

Choosing an Appropriate Model

The following explanation should help you decide which fiscalization model is the most appropriate for your clients.

	V-SDC	E-SDC
Protocol	HTTPS	HTTP
To establish communication with POS	Certificate required	Certificate Not required
API methods	SignInvoice, GetTaxAuthorityParams	VerifyPIN, SignInvoice, AttentionGetStatus, GetSignedInvoice, GetTaxAuthorityParams
Authentication method	*PAC/PIN	**PIN code
SignInvoice method (Invoice Request)	Same as E-SDC + PAC	Same as V-SDC
Find out what is the latest signed invoice in case of communication failure	YES	YES
Internet connection required to work	YES	NO

*PAC code is sent to the two-factor authentication method (PAC Code and POS PFX Certificate). It is also an option for POS to authenticate to VSDC using the POS secure element (smart card), in which case the PIN is sent by POS during authentication (handshake).

**ESDC requires a PIN code to be sent through the VerifyPIN method in order for ESDC to be activated

Differences Between V-SDC and E-SDC

V-SDC	E-SDC
V-SDC uses the HTTPS protocol.	E-SDC uses the HTTP protocol.
An authentication certificate is required to establish	No Authentication certificates are required to

communication between a POS and V-SDC.	establish communication between a POS and E-SDC.
API methods used for V-SDC are: <i>SignInvoice</i> and <i>GetTaxAuthorityParams</i> .	API methods used for E-SDC are: <i>VerifyPIN</i> , <i>SignInvoice</i> , <i>Attention</i> , <i>GetStatus</i> , <i>GetSignedInvoice</i> and <i>GetTaxAuthorityParams</i> .
V-SDC requires sending a PAC code as a property in the <i>InvoiceFiscalizationRequest</i> , as a two-factor authentication method (PAC Code and POS PFX Certificate).	E-SDC does not require sending a PAC code as a property in the <i>InvoiceFiscalizationRequest</i> . Instead, E-SDC requires sending a PIN code through the <i>VerifyPIN</i> method in order for ESDC to be activated.
<i>SignInvoice</i> methods for both V-SDC and E-SDC are identical, except when a PAC code is required if the authentication between POS and V-SDC is established through the POS PFX certificate.	HASH property of <i>InvoiceFiscalizationRequest</i> or <i>GetSignedInvoice</i> is designed only for E-SDC, and not for V-SDC.
V-SDC is a cloud-based service, therefore a POS requires an available internet connection in order to sign invoices.	E-SDC is a semi-online-based solution; therefore, it does not require an available internet connection to sign invoices. E-SDC can be connected to the local network (LAN cable or Wi-Fi) or directly to the POS via a LAN cable.

1. [Recommendation Examples](#)

This section gives examples of the most common implementation scenarios, for different end-users.