

Ministerstvo vnútra SR

Elektronická identifikačná karta

ITMS: 21110120013



Riadiaci orgán OPIS



Tvoríme vedomostnú spoločnosť



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Sprostredkovateľský orgán OPIS

eID client Application

User Guide for OS Windows

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1 Introduction

Currently, the Slovak Republic makes an intensive progress in implementation and provision of public administration services through gradual upload of electronic services on the Internet. The aim of this process is to provide citizens but also private company's effective communication with administration bodies.

During the realization of public administration services through the Internet it is necessary to guarantee effective, safe and trusted identification of the citizen who is using the service. New electronic identification cards (as identification card - eID, residence card with electronic chip - eDoPP or alternative authenticator - AA) were designed just the way that the citizen may authenticate himself/herself during the use of electronic services, meanwhile the whole concept emphasizes protection of personal data saved on the card chip.

For the identity authentication the service provider's server communicates with the eID/eDoPP/AA card chip. The communication between eID/eDoPP/AA card and server is conditioned by user's previous installation of the server's client application authenticator, called the eID client.

eID client application also provides following necessary interaction with the user:

- Approval of service provider's server identification data and its application for identity authentication**
 During the request for electronic identification, after the user's request the application will show service provider's server identification data and his/her request for identity authorization together with description of the purpose of the identity authorization.
- Setting of the user's dataset that would be provided to the server of the service provider**
 After the user's request, the application will show him/her dataset of his/her identity (e.g. name, family name, data of birth), that is requested by the service provider during the process of authentication. Some data may be marked as required and some as optional. The requested data form part of the minimum dataset that is necessary for positive authentication of the identity. The optional set forms part of data that are requested by the service provider, but the process of the authentication of the identity does not fail when this data is not provided. User may change this set before the continuation of the process. If the user is not willing to provide some of the required data he/she has the opportunity to stop the whole process. In this case the process of identity authentication fails.
- Confirmation of previous steps through entering the personal security code (PSC/BOK)**
 Access of the server to eID/eDoPP/AA chip and also the specified dataset prepared for identity authentication is approved by the user through entering the personal security code (PSC/BOK). Otherwise the communication between the server and chip is impossible.
- Visual representation of the process of the identity authorization**

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After the PSC/BOK has been entered the application shows the process of the communication between the server and the eID/eDoPP/AA chip. The communication between the server and chip is cryptographically secured.

Support for creation of qualified electronic signature

Functionality essential for the use of the identification card as a security tool for creation of qualified electronic signature (QES - KEP) is a part of the installation package of the eID client application. Before the use of the identification card as a creator of QES it is necessary to install software (SW) package of eID client.

Software package of eID client consists of extending libraries for Windows that allows applications with Crypto API or PKCS#11 to create electronic signature (ES) and qualified electronic signature (QES). Program for transport and temporary storage of eID card certificates on personal storage space of certificates Windows, known as Certificate propagator is a part of this SW package.

2 Requirements for installation of eID client application

2.1 Hardware

For installation and start of the application you need:

- Personal computer (PC or laptop) with access to the Internet and
- Chip card reader with installed driver, see Appendix No 3 – List of tested card readers.

2.2 Operating system

Supported operating systems:

- Windows XP SP3
- Windows Vista
- Windows (32 bit / 64 bit)
- Windows 8, 8.1 (32 bit / 64 bit)
- Windows 10 Threshold 1 (version 1507), Threshold 2 (version 1511), Redstone 1 (version 1607) (32 bit / 64 bit)

2.3. Supported browsers

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(Oddelenie dokladov Okresného riaditeľstva Policajného zboru). In the case you are foreign citizen you may apply at the Department of Alien Police.

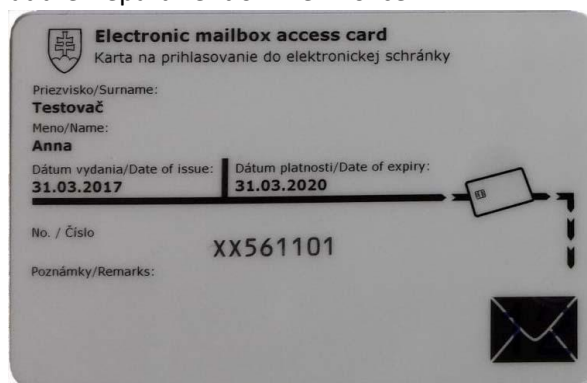


Figure 3: Specimen of alternative authenticator

3 Installation, start and uninstallation of eID client application

3.1 Installation of application

For correct installation of eID client application it is necessary to:

1. Download installation file eID_klient.msi - <https://eidas.minv.sk/TCTokenService/download/> from web page of the Ministry of Interior of the Slovak Republic,
2. Start the installation,
3. Follow the steps written in the installation guide,
4. For finalization of the application press **Dokončiť (Finish)**.

You may find detailed manual of eID client application installation in Appendix No 1 – Installation of eID client application.

3.2 Start of application



It is necessary to connect card reader to the computer and to install PC/SC drivers before the start of eID client application.

Application may be started in three ways:

- a) Doubleclick on **eID client** shortcut on your desktop,
- b) Search **eID client** shortcut in **Start menu -> All Programs -> eID client**,



- c) Application is initiated during the start of operating system (if the automatic start is allowed – see chapter 4.2.1 General settings).

After the correct starts of the application icon  will appear in task bar and for each detected chip card reader icon of the chip  will appear.

Display of the icons in the task bar, in the case of one card reader:





Figure 4: Display of eID client icons in task bar

3.3 Run of Certificate propagator

Note: Certificate propagator is necessary only in the case when you use qualified electronic signature (QES) or electronic signature (ES) saved on eID card.

Application may be started in three ways:

- Application starts automatically from the moment when the user log in to the operating system. (Only if the automatic run is allowed – see chapter “4.2.1 General settings”),
- Application is started by the user by clicking on **Start menu -> All Programs -> eID client -> Certificate propagator.**

After the correct start of the application icon  will appear in the task bar (icon  on the previous figure).

3.4. Uninstallation of application

For correct uninstallation of the application from your computer:

1. Open Start menu -> **Control panel** ->
 - a) Windows 7: **Programs and Features**
 - b) Windows XP: **Add or Remove Programs**,
2. Press **All Programs**,
3. Search the **eID client application**,
4. Press **Uninstall**,
5. Follow the steps written in the uninstallation guide.

4 eID client application

4.1 Identity authorization

eID client application provides the opportunity to use the eID/eDoPP/AA card as a security tool for log in to online electronic services. These services are mostly services of the electronic public administration that are available through the eID/eDoPP/AA card.

4.1.1 1st step: Start of the process of electronic identity authorization

eID client application window will be displayed automatically after you command to log in (on the web portal with electronic service you want to use) with eID/eDoPP/AA card. This will initiate the process of electronic identity authorization. Then the application will call you to put your identification card into the card reader.

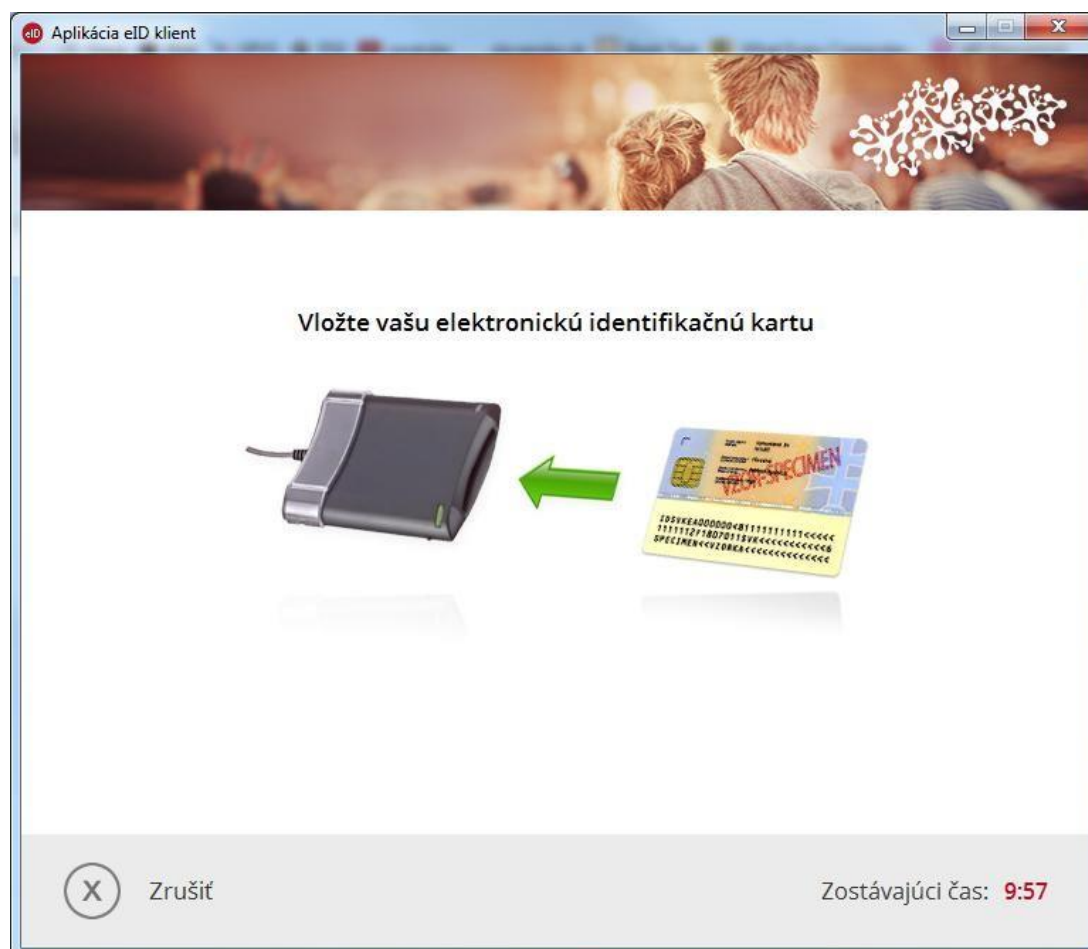


Figure 5: Opening window of the application after the start of the process of identity authorization

4.1.2 2nd step: Entering of personal security code (PSC/BOK) and electronic identity authorization

Before the start of the process of electronic identity authorization the application will ask you to enter your personal security code (PSC/BOK) that enables the communication between the server and your eID/eDoPP/AA card chip. Some of the service providers are qualified to authorize your identity even without your PSC/BOK. In this case this step is omitted and the user continues with the 3rd step: Communication between the card and server.

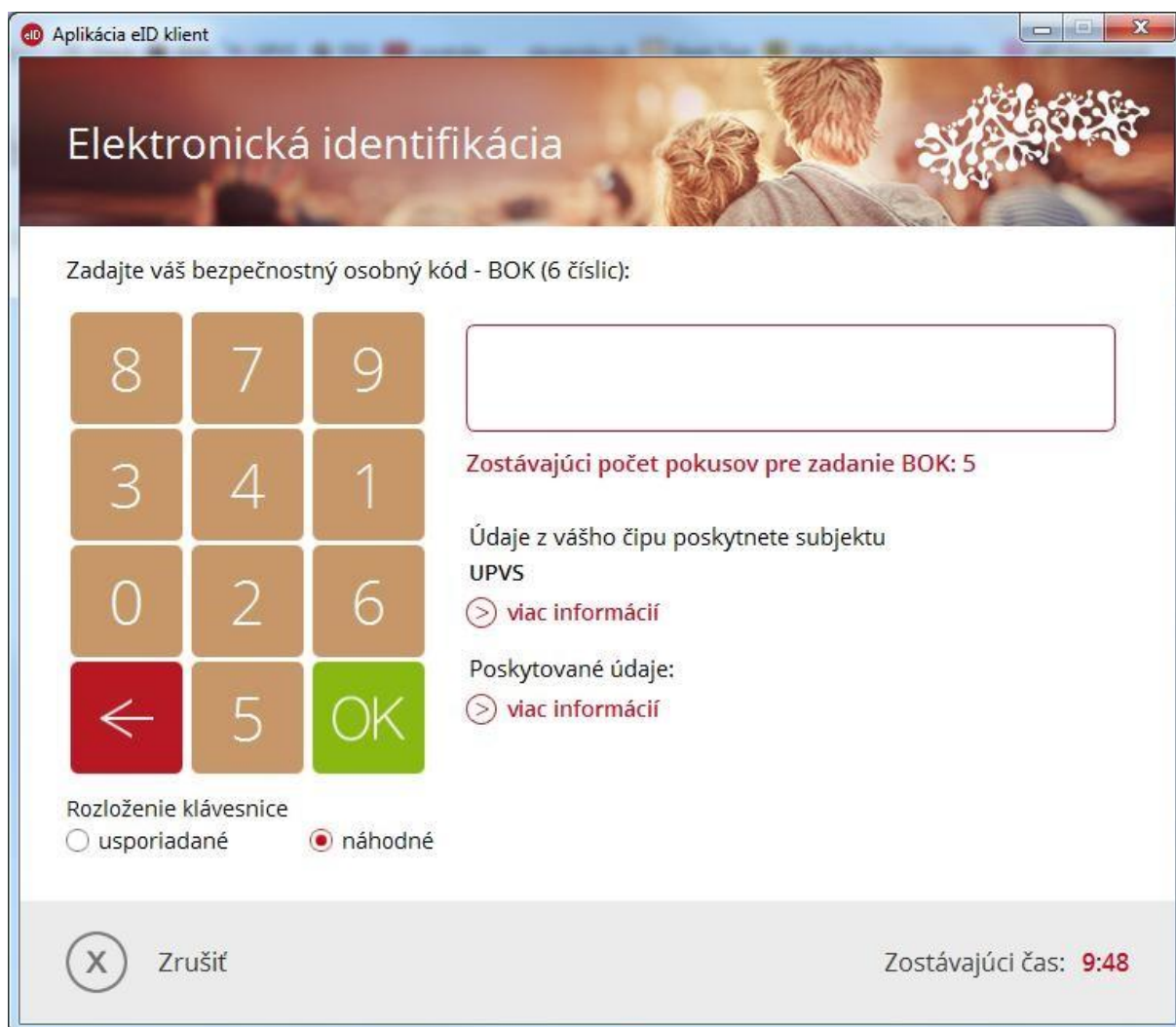


Figure 6: Entering of the PSC/BOK

Entering of the PSC/BOK:

1. On the screen there will appear virtual keypad with displayed number of attempts for correct entering of PSC/BOK. Numeric keypad setting is optional. There are options “usporiadané” (“ordered”) or “náhodné” (“random”).
2. In the case of random setting of the keypad, after the incorrect attempt the setting of numbers will change.
3. After the overrun of attempts for correct entering of PSC/BOK the card will be blocked.
In the case your card has been blocked you may have it unblocked at any office for issue of documents of the District Police Directorate (Oddelenie dokladov Okresného riaditeľstva Policajného zboru).

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4.1.2.1 Information about service provider

During the entering of the PSC/BOK there is also displayed the name of the subject that requires the chip's data. After the clicking on **Viac informácií (More information)** the application will show information about service provider's server that asks you to authorize your identity. This application will also show short description of the purpose for which your identity was authorized.

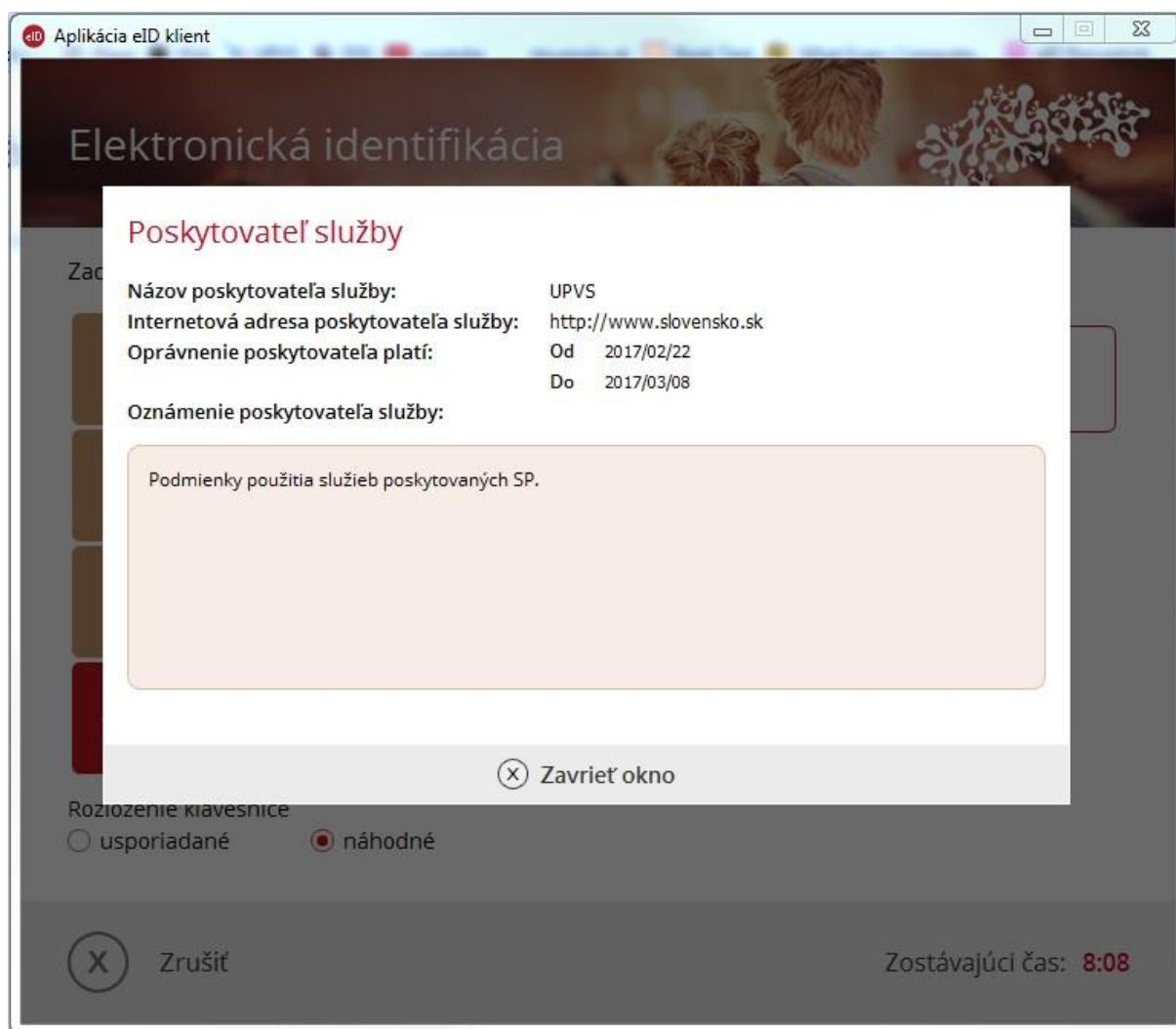
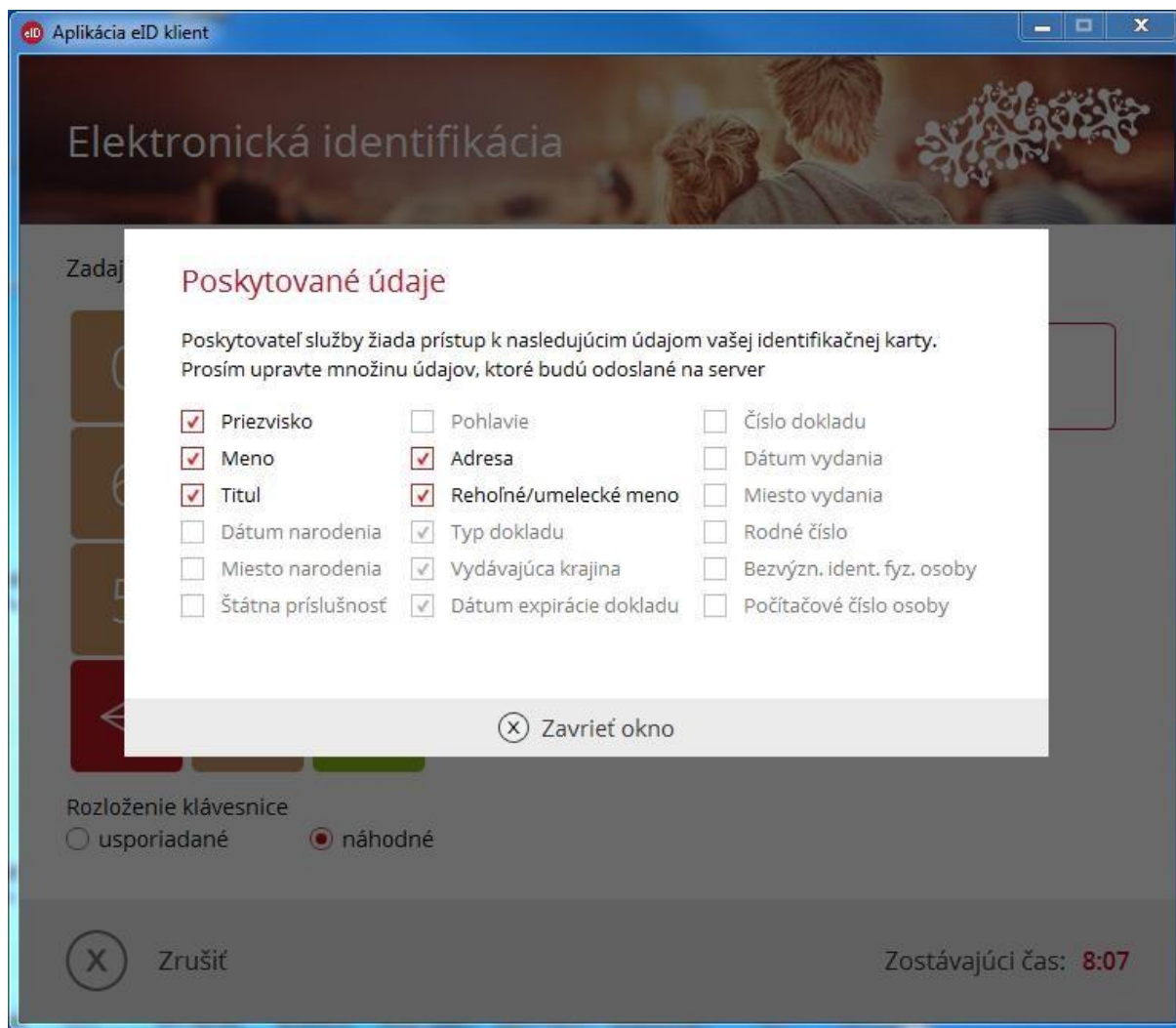


Figure 7: Information about the service provider that requires identity authorization

4.1.2.2 Display and change of data for identity authorization

During the entering of the PSC/BOK the information about the dataset of your personal data (e.g. name, surname, birth date), that is required by the service provider for the identity authorization, is displayed. After pressing **Upraviť (Change)** the list will appear in a separate window.



Poskytované údaje

Poskytovateľ služby žiada prístup k nasledujúcim údajom vašej identifikačnej karty. Prosím upravte množinu údajov, ktoré budú odoslané na server

| | | |
|--|---|---|
| <input checked="" type="checkbox"/> Priezvisko | <input type="checkbox"/> Pohlavie | <input type="checkbox"/> Číslo dokladu |
| <input checked="" type="checkbox"/> Meno | <input checked="" type="checkbox"/> Adresa | <input type="checkbox"/> Dátum vydania |
| <input checked="" type="checkbox"/> Titul | <input checked="" type="checkbox"/> Reholné/umelecké meno | <input type="checkbox"/> Miesto vydania |
| <input type="checkbox"/> Dátum narodenia | <input checked="" type="checkbox"/> Typ dokladu | <input type="checkbox"/> Rodné číslo |
| <input type="checkbox"/> Miesto narodenia | <input checked="" type="checkbox"/> Vydávajúca krajina | <input type="checkbox"/> Bezvýzn. ident. fyz. osoby |
| <input type="checkbox"/> Štátna príslušnosť | <input checked="" type="checkbox"/> Dátum expirácie dokladu | <input type="checkbox"/> Počítačové číslo osoby |

(X) Zavrieť okno

Rozloženie klávesnice
☐ usporiadané ☒ náhodné

(X) Zrušiť

Zostávajúci čas: 8:07

Figure 8: Data required by service provider

Some data may be marked as required and some as optional. Set of required data represents the minimum set of data needed for the successful identity authorization by the provider. Set of optional data represents the data that are requested by the service provider, but the process of the authentication of the identity does not fail when this data is not provided. Before the continuation of the process the user may change this set of data according his/her will. If the user is not willing to provide some of the required data he/she has the opportunity to stop the whole process. In this case the process of identity authentication fails.

4.1.3 3rd step: Communication between card and server

After the process of PSC/BOK authorization there is the process of authorization of the service provider certificate saved on the eID/eDoPP/AA card. The process continues with transfer of the necessary data to the server through cryptographically secured connection.

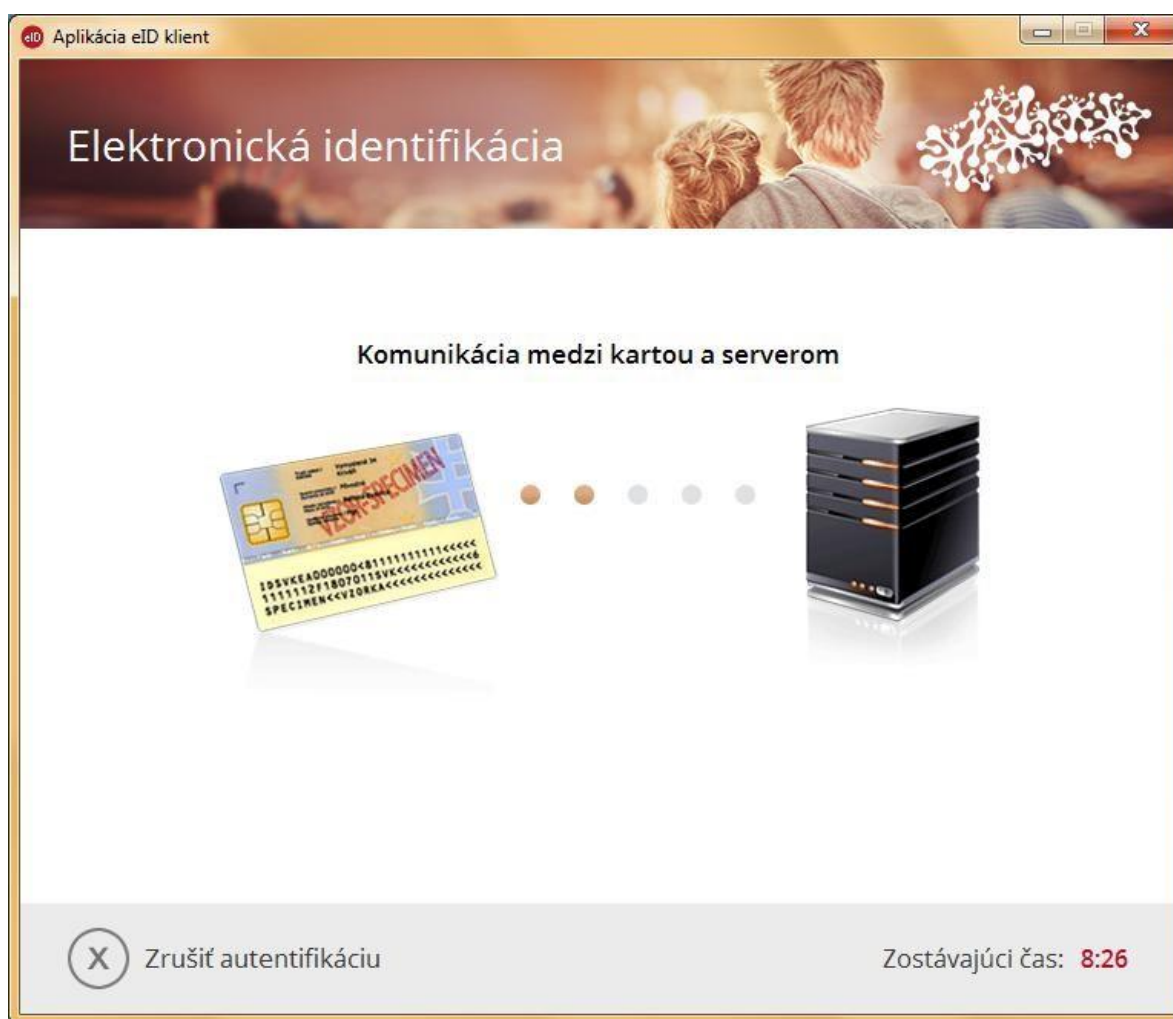


Figure 9: Process of identity authorization


The window with eID client application will close automatically after the successful identity authorization by the service provider. Your browser will be automatically redirected to the electronic service you called.

4.1.4 4th step: Removal of electronic identification card from card reader

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After the successful identity authorization you may remove the electronic identification card from the card reader.

4.2 Configuration of eID client application

For configuration options of eID client application click with the right button of the mouse on icon  in task bar and choose **Nastavenia (Settings)**.

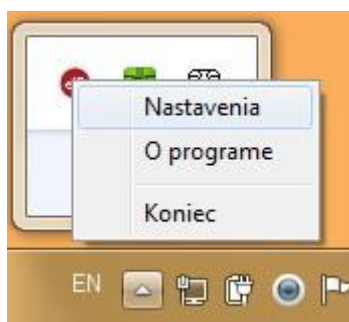


Figure 10: eID client application configuration

4.2.1 General settings

In the panel of general settings you may set following parameter of eID client application:

- Automatic start
If automatic start is allowed, eID client application, or Certificate propagator will start automatically after the start of Windows.
If automatic start of eID client application is not allowed, before the process of identity authorization you have to start the eID client application manually.
If automatic start of certificate propagator application is now allowed, before the use of qualified electronic signature (QES/KEP) you have to start the Certificate propagator application manually.
- Proxy settings
In the case that your computer uses Proxy server for the access to the Internet, in this section you can set its parameters. In the case you do not know necessary configuration, please contact your network administrator. In the case that **Systémové nastavenia (System settings)** are set but during the run of the application they will change you have to restart your eID client application.

This figure shows **Všeobecné nastavenia (General settings)**:

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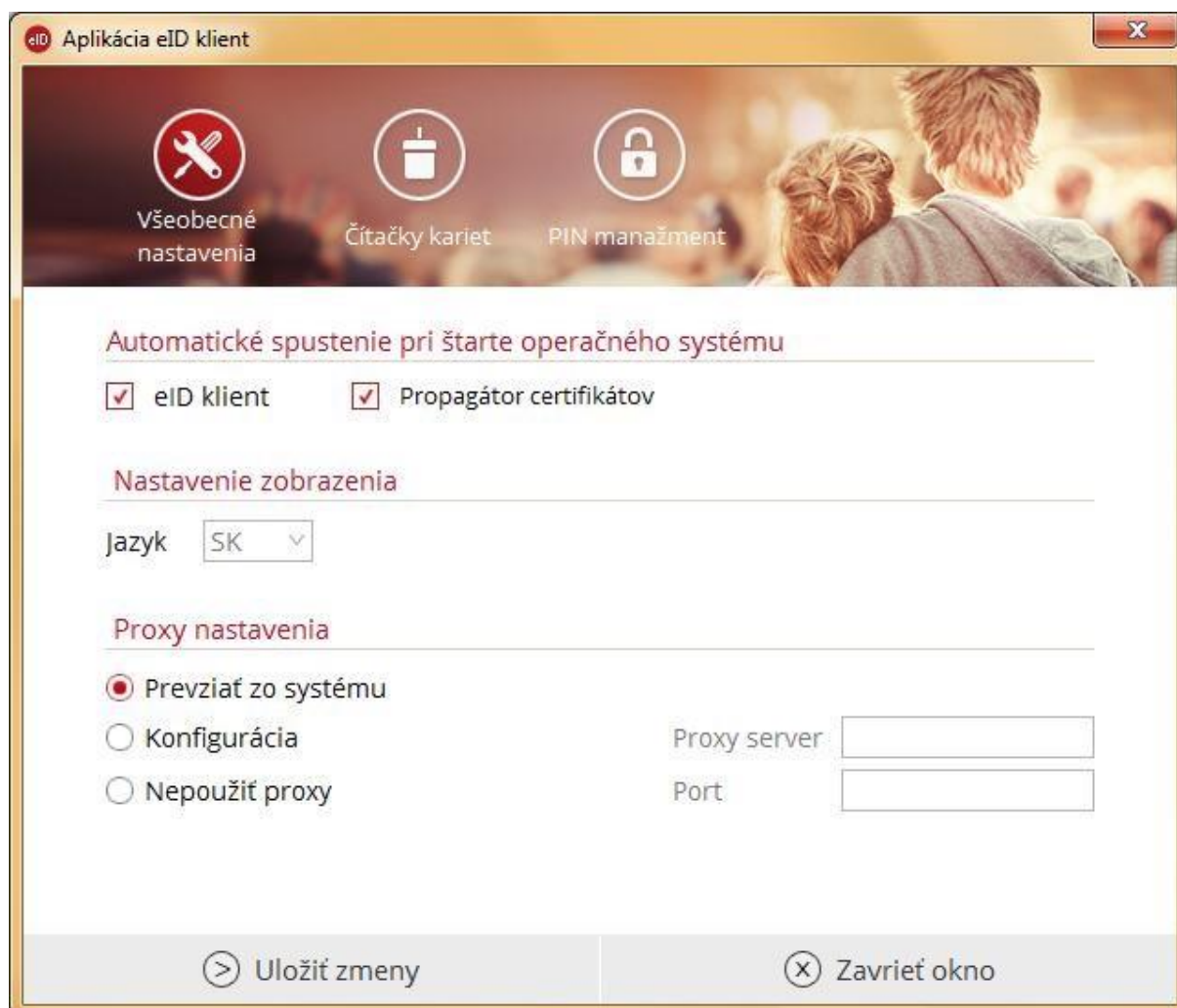


Figure 11: General setting of eID client application

4.2.2 Card readers

Panel with **Čítačky kariet (Card readers)** is only for information purposes. Its role is to provide information about card readers connected to your personal computer. In the case that the card reader is correctly connected, but the card reader panel does not identify it, make sure that all the card reader drivers were correctly installed.

This figure shows **Čítačky kariet (Card readers)**:

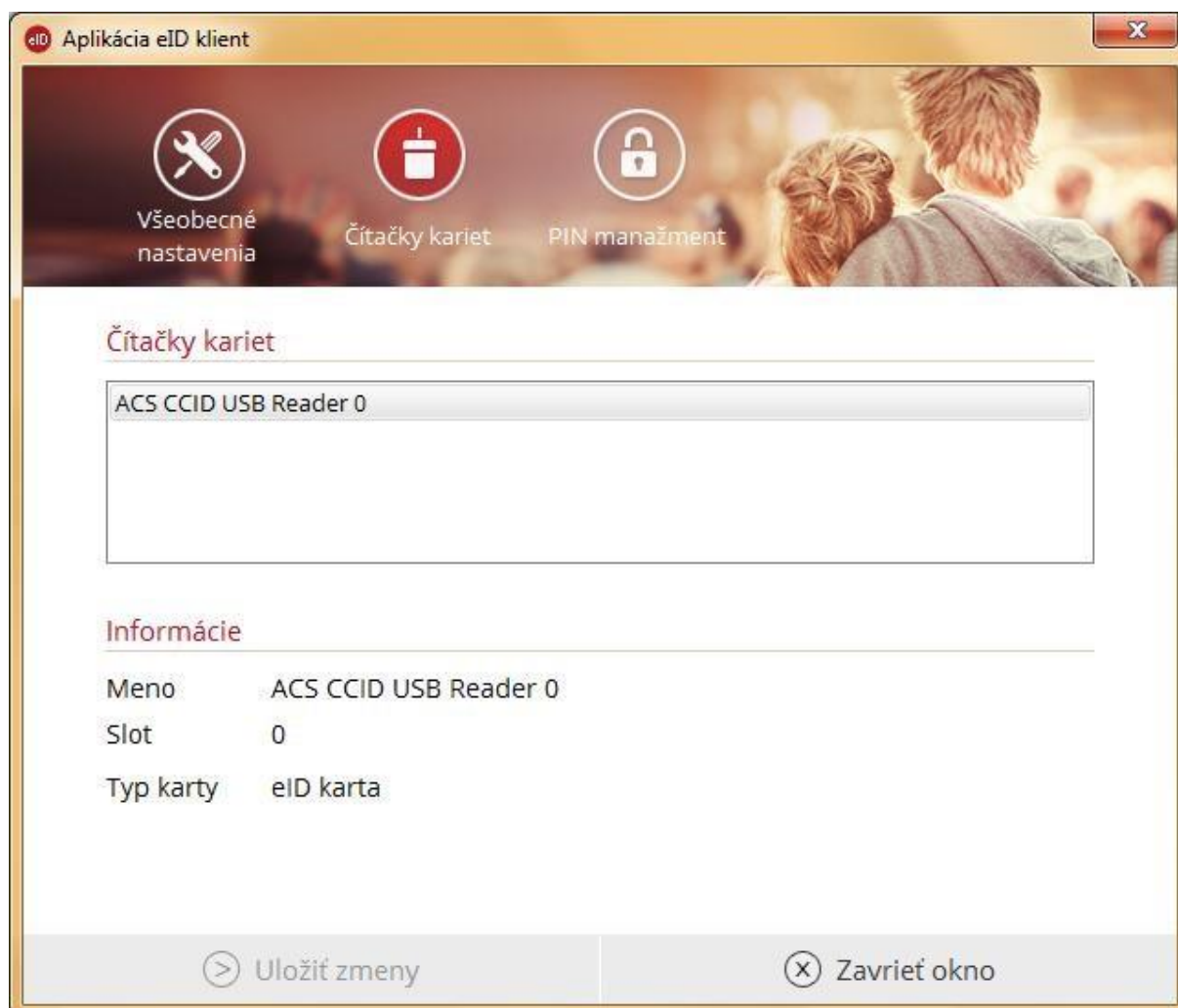


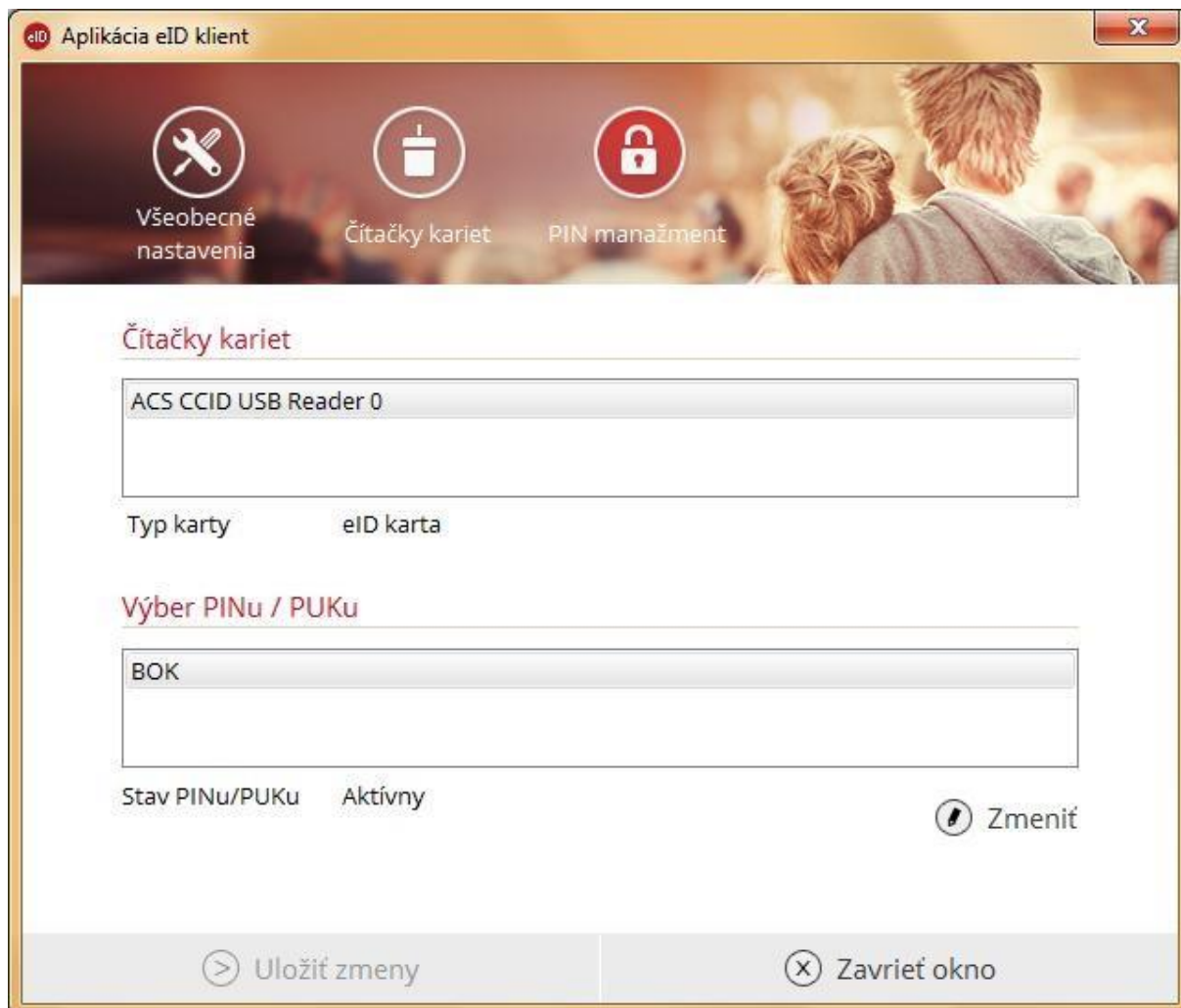
Figure 12: Connected card readers

4.2.3 PIN management

4.2.3.1 Change of personal security code (PSC/BOK)

Panel **PIN manažment (PIN management)** allows you to change your PSC/BOK on the electronic identification card.

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Aplikácia eID klient

Všeobecné nastavenia Čítačky kariet PIN manažment

Čítačky kariet

ACS CCID USB Reader 0

Typ karty eID karta

Výber PINu / PUKu

BOK

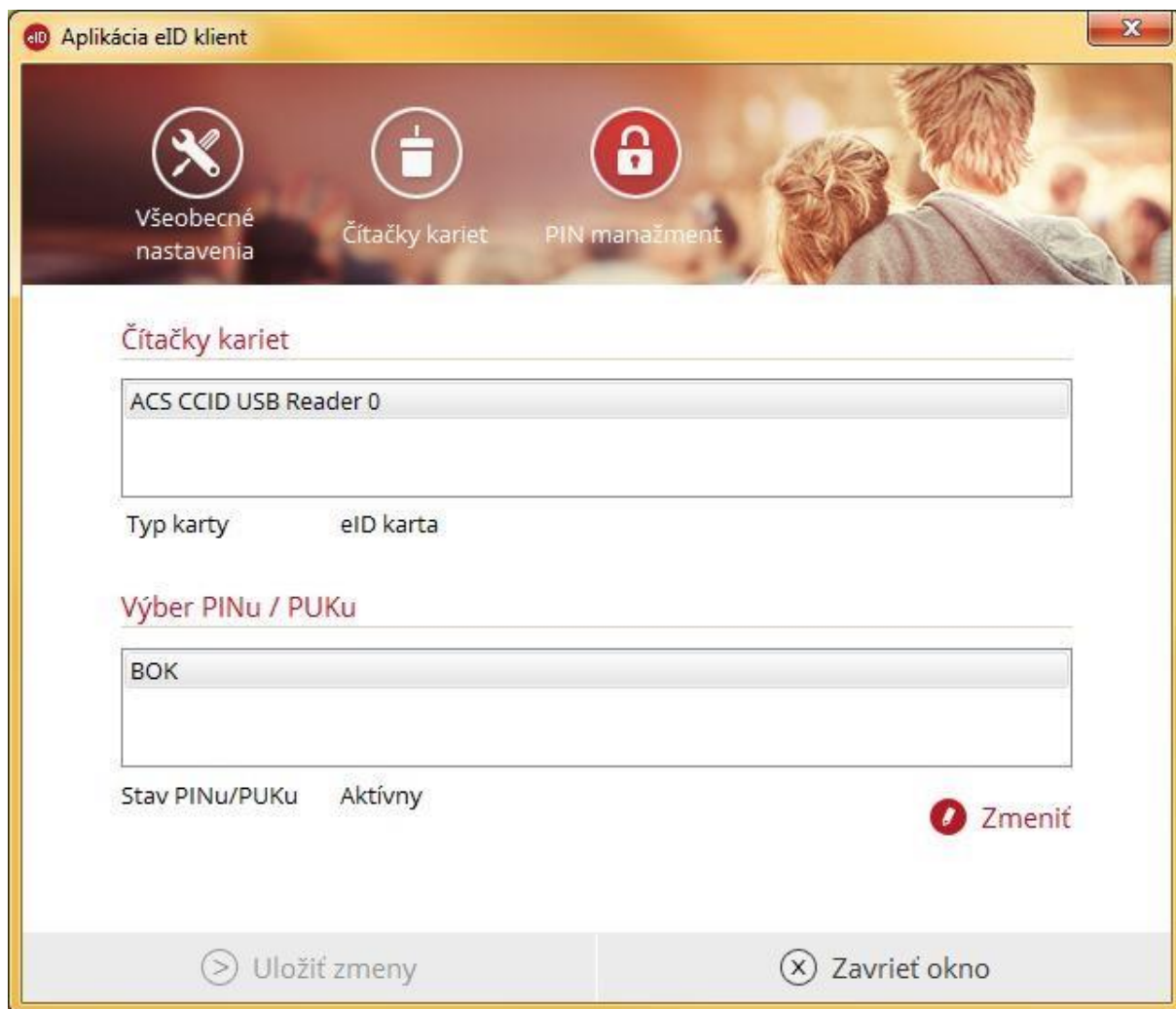
Stav PINu/PUKu Aktívny Zmeniť

Uložiť zmeny Zavrieť okno

Figure 13: PIN management

For PSC/BOK change follow these steps:

1. Put the eID/eDoPP/AA card into the card reader
2. Choose card reader with eID/eDoPP/AA card
3. Choose **Zmeniť (Change)**



Aplikácia eID klient

Všeobecné nastavenia Čítačky kariet PIN manažment

Čítačky kariet

ACS CCID USB Reader 0

Typ karty eID karta

Výber PINu / PUKu

BOK

Stav PINu/PUKu Aktívny

Zmeniť

Uložiť zmeny Zavrieť okno

Figure 14: Change of PSC/BOK

4. Enter your codes on the virtual keypad
 - a) Previous PSC/BOK,
 - b) New PSC/BOK and
 - c) Confirmation of new PSC/BOK.

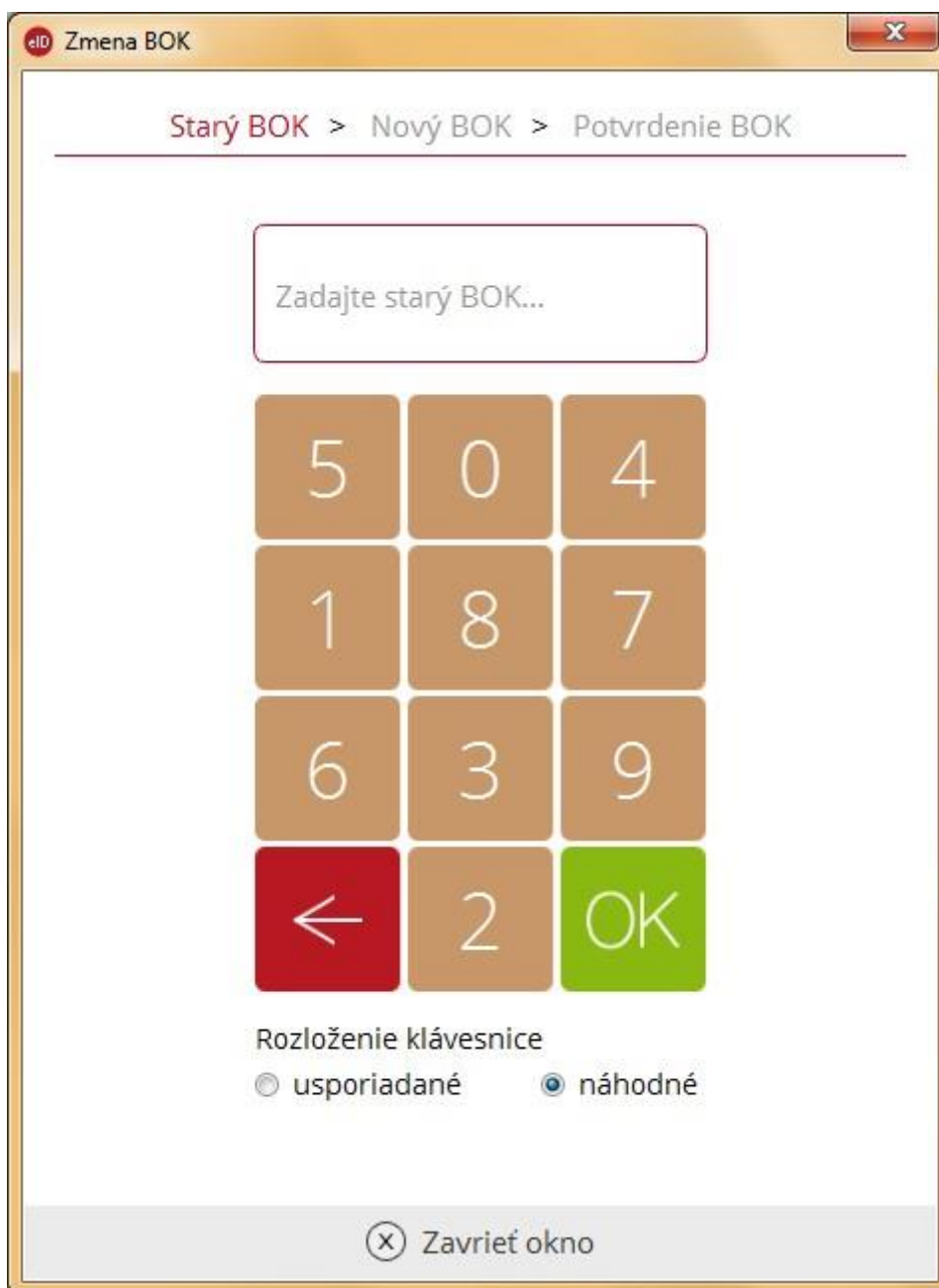


Figure 15: Change of PSC/BOK – code numbers

5. Press **OK**.

In the case of successful change of the PSC/BOK the application will display note about successful operation.

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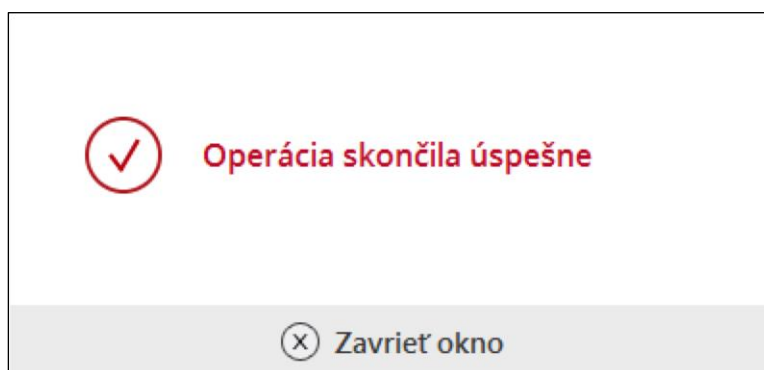


Figure 16: Change of PSC/BOK – information about successful operation

In the case you entered wrong “Previous PSC/BOK” the application will display note about operation failure (Figure 17). At the same time the number of attempts for correct enter of PSC/BOK is lowered.

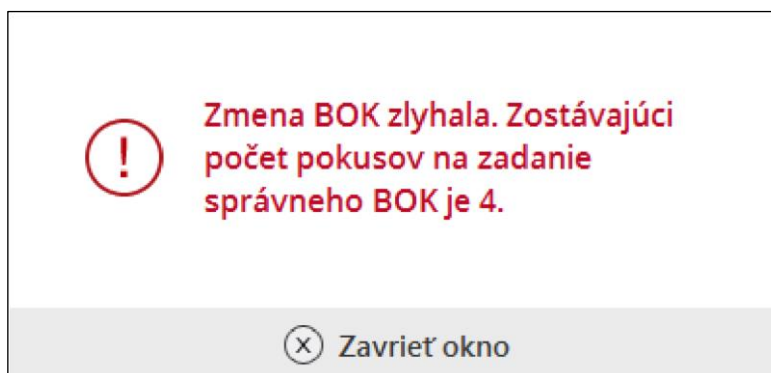


Figure 17: Change of PSC/BOK – incorrect “Previous PSC/BOK”

In the case that “New PSC/BOK” and “Confirmation of new PSC/BOK” are not similar the application will display:

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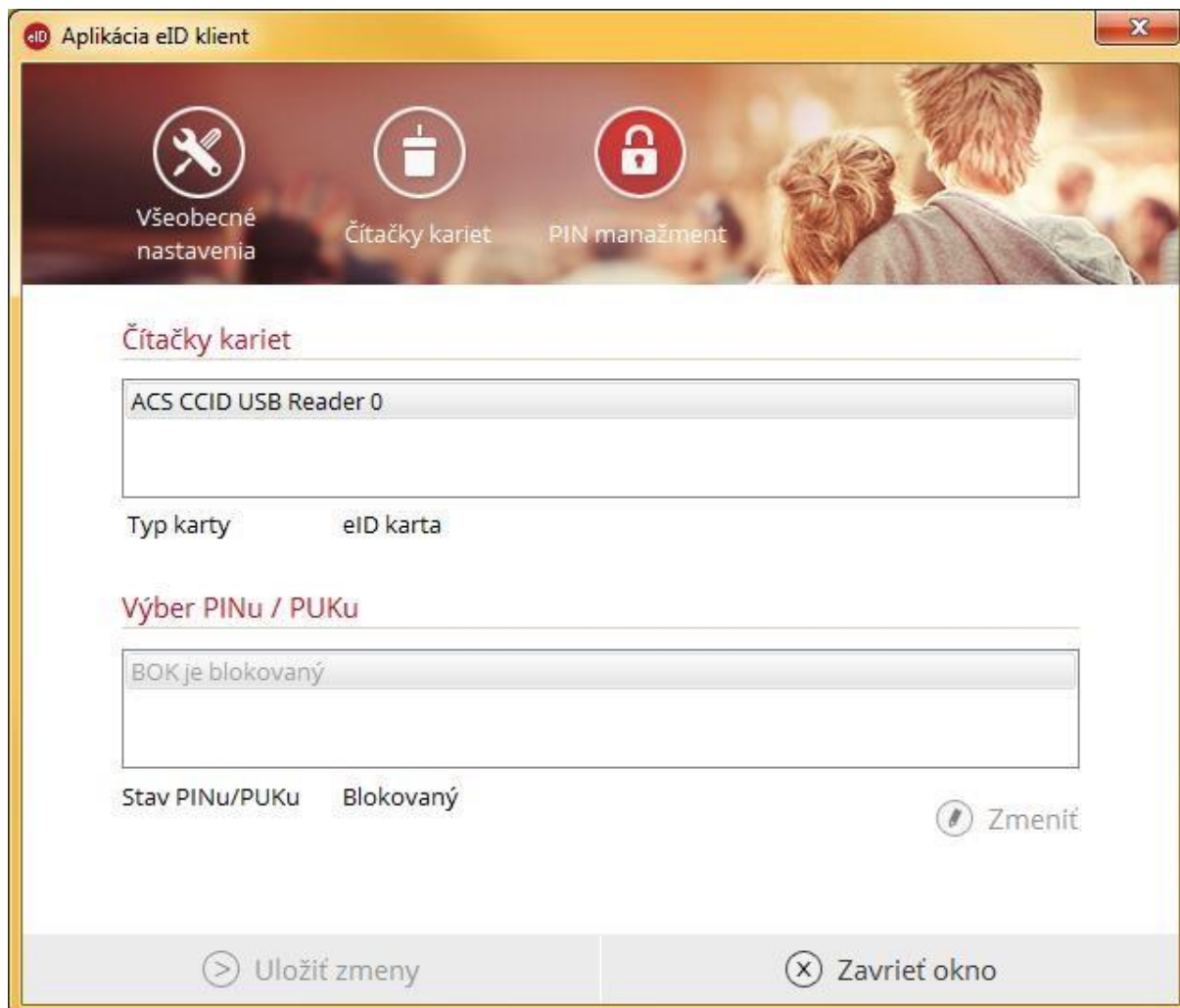


Figure 18: Change of PSC/BOK – PSC/BOKs are not similar

4.2.3.2 Unblocking of PSC/BOK

In the case that your PSC/BOK has been blocked, it is not possible to unblock it through eID client application. You have to go to any office for issue of documents of the District Police Directorate (Oddelenie dokladov Okresného riaditeľstva Policajného zboru) and ask for unblocking of PSC/BOK.

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Aplikácia eID klient

Všeobecné nastavenia Čítačky kariet PIN manažment

Čítačky kariet

ACS CCID USB Reader 0

Typ karty eID karta

Výber PINu / PUKu

BOK je blokovaný

Stav PINu/PUKu Blokovaný Zmeniť

Uložiť zmeny Zavrieť okno

Figure 19: PSC/BOK has been blocked

4.2.3.3. Activation of PSC/BOK

In the case your PSC/BOK has not been activated yet, it is not possible to activate it through the eID client application. You have to go to any office for issue of documents of the District Police Directorate (Oddelenie dokladov Okresného riaditeľstva Policajného zboru) and ask for activation of PSC/BOK.

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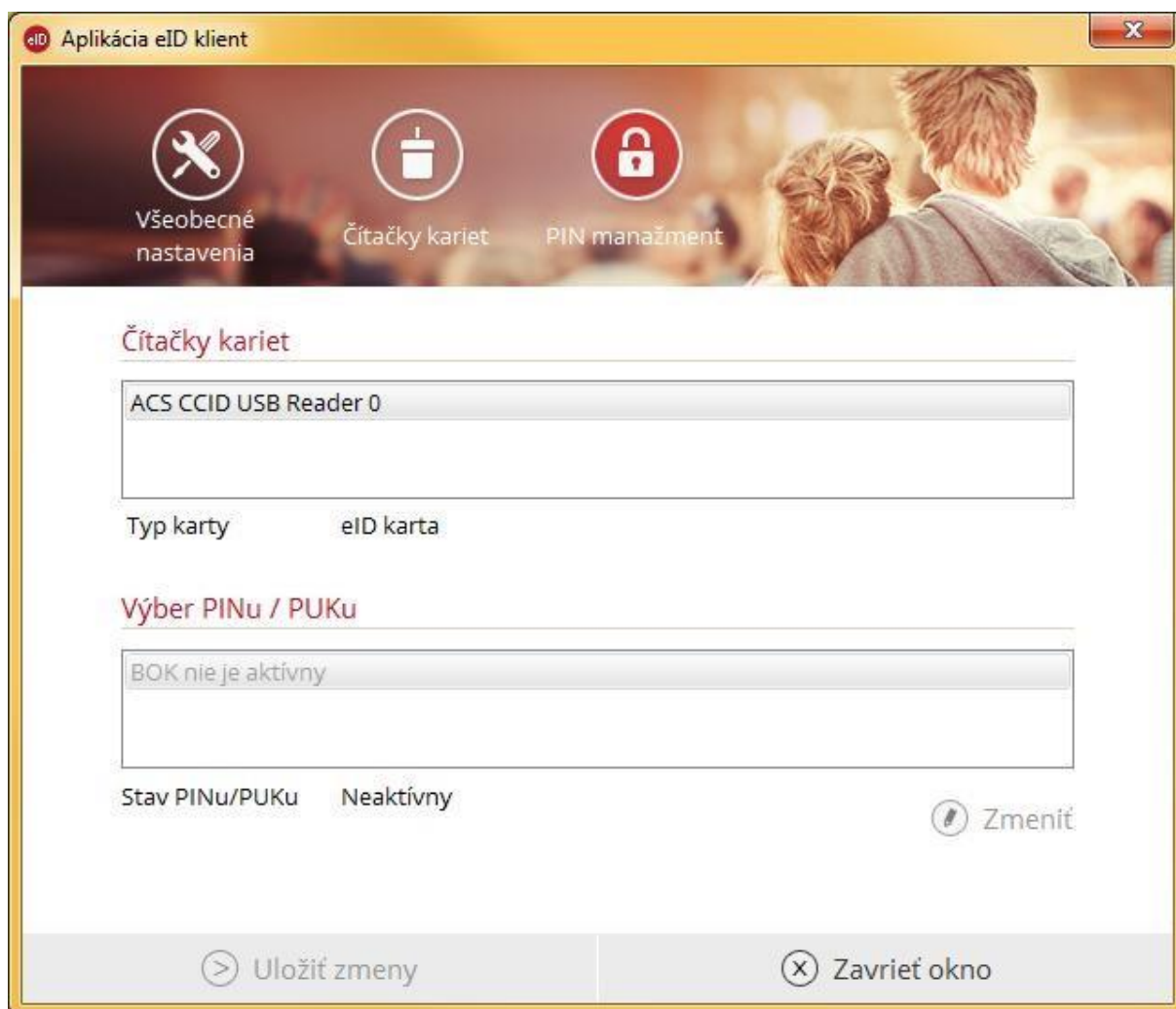


Figure 20: PSC/BOK has not been activated

4.2.3.4 Change of QES/KEP PIN and QES/KEP PUK

If your card has activated QES/KEP profile it is possible to change the QES/KEP PIN and QES/KEP PUK through the eID client application. The process is the same as described in the chapter “4.2.3.1 Change of PSC/BOK”.

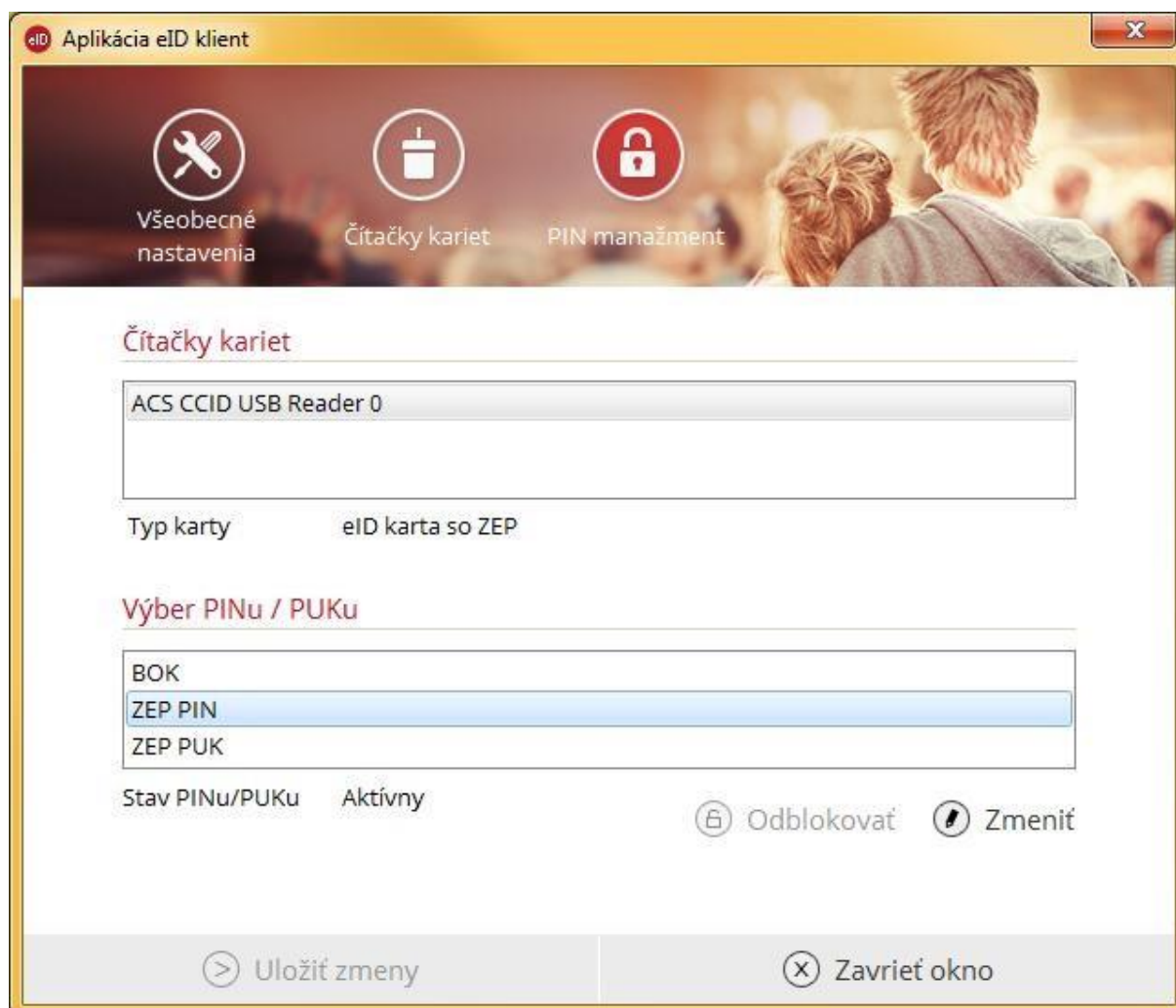


Figure 21: Change of QES/KEP PIN and QES/KEP PUK

4.2.3.5 Unlocking of QES/KEP PIN and QES/KEP PUK

If your card has activated QES/KEP profile it is possible to unblock the QES/KEP PIN through the eID client application. It is not possible to unblock the QES/KEP PUK.

For unblocking of QES/KEP PIN follow these steps:

- 1) Put the eID card to the card reader,
- 2) Choose the card reader with your eID card and QES/KEP,
- 3) Choose **Odblokovať (Unblock)**,

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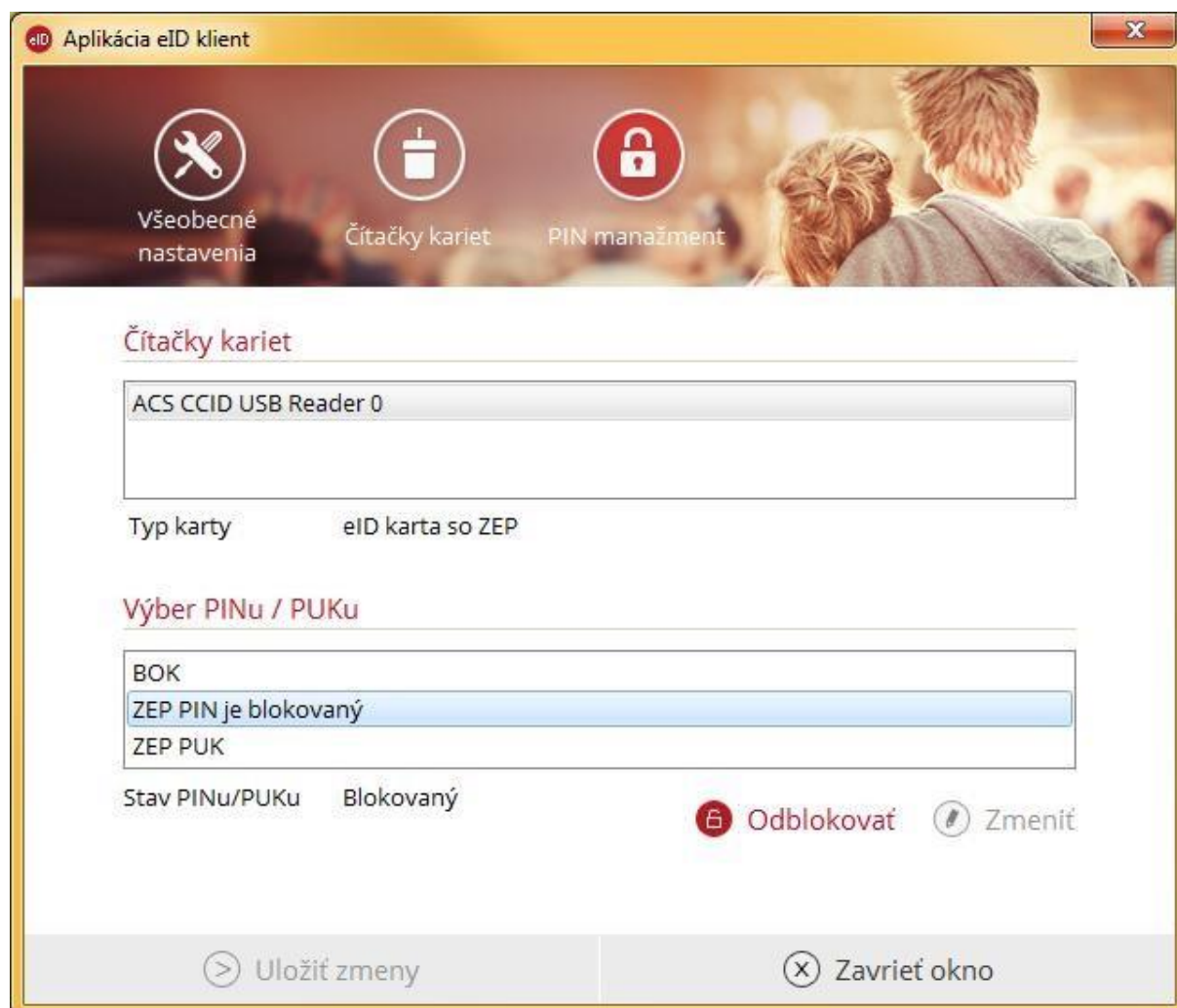


Figure 22: Unblocking of QES/KEP PIN

- 4) On the virtual keypad enter the following codes:
 - a) **QES/KEP PUK,**
 - b) **New QES/KEP PIN and**
 - c) **Confirmation of the new QES/KEP PIN.**



Figure 23: Unblocking of QES/KEP PIN

- 5) Confirm by clicking on **OK**.

In the case of successful unblocking of QES/KEP PIN the application will display note about successful operation.

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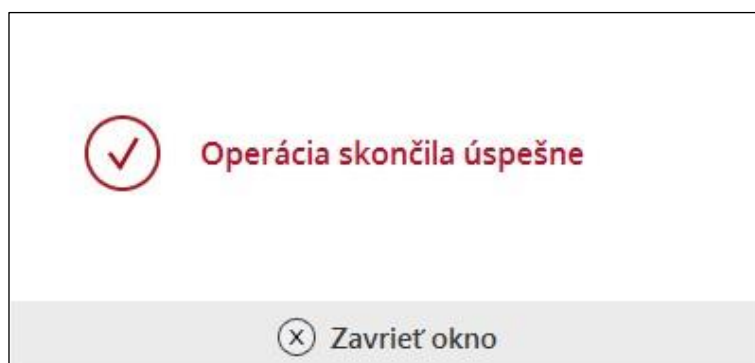


Figure 24: Unblocking of QES/KEP PIN – information about successful operation

In the case you entered wrong QES/KEP PUK the application will display note about operation failure (Figure 25). At the same time the number of attempts for correct enter of QES/KEP PUK is lowered.



Figure 25: Unblocking of QES/KEP PIN – incorrect QES/KEP PUK

In the case that “New QES/KEP PIN” and “Confirmation of new QES/KEP PIN” are not similar the application will display:




Figure 26: Unblocking of QES/KEP PIN – QES/KEP PINs are not identical

4.2.3.6 Activation of QES/KEP PIN and QES/KEP PUK

You may apply for activation of QES/KEP profile on your eID card at any office for issue of documents of the District Police Directorate (Oddelenie dokladov Okresného riaditeľstva Policajného zboru). It is not possible to activate your QES/KEP through the eID client application.

4.3. General information about application

For general information about the eID client application press right mouse button on the icon  in task bar and choose **O programe (About the program)**.

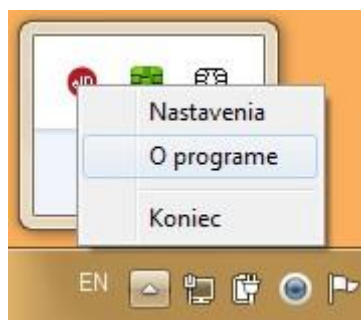


Figure 27: Choosing “O programe” (About the program)

Then the information about the application will be displayed:

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Figure 28: Information about application

4.4 Termination of the application


For the termination of the eID client application press right mouse button on the icon  in the task bar and choose **Koniec (Exit)**.



Figure 29: Termination of the application

When the application is terminated it is not possible to use its functions for identity authorization. In the case of using the eID/eDoPP/AA card for log in to any electronic service the browser will show this failure notice:

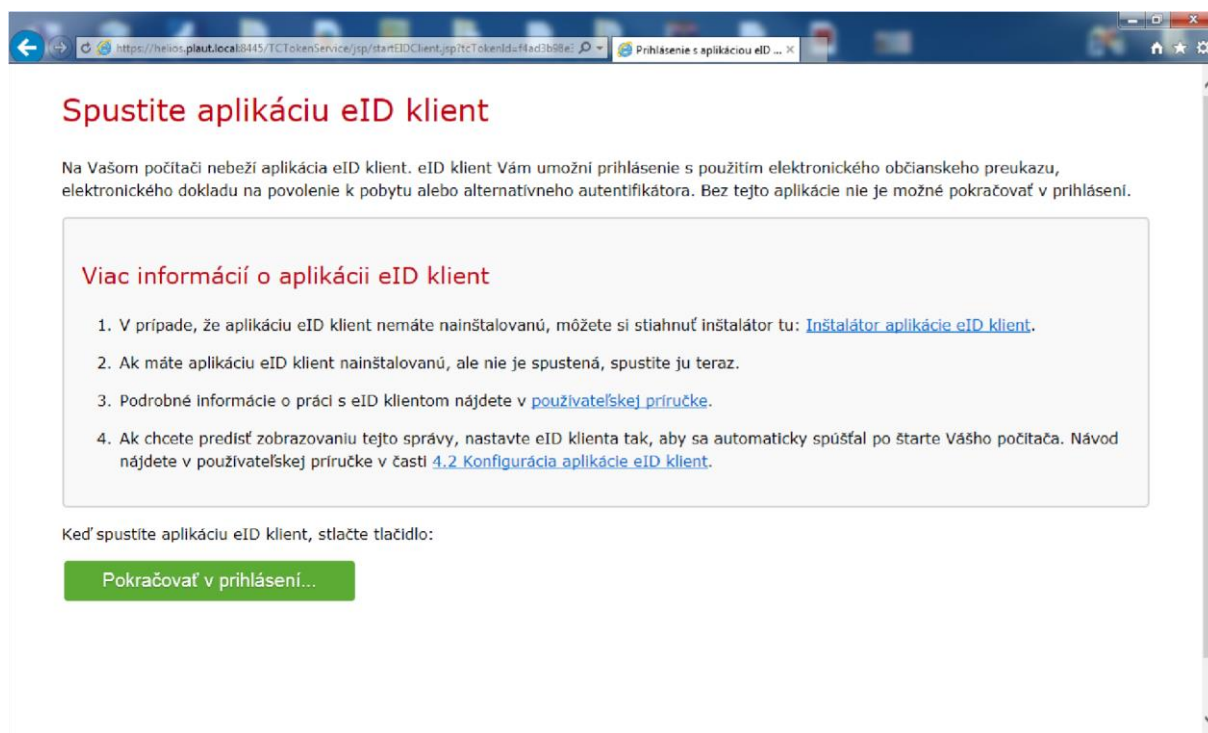


Figure 30: eID client application does not run during the process of identity authorization

5 Use of certificate propagator

5.1 Certificate propagation

After insertion of the eID card to the card reader certificate propagator will call you to enter the PSC/BOK. By entering the correct PSC/BOK, all the certificates for electronic (ES/EP) and qualified electronic signature (QES) will be transferred to the Windows certificate store. Then during the process of creation of QES/KEP or ES/EP the user picks the certificate from the Windows certificate store.

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5.2 Creation of electronic signature

Note: Software (SW) certified by National Security Authority (Národný bezpečnostný úrad - NBU) for creation of QES/KEP or SW for creation of electronic signature (ES/EP) is not a part of SW of eID client installation package. You may find this SW on the portals of the providers of electronic services. For example, for electronic services of the Central Government Portal - CGP (Ústredný portál verejnej správy - ÚPVŠ) that need signature of electronic key, you may download the necessary signing tool [D.Signer/XAdES](#) right on the CGP (www.slovensko.sk).

User interface of SW tools for the creation of QES/KEP and ES/EP may differ, but during the process of creation of QES/KEP and ES/EP the window of eID client application is the same.

During the creation of QES/KEP the user is required to enter:

- PSC/BOK for the access to the card and
- QES/KEP PIN for the access to the private key of qualified certificate.

During the creation of ES/EP the user has to provide his/her PSC/BOK.

Command for entering PSC/BOK and QES/KEP PIN is displayed by these figures:

Propagácia certifikátov

Prosím vložte Váš **BOK**
 Zostávajúci počet pokusov: 5

3

7

2

6

9

8

5

1

4

←

0

OK

Rozloženie klávesnice
☐ usporiadané
 ☒ náhodné

✕ Zavrieť

Figure 31: Entering of the PSC/BOK during the creation of electronic signature

Vytvorenie ZEP

Prosím vložte Váš **ZEP PIN**
Zostávajúci počet pokusov: 3

7

2

1

5

3

8

4

0

6

←

9

OK

Rozloženie klávesnice


☐ usporiadané
 ☒ náhodné

ⓧ Zavrieť

Figure 32: Entering of the QES/KEP PIN for the creation of qualified electronic signature

Note: You may enter the PSC/BOK and QES/KEP PIN on the keypad, but also on the virtual keypad with random layout. This possibility is more secure as it help protect the code from programs with ability to trace the keyboard.

5.3 Termination of propagator

You may terminate the certificate propagator by clicking with the right mouse button on the icon  and choosing **Ukončiť (Exit)**.

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6 Frequently Asked Questions

6.1 Actual version

Where can I find actual version of eID client application?

The actual version of eID client application is available for download on the web portal of the Ministry of Interior of the Slovak Republic - <https://eidas.minv.sk/TCTokenService/download/>.

6.2 Requirements for user's system

By which operating system is the eID client application supported?

1. Windows XP SP3
2. Windows Vista
3. Windows 7: 32 bit / 64 bit
4. Windows 8: 32 bit / 64 bit
5. Windows 10 Threshold 1 (version 1507), Threshold 2 (version 1511), Redstone 1 (version 1607): 32 bit / 64 bit

How can I find out what operating system I have?

1. Windows XP: Start -> Right mouse click on My computer -> folder General -> System
2. Windows Vista: Start -> Control panel -> System and security -> System -> Type of system
3. Windows 7: Start -> Control panel -> System

6.3 Electronic identification documents

Which electronic document may I use with eID client application?

The application supports three types of electronic (chip) documents –

- Identification card with electronic chip (eID),
- Residence card with electronic chip (eDoPP),
- Alternative authenticator with electronic chip (AA).

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You can find more information about documents on the web page of the Ministry of Interior of the Slovak Republic.

Where can I find specimen of eID documents?

You can find specimens of eID documents on web page http://www.minv.sk/?vzory_dokladov

Application cannot recognize electronic identification card?

Make sure that the chip is not damaged or its contact surfaces are not dirty.

6.4 Card reader

Which kinds of card readers can be used with eID client application?

You can use any card reader (integrated or external) that fulfills technical parameters from the following chart.

| Card support | ISO 7812 Class A, B, C |
|-----------------------|------------------------|
| Programming interface | PC/SC |
| Supported protocols | T=0, T=1 |
| Size of the chip | ID-1 |

Why my system does not install the appliance software driver, or it does not install it correctly?

Can I used such application?

The application requires at least one card reader that is installed correctly. In the case that the system cannot install the card reader it is necessary to contact the producer, or download correct driver for such card reader and install it.

Where can I download the driver for my card reader?

You can download the card reader driver at the official web page of the producer. Usually, the card reader driver is part of the package and you can find it on some kind of data medium (CD or DVD).

6.5 Application notifications

What should I do when the application says that my card reader is not connected?

Connect the card reader to the computer or check the right configuration of the card reader and start the application again.



Figure 33: Error – card reader is not connected

6.6 Errors

What does it mean, when the application shows error with information about the failure of verification of TLS certificates?

In the case that into the secured communication between the eID client application and eID AS server enters some other application, or process, eID client application will show error with information about error number 120019: "Zlyhala verifikácia TLS certifikátov chrániacich bezpečnosť presunu údajov z eID karty..." ("The verification of TLS certificates protecting the secure transfer of data from the eID card failed..."). eID client application will not allow reading of the data from eID/eDoPP/AA card as the transfer to the server is not secured. This problem may be caused by application on user's computer (e.g. antivirus, virus) or proxy server, through which the user enters to the Internet.

In the section **Systémové informácie (System information)** eID client will show more information about invalid certificate. This information may identify the process that enters to the secured communication.

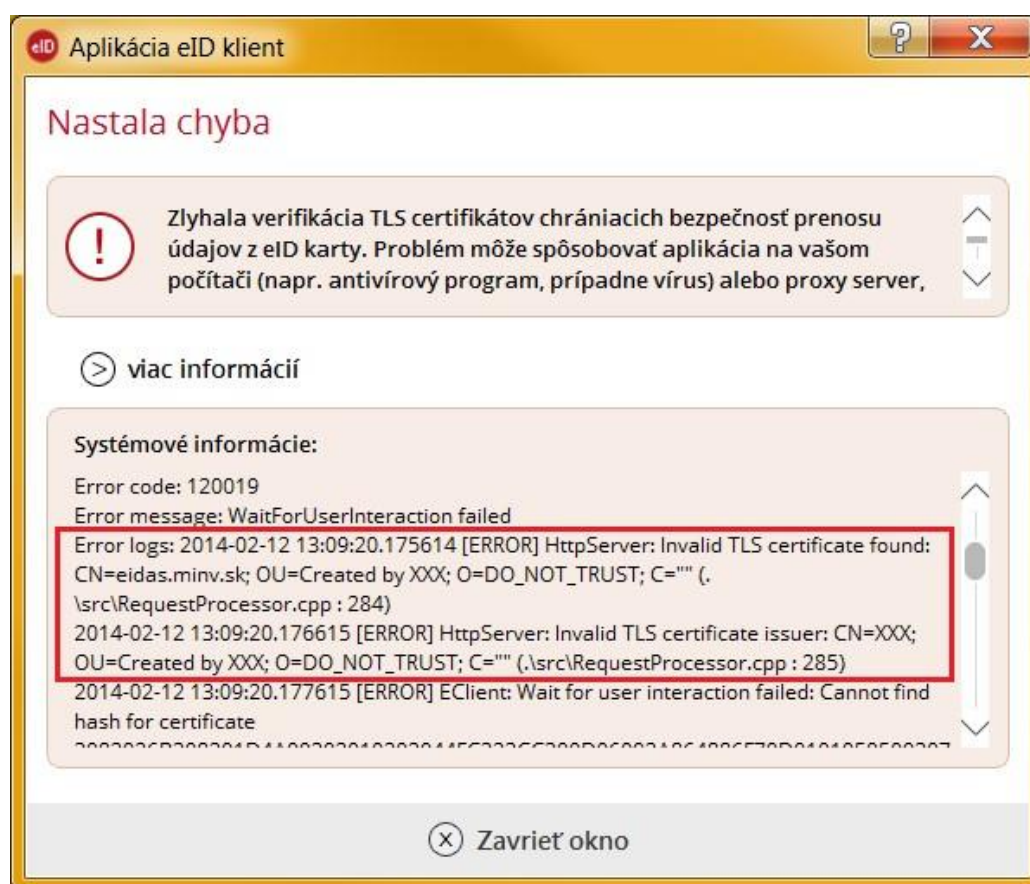


Figure 34: Error - failure of verification of TLS certificates

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7 Appendix No 1 – Installation of eID client application

1. Download the installation file **eID_klient.msi** from the web page of the Ministry of Interior of the Slovak Republic (<https://eidas.minv.sk/TCTokenService/download/>) and start the installation.
2. The installation guide of eID client application will appear:

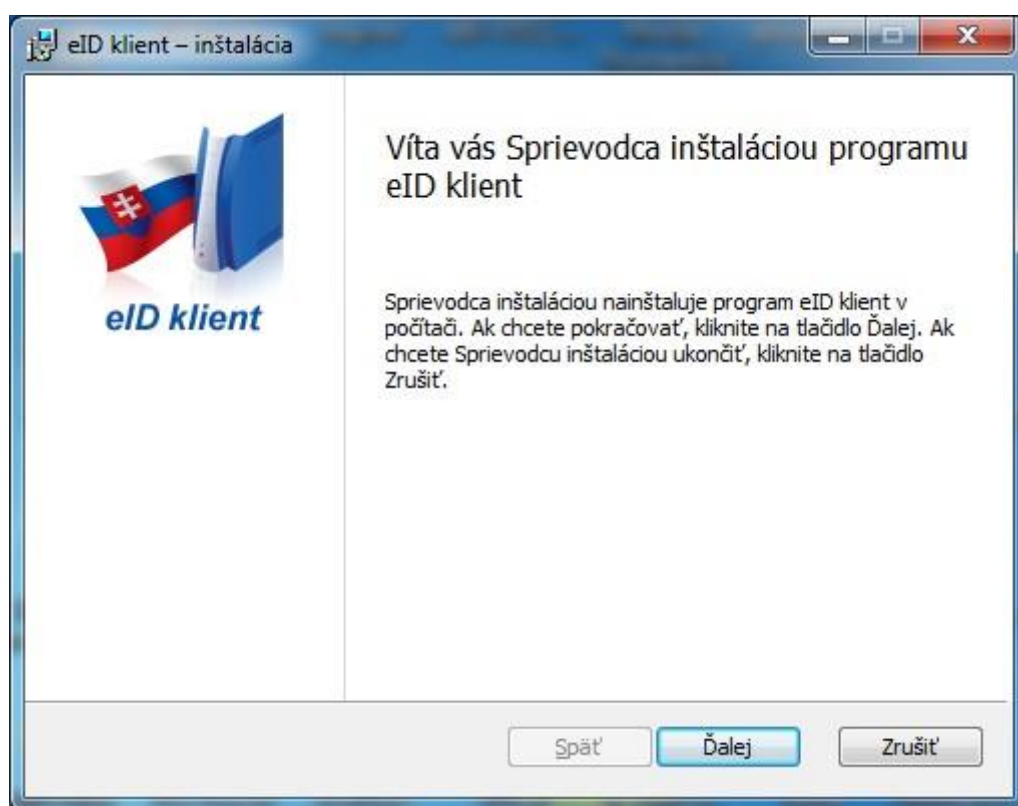


Figure 35: Application installation guide

Press **Ďalej (Continue)**.

3. General terms of the use of eID client application.

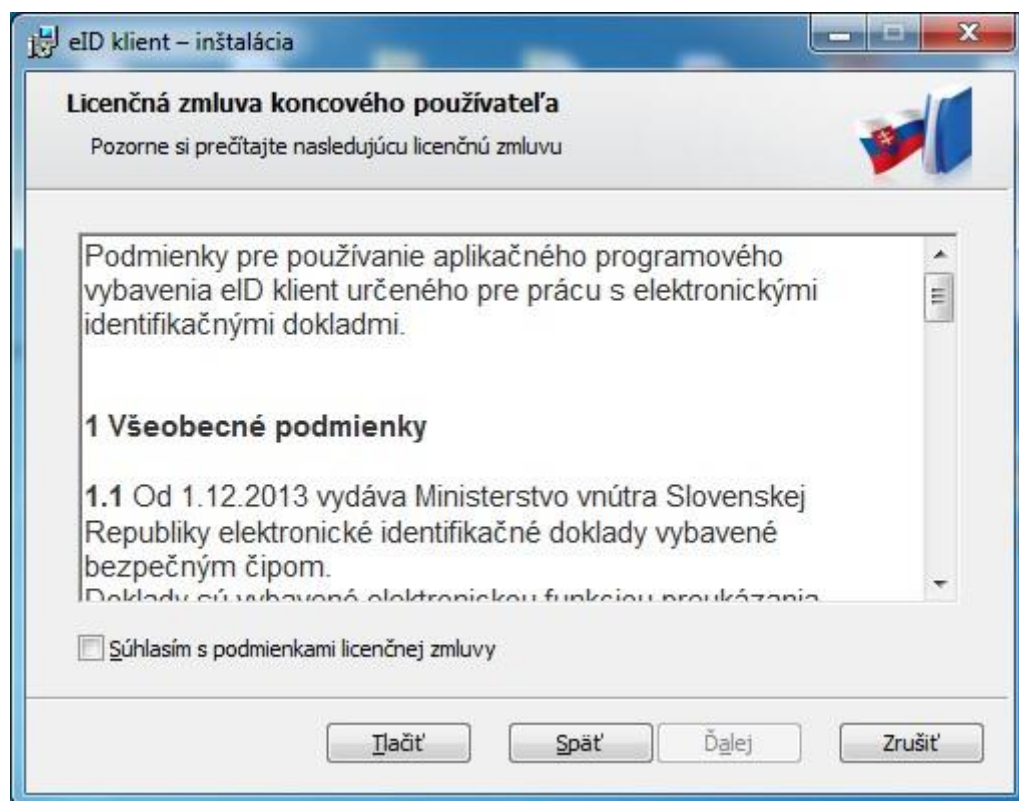


Figure 36: General terms

If you agree with license agreement for the final user mark ☒ "Súhlasím s podmienkami licenčnej zmluvy" ("I agree with the terms of license agreement") and press **Ďalej (Continue)**.

- The whole folder for application installation (we advise not to change the folder).

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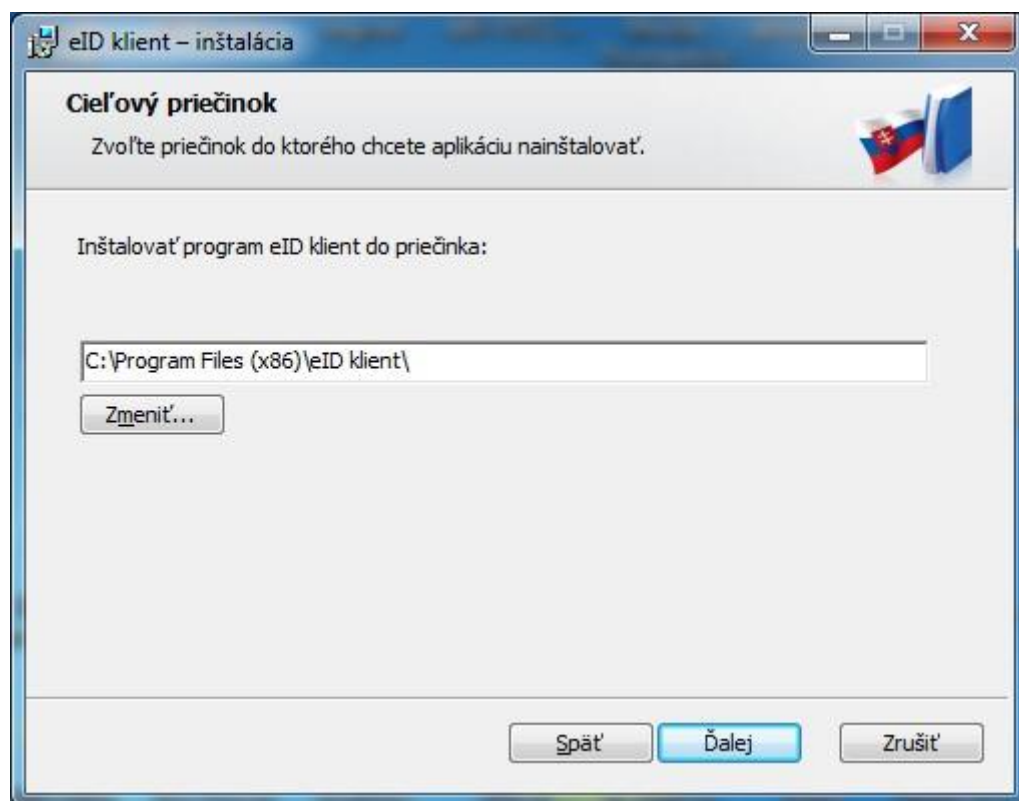


Figure 37: Choice of the folder where the application will be installed

After selection of the folder press **Dalej (Continue)**.

5. Choice: start of the eID client application after the start of the Windows.

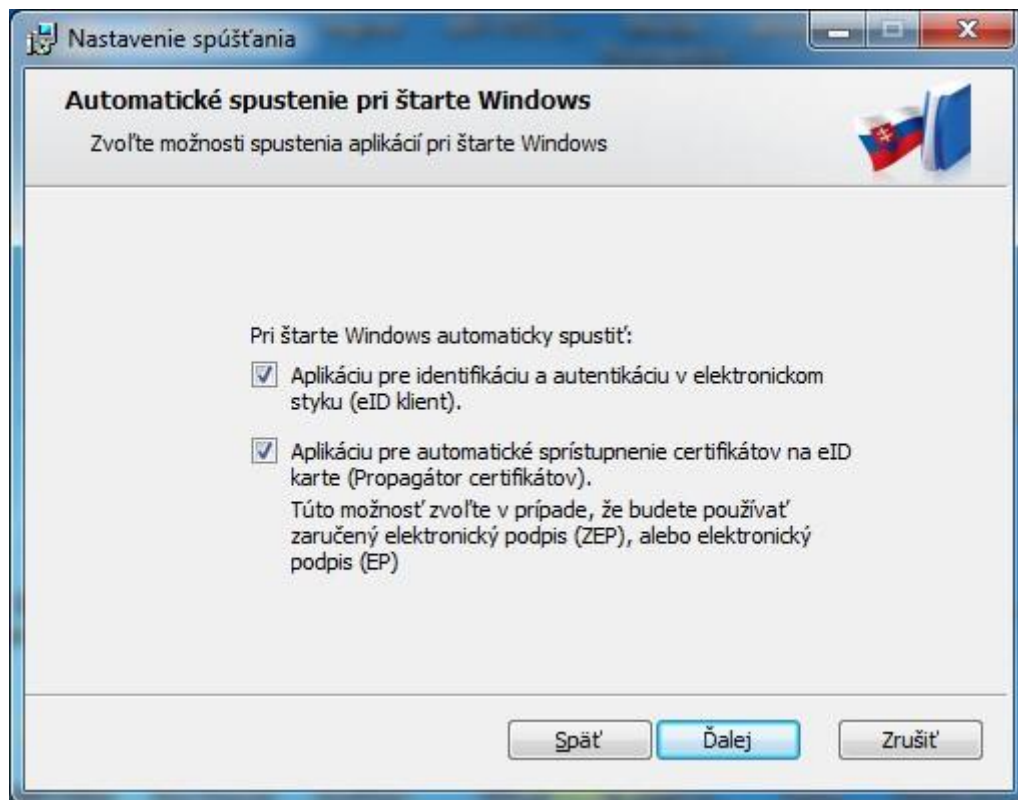


Figure 38: Automatic start of the application

If you agree to automatic start of the eID client application after the start of the Windows, leave the checkbox filled in and press **Ďalej (Continue)**.

6. Start of the process of the installation.

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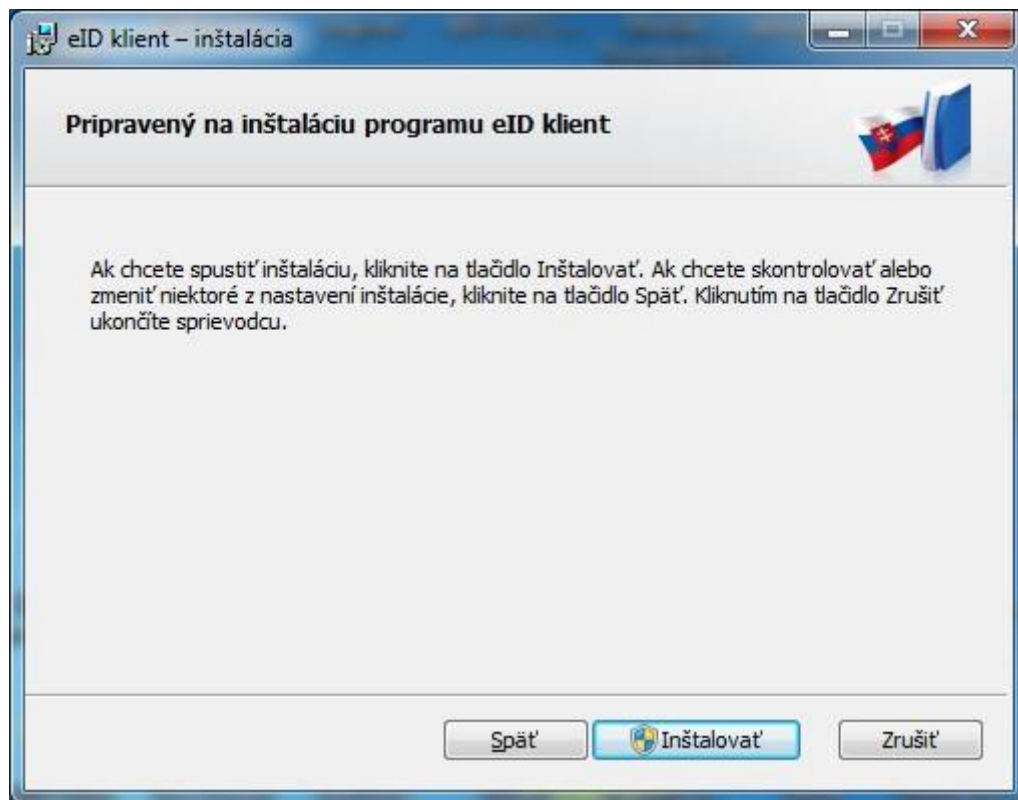


Figure 39: Installation

Press **Inštalovať (Install)**.

7. Process of the installation.

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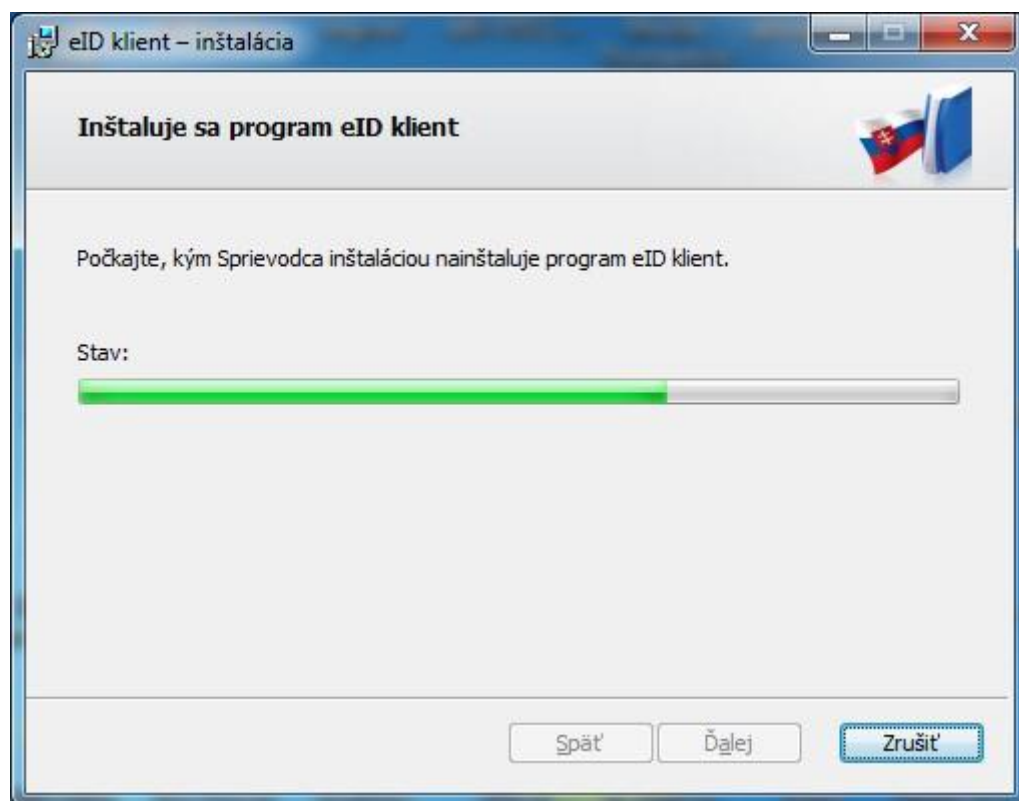


Figure 40: Application installation - Process

The application will be installed into chosen directory.

8. End of the installation and start of the application.

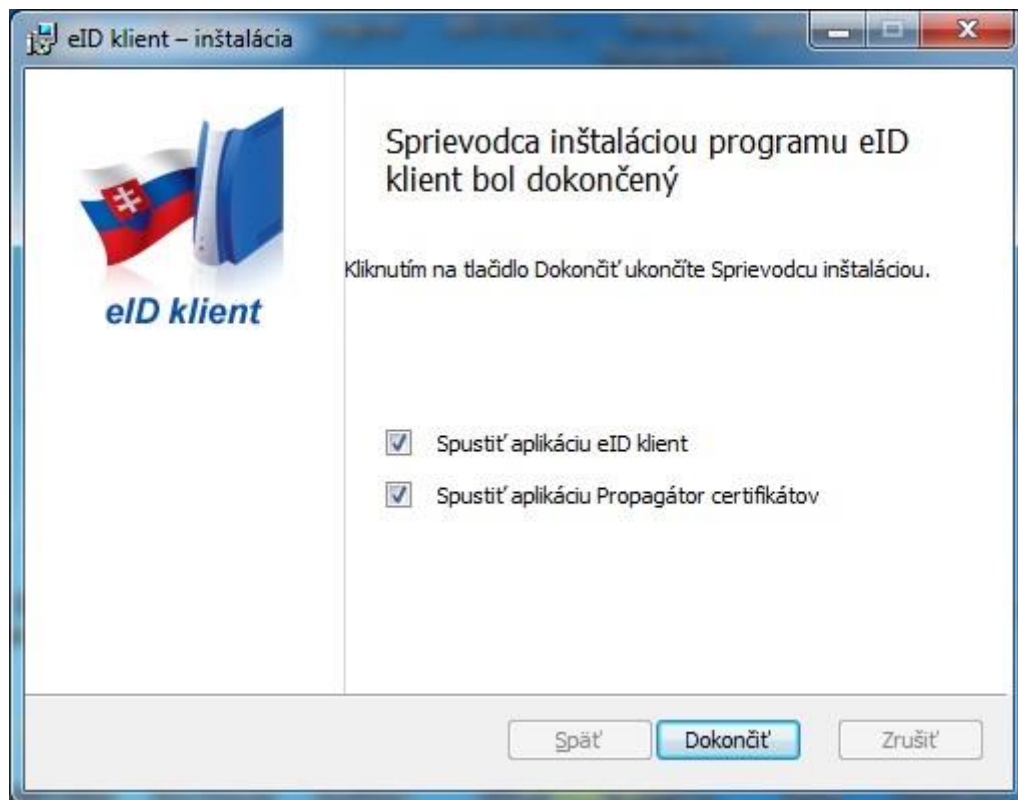


Figure 41: Application installation - Finishing

Press **Dokončiť (Finish)**. If you leave the box **Spustiť aplikáciu eID klient (Start the eID client application)** checked, the application will start automatically after the installation. In the case you left that box empty you may start the application as it was described in the chapter “3.2 Start of application”. The same applies for the application **Propagátor certifikátov (Certificate propagator)**.







8 Appendix No 2 – Requirements for configuration of internet browser

The correct function of the electronic authorization is conditioned by the correct configuration of the internet browser. Following chart displays the list of relevant parameters of browser's configuration and its necessary setting:




| Parameters of browser's configuration | Parameter settings | Reason | Result of usage of other setting than advised |
|---|---|--|--|
| Active scripting | It is preferred but not obligatory, so the active scripting can be allowed in your browser. | During the electronic authorization there are used also active scripts JavaScript. Scripts ensure: <ol style="list-style-type: none"> 1. Check whether the eID client application runs in your computer, 2. Automatic redirection from the portal of the electronic service provider to the system of electronic authorization and back. | The user will have to start these application on his own by clicking on the button in the browser. |
| Saving and reading of "cookie" files by website | Must be allowed | Electronic identification system uses temporary cookies for identity authorization that involves several server calls. Cookie is deleted after the end of the authorization. | Identification through the identity card will not function. |

9 Appendix No 3 – List of tested card readers

This list represent those card readers that were tested with eID client application on Windows platform. The fact that card reader is not on this list does not mean that it will not work correctly with eID client application.

| | |
|---|--|
|  | Name: OMNIKEY 3021 |
| | Producer: HID Global |
| | Drivers: http://www.hidglobal.com/drivers?field_brand_tid=24&product_id=15424&os=All |
|  | Name: OMNIKEY 3121 |
| | Producer: HID Global |
| | Drivers: http://www.hidglobal.com/drivers?field_brand_tid=24&product_id=3950&os=All |
|  | Name: OMNIKEY 3621* |
| | Producer: HID Global |
| | Drivers: http://www.hidglobal.com/drivers?field_brand_tid=24&product_id=3951&os=All |
|  | Name: OMNIKEY 3821* |
| | Producer: HID Global |
| | Drivers: http://www.hidglobal.com/drivers?field_brand_tid=24&product_id=3952&os=All |
|  | Name: ACR38 SAM Smart Card Reader |
| | Producer: ACS |
| | Drivers: http://www.acs.com.hk/index.php?pid=drivers&id=acr38 |
|  | Name: SDI010 USB reader |
| | Producer: SCM Microsystems |
| | Drivers: http://www.scm-pc-card.de/index.php?page=download&function=show_downloads&lang=en&product_id=230 |
| | Name: SCR3310 v2 |
| | Producer: SCM Microsystems |

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|---|--|
|  | Drivers: http://www.scm-pc-card.de/index.php?lang=en&page=download&function=show_downloads&product_id=608 |
|  | Name: Teo Producer: XIRING Drivers: http://www.teobyxiring.com/Teo-by-XIRING-smartcard-reader-Technical-support.aspx |
|  | Name: IDBridge CT30 Producer: Gemalto Drivers for Windows: https://eidas.minv.sk/TCTokenService/download/ |

*For correct use of electronic keyboard driver of card readers OMNIKEY 3621 and 3821 it is necessary to set following key (advanced users) in Windows register through standard tool regedit:

Path: HKeyLocalMachine\System\CurrentControlSet\Control\CardMan
Key: APDU_T1Mode (DWORD)
Value: 1 (Enable)