required by the respective national legislation transposing the Data Protection Directive. The ECB processes personal data in accordance with the Data Protection Regulation.</p> <p>The Certificate Applicant is informed and agrees that the personal data provided in this application form will be recorded, processed and the certificate data published, by the CB and Banco de España, for the sole purpose of providing the ESCB-PKI services described in the Decision ECB (2001) on the public key infrastructure of the ESCB, including the generation of the certificates and key pair. The CB will retain a copy of this application form. Certificate Applicant may exercise his/her right of access, rectification and deletion of his/her personal data by contacting the Service Provider at the following address or through the CB's Registration Office below:</p> <p style="text-align: center;">SERVICE PROVIDER</p> <p>Name: Banco de España Information Systems Department - Departamento de Sistemas de Información ESCB-PKI E-mail address: escb@bde.es Address: C/Alcala, 42 - 28017 - Madrid (Spain)</p> <p style="text-align: center;">CENTRAL BANK ACTING AS REGISTRATION AUTHORITY</p> <p>Name: _____ E-mail address: _____ Address: _____</p> <p>3. Limitation of liability</p> <p>The Eurosystem Central Banks and the European Central Bank do not accept any liability whatsoever for the content of documents signed using its certificates, nor for any other use of its certificates, such as message or communication envelopment processes.</p>	

Figure 13 - Terms and Conditions acceptance form

4.2. GENERATE AND DOWNLOAD SOFTWARE-BASED CERTIFICATES

This option will only be available if the status of the request is **User-Pending**. The next figure shows the information displayed when you select the download button for standard certificates.

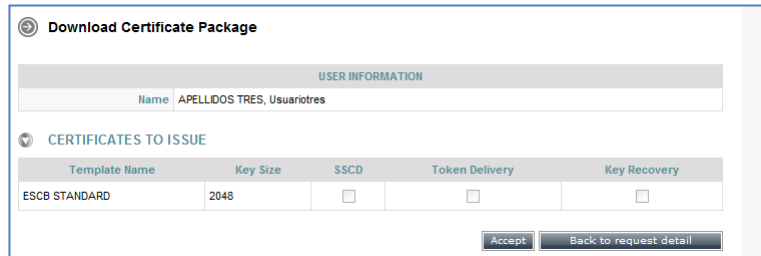


Figure 14 - Software-based certificate download

1. To initiate the process you must click the **Accept** button.
2. You will be requested to set a PIN code to protect the certificate and the keys generated.

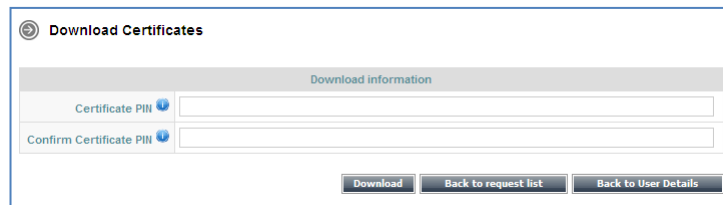


Figure 15 - File protection PIN

Type your selected PIN:

- PIN length must be between 15 and 25 characters
- PIN is a combination of capital and non-capital letters, numbers and special characters (special characters are: @ % + / ! # \$ ^ ? . () { } [] ~ ` - _)

3. Click the **Download** button. The certificate will be generated.

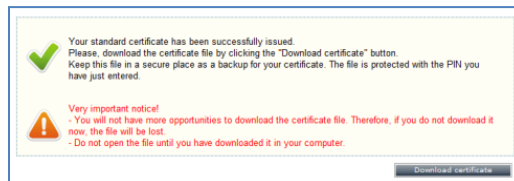


Figure 16 - Software-based certificate generated

4. Click the **Download certificate** button to store the certificate.
5. A File Download dialog box will pop up. Click the **SAVE** button to download the keys.

Important notice!



If you select the **OPEN** option (instead of **SAVE**) Windows will automatically start the installation of the certificate in your PC.

The recommended procedure is to save this file, keep it as a backup copy and, afterwards, start the installation process (opening the file). Detailed information for the installation process is available at "User guide: importing and exporting standard certificates" document which is available in the ESCB-PKI Website.

The certificate will be saved, protected by the PIN, to ensure that only you and no one else can have access to the private key.

6. Keep this file as a backup copy of the certificate. This will permit you to recover the certificate in the future, in case it gets damaged.

4.3. GENERATE AND DOWNLOAD TOKEN-BASED CERTIFICATES

This option will only be available if the status is **User-Pending**.

Figure 17 - Token-based certificate request

1. Insert your personal secure token in the reader and click the **Download** button. If the serial number of the token is not the one indicated in the request an error pop-up window will be displayed.

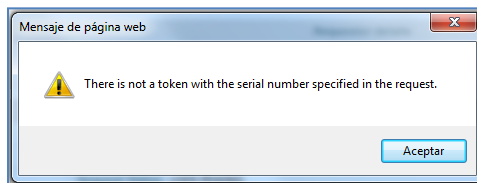


Figure 18 - Invalid token

If the right token has been used the information about the certificates to be issued will be shown.

Template Name	Key Size	SSCD	Token Delivery	Key Recovery
ESCB ARCHIVED ENCIPHERMENT	2048	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ESCB AUTHENTICATION	2048	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ESCB NONSSCD SIGNATURE	2048	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Figure 19 - Token-based certificates download

- In order to initiate the process, click the **Accept** button. The whole process will take a few minutes because, in the case of the advanced certificate package, three key-pairs will be generated (authentication, encryption and signing) and stored in your token.

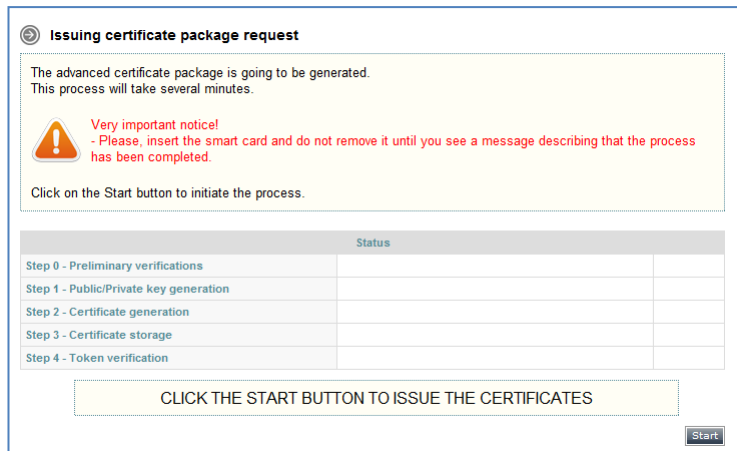


Figure 20 - Token-based certificates generation

- Click the **Start** button.
- The system will prompt you to enter the PIN of the token.

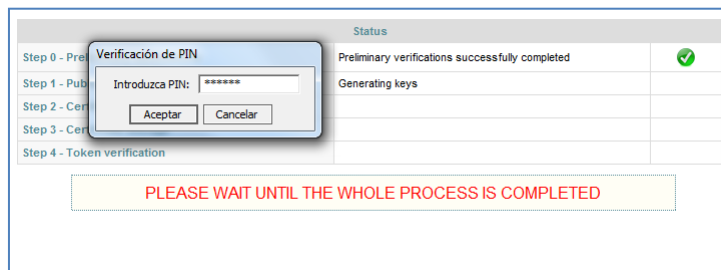


Figure 21 - Introduce PIN code

The key-pair will be generated into the secure token.

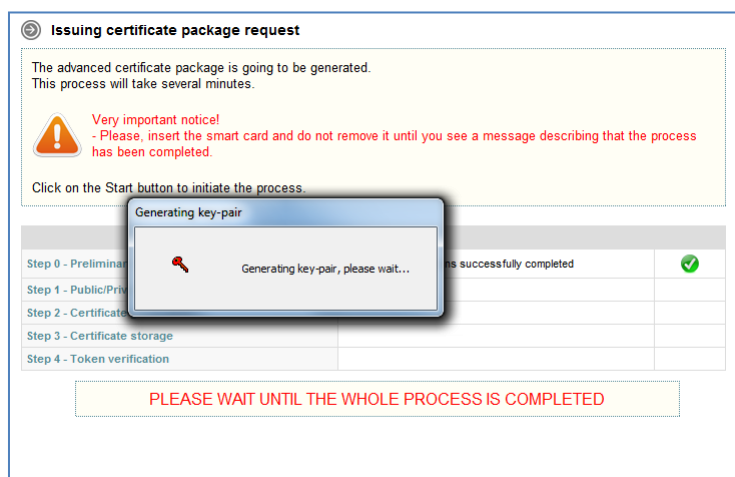


Figure 22 - Public/private keys generation

You will be informed when the keys have already been generated.

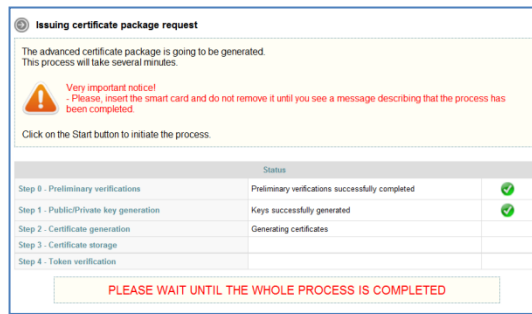


Figure 23 - Token-based certificates successfully generated

The system will generate the certificates and will store them in the token.

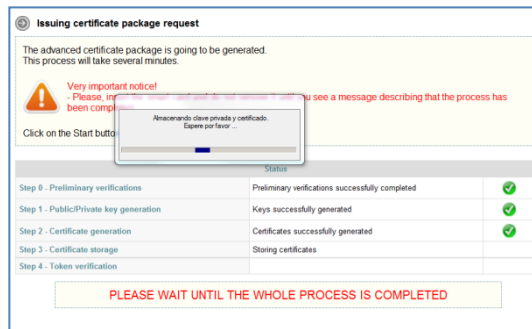


Figure 24 - Storing certificates

The keys and the certificates will then be available in the token.

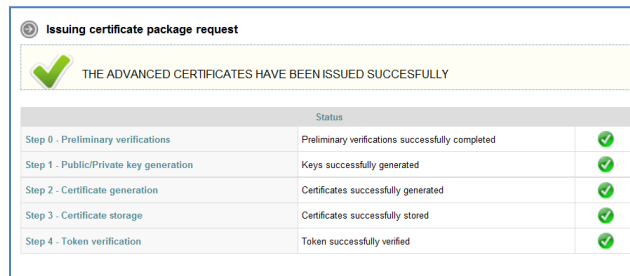


Figure 25 - Token-based certificates successfully stored

5. CERTIFICATES

Displays all ESCB-PKI certificates currently associated with your user-id

User Information					
Name: ESPANOL ONE, Fulanito					
Certificate Package List					
Detail	Policy Name	Cryptographic Device	State	Initial Date	Expiration Date
	ADVANCED_ARCHIVED_ESCB_POLICY	42430F5172A36495	ACTIVE	09-02-2012	09-02-2015
	STANDARD_ESCB_POLICY		ACTIVE	08-02-2012	08-02-2015
	ADVANCED_ARCHIVED_ESCB_POLICY	42430F5172A36495	REVOKED	08-02-2012	08-02-2015
	ADVANCED_ARCHIVED_ESCB_POLICY	42430F5172A36495	REVOKED	07-02-2012	07-02-2015

Figure 26 - Certificate list

and their status:

- **Active** Certificates are valid
- **Revoked** Certificates cannot be used any more
- **Suspended** Certificates have been temporarily invalidated
- **Damaged** Certificates have been replaced due to damage (e.g. broken token)
- **Renewed** Certificates have been replaced due to expiration

Certificates are grouped into “packages”. A certificate package is a collection of certificates defined by a Certificate Policy; for instance, the “*advanced_archived*” certificate package will contain the following certificates: advanced authentication, advanced signature and advanced encryption (with key recovery) certificates.

After clicking a certificate package the certificate details will be displayed:

Certificate Package Detail

Certificate Package Information

Policy	QUALIFIED_ARCHIVED_ESCB_POLICY
Cryptographic Device	021029BB80121A1A
Expiration Date	23/01/2015
Request Date	23/01/2012
Certificate Package Status	ACTIVE

Certificate List

Serial Number	Template Name	Download	Recover Keys
2555eb1e0fb47eab4f1da01800f1d6fb	ESCB AUTHENTICATION		
4cc8034b7632a4a34f1da019b943a6b2	ESCB SSCD SIGNATURE		
4fb26f98e33181074f1da0179d6a80ae	ESCB ARCHIVED ENCIPHERMENT		

Download certificat Recover Ke

Suspend all certificate Suspend Back to certificate list

Figure 27 - Certificate details

And you may request the following operations:

- **Certificate download** Clicking the button a copy of the certificate (**only public information**) will be downloaded to be locally stored in a file (a .cer file containing your certificate). It is important to notice that the private key will not be provided

- **Key recovery** This option will only be activated (blue color) for encryption certificates if the key recovery option has been authorised by your Central Bank

NOTE. - Only available from the **Personal Certificate management** link

- **Certificate suspension** Clicking this button you will suspend all the certificates contained in this package. When the action is processed the certificate validity is suspended temporarily

NOTE. - **Certificate reactivation must be requested by an ESCB-PKI Registration Officer**

6. SUSPENSION CODE

Bear in mind that the suspension code will be the only way to identify you if your personal secure token is lost or stolen and you do not remember your IAM password. You will use this code to request the suspension of your certificates.

From the Suspension Code option you can set your personal suspension code.

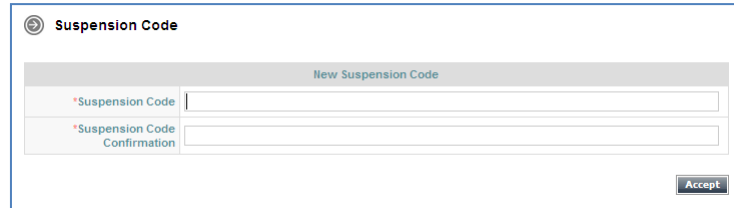
The screenshot shows a web form titled "Suspension Code" with a back arrow icon. Below the title is a section labeled "New Suspension Code" containing two input fields. The first field is labeled "*Suspension Code" and the second is labeled "*Suspension Code Confirmation". Both fields have a red asterisk indicating a required field. At the bottom right of the form is a button labeled "Accept".

Figure 28 - Set the suspension code

- Type your suspension code and then click the **Accept** button.
 - Length must be between 8 and 15 characters.
 - Must be a combination of capital and non-capital letters, numbers and special characters (special characters are: @ % + / ! # \$ ^ ? . () { } [] ~ ` - _)

7. MORE INFORMATION ABOUT ESCB-PKI

For further information see the ESCB-PKI Website, <http://pki.escb.eu> (you may want to bookmark this site for future references). The Frequently Asked Questions (FAQ) section will be your best source of support information.

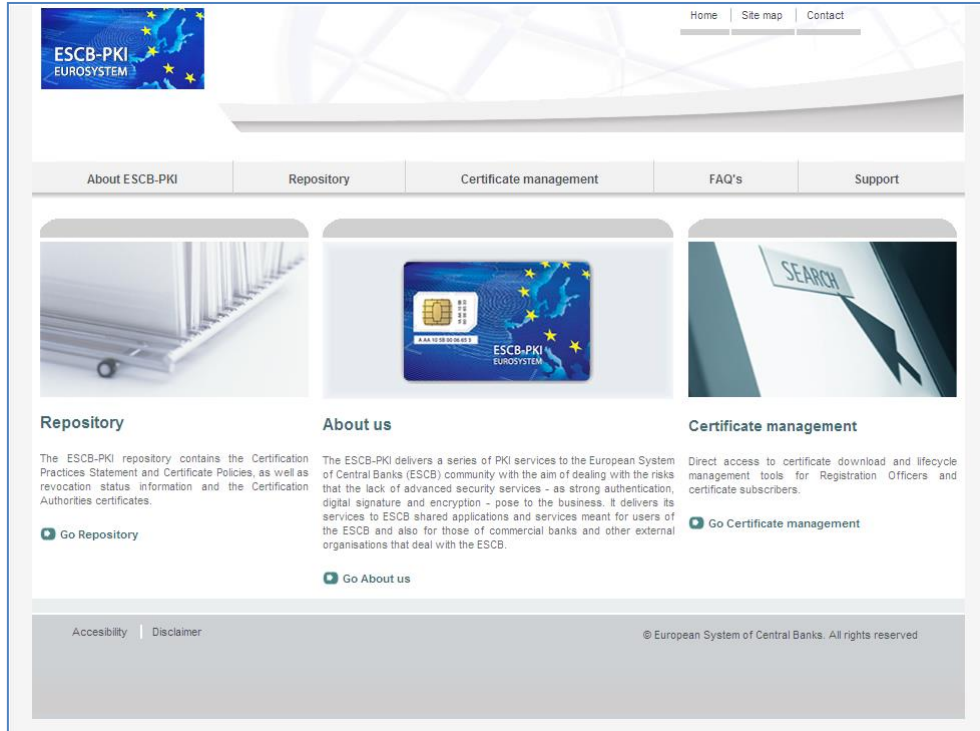


Figure 29 - ESCB-PKI Website

In the ESCB-PKI Website you will find the following information:

- **About ESCB-PKI** Generic information with regards to the ESCB-PKI services.
- **Repository** ESCB-PKI public information: Certificate Practice Statement (CPS) document, Certificate Policy (CP) documents, Certificate Authority certificates, CRLs, etc.
- **Certificate management** ESCB-PKI Registration Authority tool.
- **FAQ** Frequently asked questions.
- **Support** Software needed to manage ESCB-PKI tokens and utilities to test ESCB-PKI certificates.

Note: The last version of this document can be found in the ESCB-PKI Website, along with other ESCB-PKI guides and manuals.

8. ANNEX 1. TABLE OF OPERATIONS

Menu options		RA application links		
		Certificate delivery for remote users	Personal certificate management	Certificate suspension
User Details		✓	✓	
Certificate Request	Term and conditions	✓	✓	
	Certificate generation and download	✓	✓	
	Modify device	✓	✓	
	Cancel request	✓	✓	
Suspension Code			✓	
Certificates	Certificate download	✓	✓	✓
	Certificate suspension	✓	✓	✓
	Key recovery		✓	