

Authentication

Introduction

Communication between a Client and TaxCore.API is carried out via the HTTPS protocol.

The Client is authenticated by TaxCore.API using either a client certificate or an authentication token obtained from TaxCore.API. To obtain an authentication token, a client certificate authentication has to be successfully conducted as the first step. For more information see [Request Authentication Token](#).

Once token has been obtained HTTP request must contain *TaxCoreAuthenticationToken* key in the request HTTP headers with a valid authentication token as a value.

Digital Certificates and PIN Codes

The tax authority's system issues a Secure Element to a taxpayer as follows:

1. Taxpayer's digital certificate is stored in the Secure Element.
2. The Secure Element is stored on the smart card.
3. The PIN or password is generated and printed on the PIN mailer.
4. The Secure Element and PIN code are securely delivered to the taxpayer.

Digital Certificates for Testing Purpose

The tax authority will issue the requested number of test digital certificates to each accredited supplier and each accredited taxpayer.

Authentication Token

E-SDC uses an authentication token when calling the TaxCore API web services. Authentication token is obtained from TaxCore API by calling the service [Request Authentication Token](#) and providing a Taxpayer's digital certificate.

Role of the PKI Applet

PKI (public key infrastructure) Applet is installed along with the Secure Element Applet on the same Smart Card.

The role of the PKI applet is to support the secure communication and client certificate authentication with TaxCore.API using HTTPS protocol. The certificate used to establish a secure connection is stored on a smart card and it can be accessed from the PKI Applet using PKSC#11 API.

The certificate is loaded in the slot / token structure on the PKI Applet.

After the certificate is extracted from the smart card (in DER format) it can be used as a standard X.509 certificate for TLS/SSL and HTTPS protocols.

Valid PIN is required to read the certificate from PKI Applet using PKCS#11 API. Pin for PKI Applet is the same as the PIN for the Secure Element Applet.

Content

1. [Required Drivers](#)

Smart Cards are programmed with PKI firmware according to GIDS (Generic Identity Device Specification) standard. Appropriate drivers shall be installed/programmed on an E-SDC in order to enable PKI Applet usage.