Electronic Fiscal Device - EFD

Electronic Fiscal Device (EFD) is composed of an [Invoicing System](#) (POS), an SDC and a Secure Element, all connected into one system. EFD produces [fiscal receipts](#) and reports [Audit Data](#) to a tax authority.

There are different options for a taxpayer's EFD setup. Every taxpayer can decide which EFD setup best suits his/her business needs.

Examples

Below are examples of different EFD setup options with brief descriptions:

## Invoicing System with V-SDC via digital file certificate

Invoicing system is connected with V-SDC service using an internet connection and fiscal invoices cannot be issued without the Internet. Taxpayers are authenticated against V-SDC through locally installed digital certificates.

Invoicing System with V-SDC via smart card
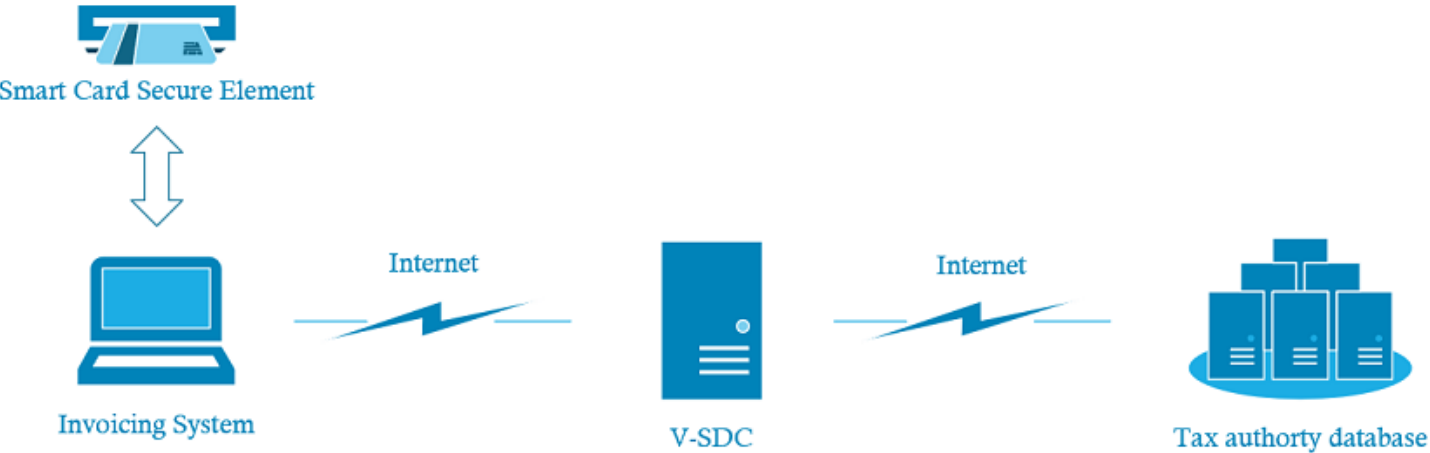
Invoicing system is connected with V-SDC service using an internet connection and fiscal invoices cannot be issued without the Internet. A smart card certificate is used for taxpayer authentication to the V-SDC service.

Multiple invoicing systems with V-SDC
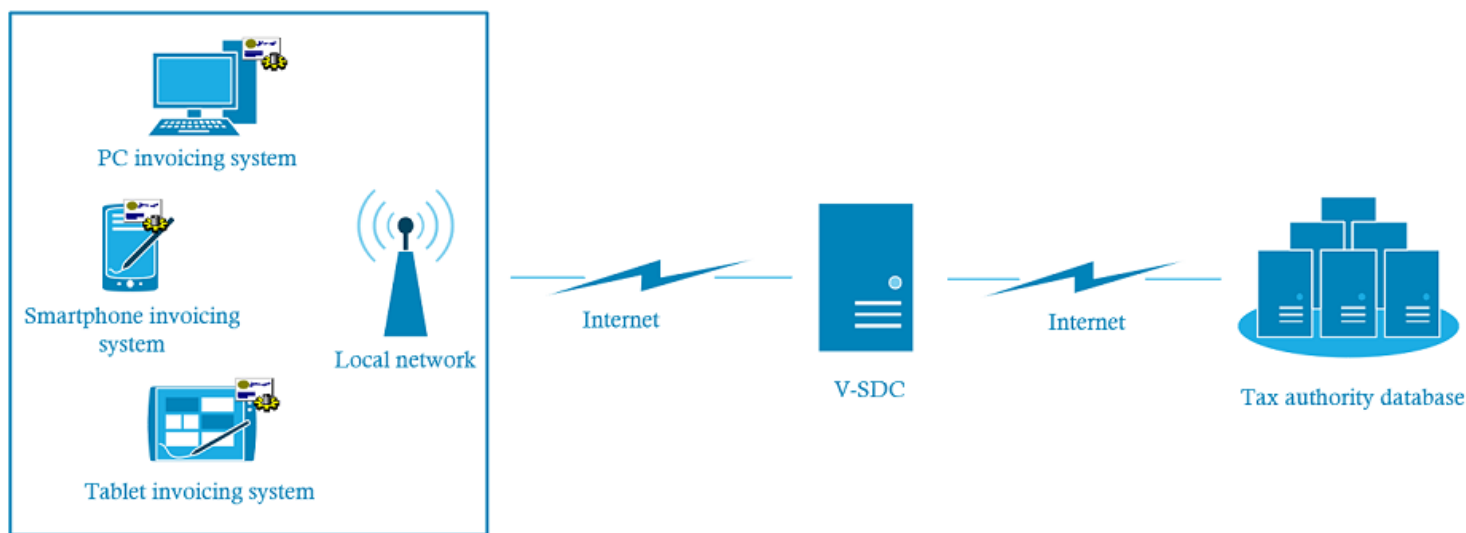
More invoicing systems are linked, either through a local network or directly over the Internet, to a V-SDC. Users are authenticated through locally installed digital certificates. Receipts can only be issued if an internal connection is available.

The benefit of this setting is the taxpayer's compliance which is almost completely free of charge, as mobile applications and existing smart invoicing devices can be used without any additional hardware on-premise.
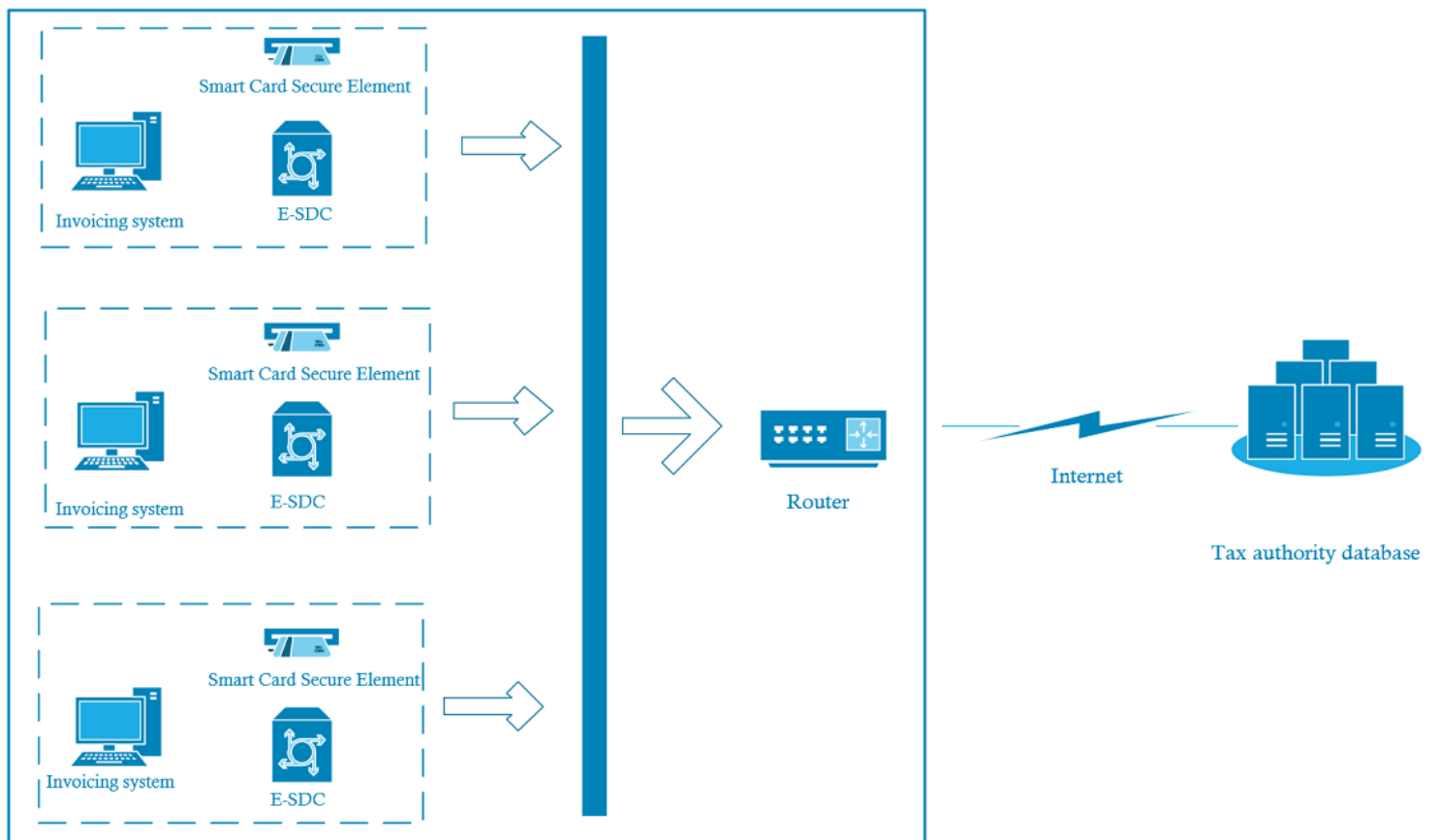
Invoicing System with E-SDC
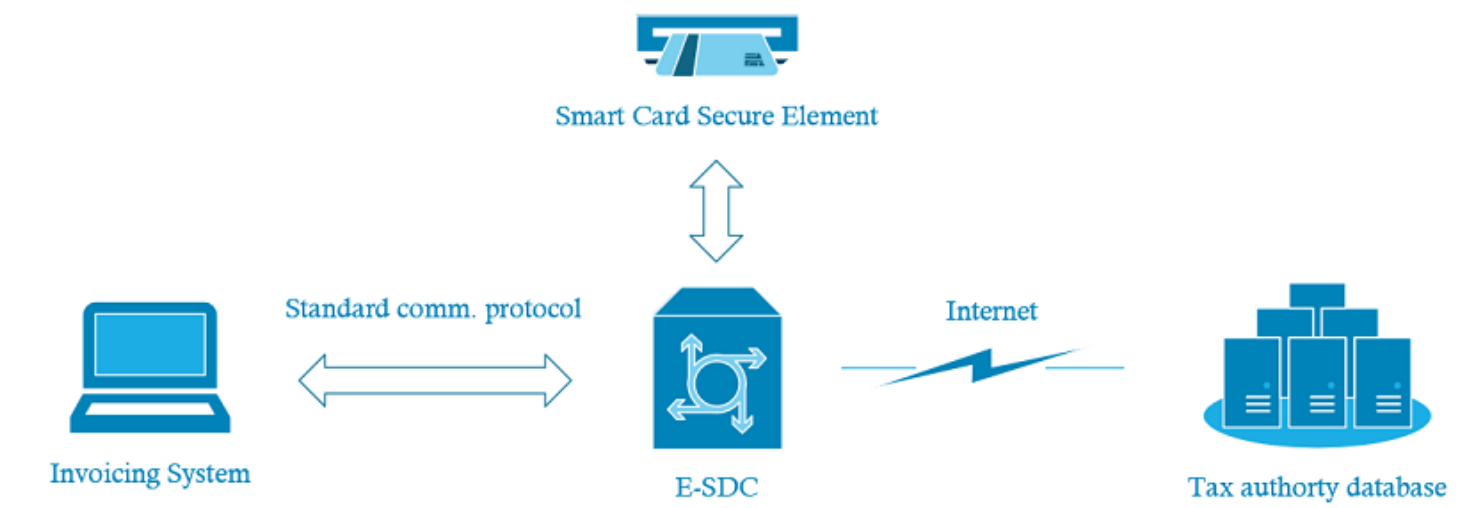
Invoicing System is connected to a locally kept E-SDC solution. This setup enables taxpayers to issue fiscal invoices with or without an internet connection. E-SDC communicates with the smart card secure element in order to authenticate the taxpayer, create digitally signed invoices and perform audits.

## Multiple Invoicing Systems with one E-SDC
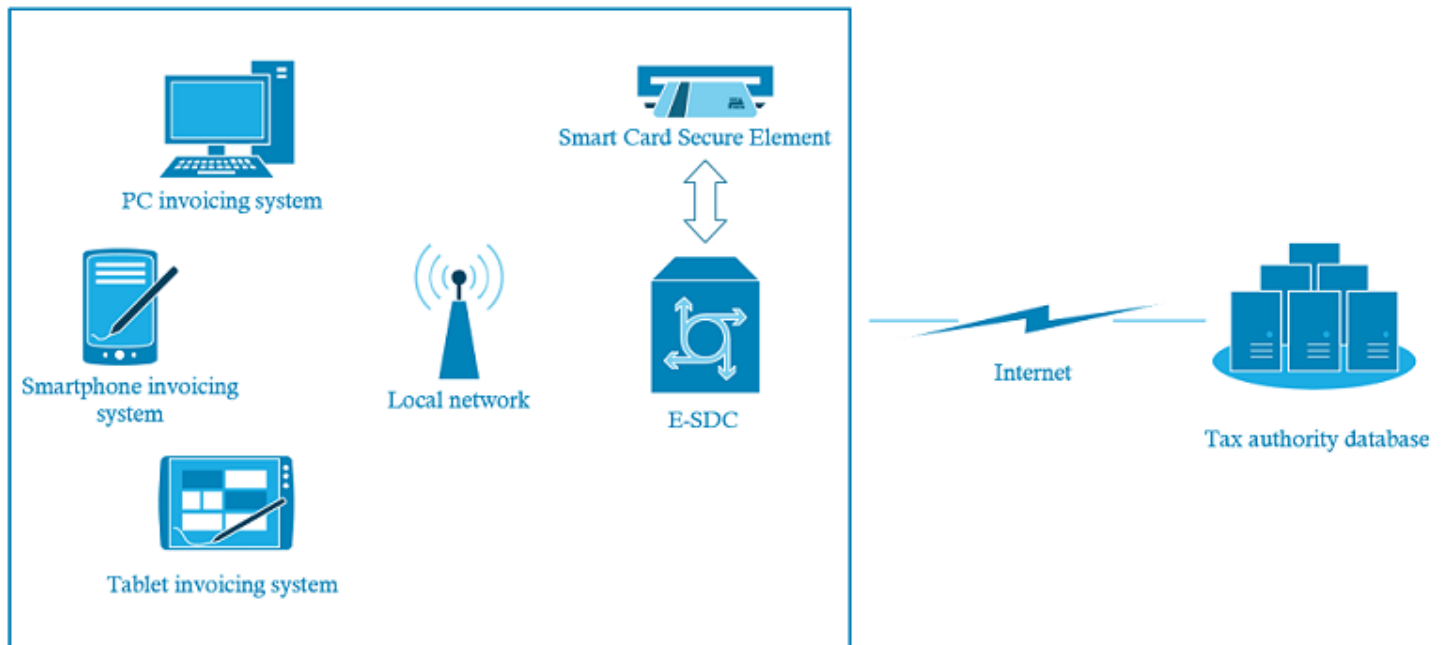
Invoicing systems connect through the wireless local network to an E-SDC. This enables receipt fiscalization even when the internet connection to the СУФ database is not available. An example of such an installation is, for example, a showroom or other sales facility where some or all salespersons are equipped with receipts issuing devices.

Multiple Invoicing Systems with their own E-SDC

Invoicing systems are directly linked to E-SDCs and they enable receipts to be issued at the point of sale even when local area network or internet is not available. This setting is typical of supermarkets with multiple points of sales.

Invoicing systems with both V-SDC and E-SDC
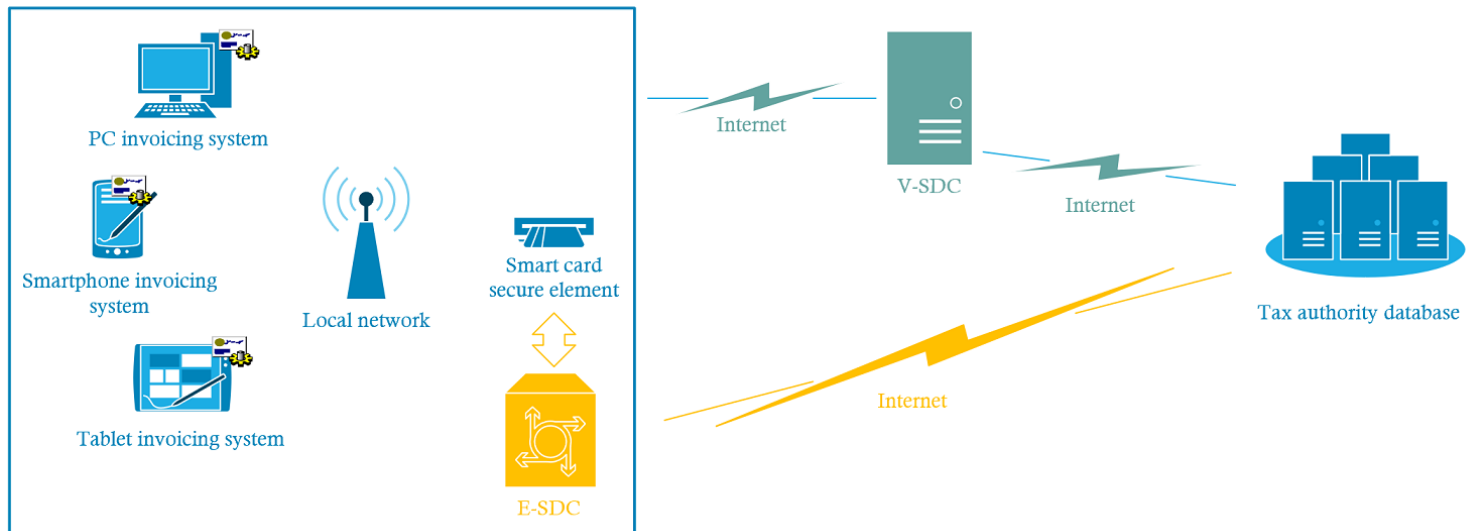
As the **default option**, one or more invoicing systems are linked, either through a local network or directly over the Internet, to a V-SDC. Taxpayers are authenticated through locally installed digital certificates or a smart card secure element. Fiscal invoices can only be issued if an internal connection is available.

As the **alternative option**, in case the internet connection is unavailable, the taxpayer switches to E-SDC and continues issuing fiscal invoices in the offline mode. The E-SDC saves all the invoices in its memory and submits them once the internet connection returns.

Web shop fiscalization
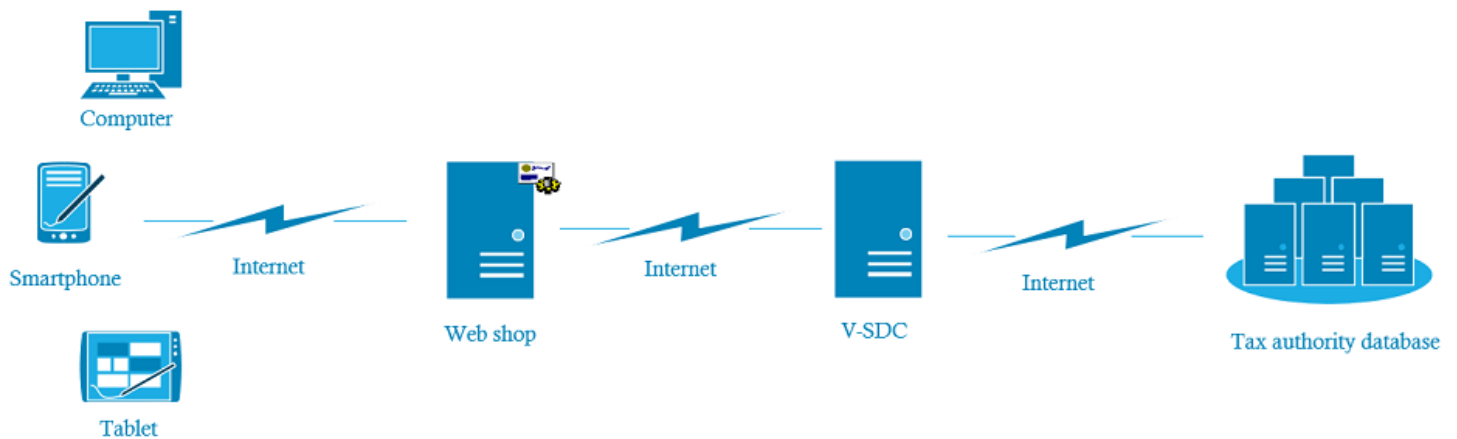
Fiscalization of web shops (both local and international ones) operating in the local market can be done by linking websites through which goods and services are sold with an online sales data controller (V-SDC).

A variation in this situation is the web shops that provide goods and services sales to third parties. In that case, the taxpayers would have to delegate the rights to use their digital certificates to the web shop, which would then use them to authenticate to V-SDC.

ERP system fiscalization
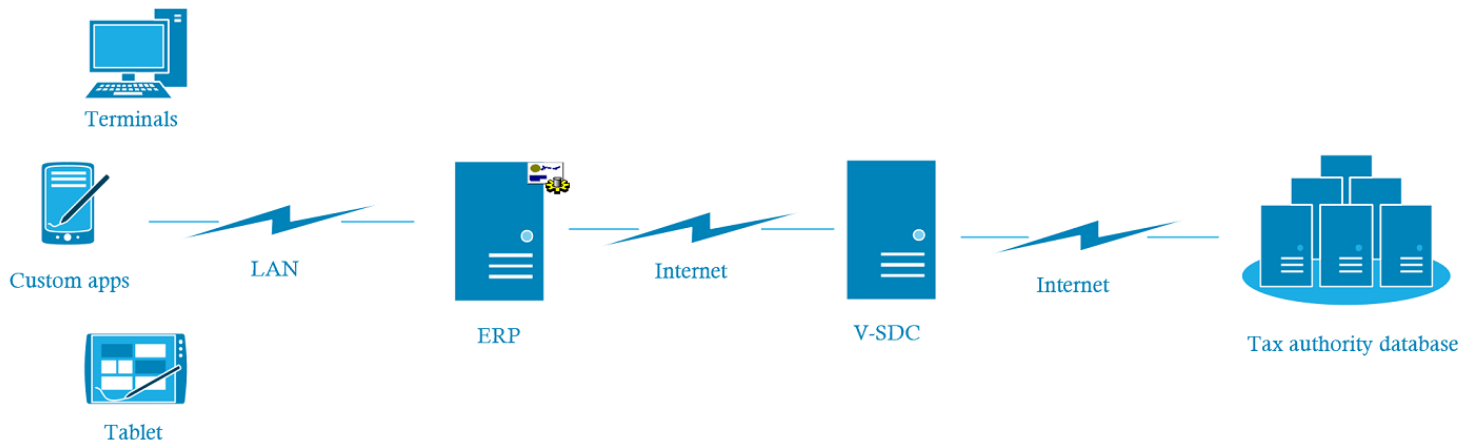
Issuance of fiscal receipts or invoices can also be done through Enterprise Resource Planning (ERP) systems that issue invoices to clients massively and in a previously defined period (e.g. Public utility services or telephone bills which are issued once a month to customers). Before sending or printing the invoice, ERP would contact a V-SDC to have the invoice fiscalized.