

# EFD Vendors

This documentation puts forward detailed technical instructions for all EFD vendors. Make sure you read them carefully if you plan to develop an invoicing system (POS) or an E-SDC solution.

Only solutions that are fully compliant with these instructions will be officially accredited by the [accreditation authority](#).

## Components of Electronic Fiscal Device

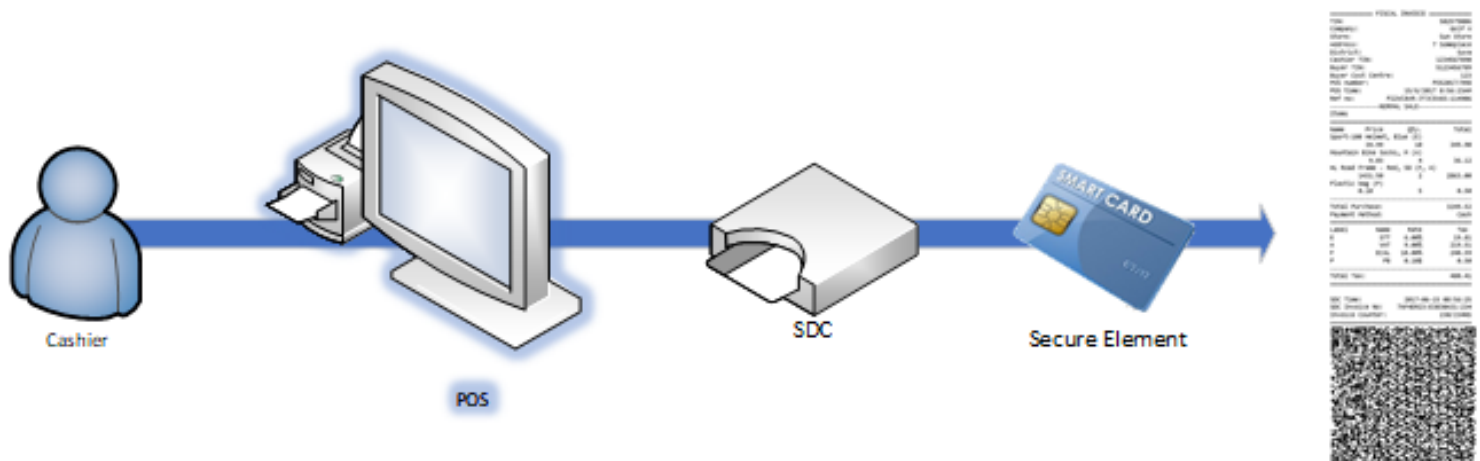
Electronic Fiscal Device (EFD) is composed of an Invoicing System (POS), an SDC and a Secure Element, all connected into one system. EFD produces fiscal receipts and reports Audit Data to a tax authority.

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

Each EFD consists of three logically separated components.

POS, SDC and Secure Element must communicate using protocols published as part of this documentation. Protocols are public and subject to change. Please familiarize yourself with [Versioning](#) and [End of Life](#) policies.

### POS (or Invoicing System)



Invoicing System or POS means a point-of-sale invoicing device or software which is used by a business for

- management control in the areas of sales analysis and stock control
- entering the transaction data for each transaction made by the business
- submitting the transaction data to an SDC service
- issuing fiscal invoices to customers after receiving the fiscalized data back from the SDC

Invoicing System or POS are provided by 3rd Party Vendors and are subject to accreditation.

### SDC



technical specification for E-SDC devices and is used to develop, test and accredit invoicing solutions.

Development ESDC is available to all registered vendors via the Developer Portal.

It simulates the operation of an ESDC on a local network in the production environment, so vendors can upgrade their applications or devices without obtaining any physical E-SDC device or smart card.

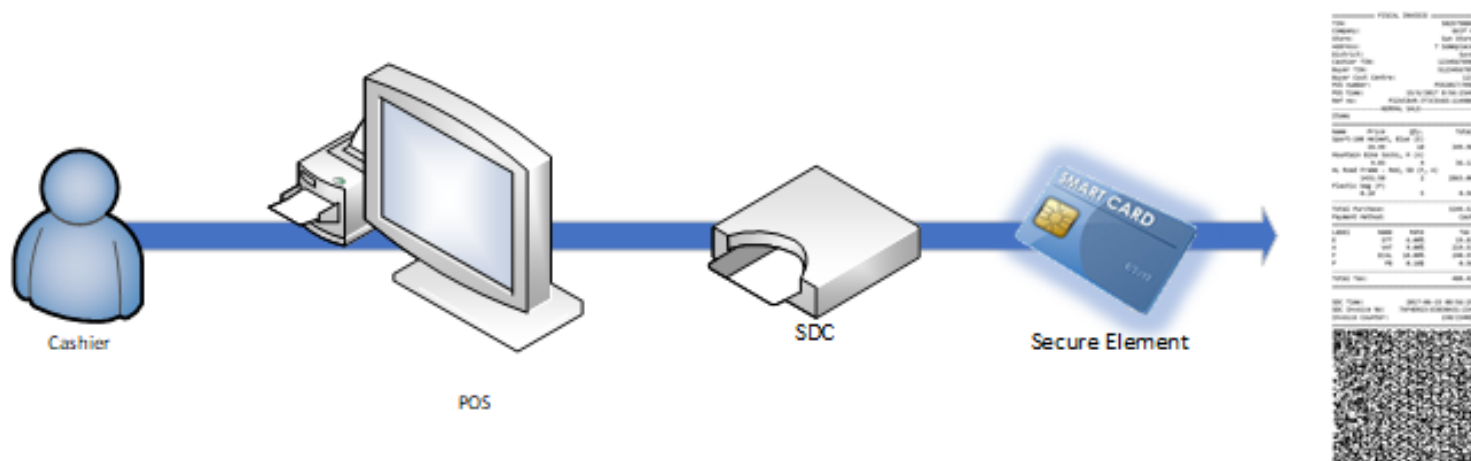
Development ESDC is also used during the accreditation process to check whether an invoicing system is functional.

## Secure Element

Secure Element (SE) means the software and hardware used by an EFD and the Authority to prevent tampering and unauthorized use of fiscal data transmitted to the Authority's system and to maintain the integrity of the fiscal data.

Secure Elements are provided to Taxpayers by Порецка управа Републике Српске. Authorized persons of Taxpayers may request additional secure elements via Taxpayer Admin Portal.

It may be implemented in various formats. Most common implementations are SmartCards and PKCS12 files.



## Building POS and E-SDC as one device or application

These are the accreditation conditions you need to be aware of if you are planning to develop an all-in-one POS + E-SDC solution:

- The solution must pass all the tests with the SDC Analyzer Win App during the accreditation process. It means that endpoints documented in [POS to SDC protocol](#) related to E-SDC must be accessible to external callers during accreditation.
- once accreditation is completed, the POS to SDC protocol may be omitted from final documentation and made inaccessible to external callers.

## What can you find in this documentation?

The documentation consists of a *Getting Started With Accreditation* article describing basic facts and steps related to accrediting a POS or E-SDC solution. There is also *General Information* section, common for all EFD vendors.

Finally, there are two separate sections with specific information for POS and E-SDC developers.

Please see below for lists of documentation sections according to vendor type.

## Sections for POS vendors

- [Getting Started With Accreditation](#)
- [General information](#)
- [For POS developers](#)

## Sections for E-SDC vendors

- [Getting Started With Accreditation](#)
- [General information](#)
- [For E-SDC developers](#)