

# Verify PIN

This service is used to verify a PIN entered by a cashier on a POS. Once the PIN is entered, it is validated using the Secure element on a smart card. The request is sent as plain text and the response is plain text (still application/json HTTP header must be provided).

If the command is successfully executed and the PIN is correct, E-SDC shall return "0100" and remember this PIN in its volatile memory (RAM) for all subsequent operations, until the smart card is removed from the reader or the E-SDC is switched off. Therefore there is no need for POS to send a PIN before every operation, only once it receives the response "0100".

However, if POS receives the error code "1500" during its regular operation, it must use this service again to provide a valid PIN (ask the user for the PIN or other way as per the POS internal policy). This case can be due to a card being removed, a card reader or E-SDC malfunctioning, etc.

In order to verify PIN, E-SDC invokes [Pin Verify](#) APDU command and passes PIN to the Secure element.

## Endpoint

SDC	Endpoint	Example
V-SDC	N/A	N/A
E-SDC	http://<ESDC_ip_address>:<ESDC_port>	http://192.168.88.112:8888/api/v3/p

## Method

POST

## Header

Add following HTTP headers to each request

- Accept: application/json
- Content-Type: application/json

## Authentication

### V-SDC

N/A

## E-SDC

E-SDC does not require client authentication.

## Request

String with PIN code sent from POS. PIN can contain only 4 ASCII digits 0-9.

## Example

1234

## Response Data

A string representation of one of the general [Status and Error Codes](#):

- "0100" - command executed successfully and PIN is correct for the inserted card;
- "2100" - PIN code is wrong for the inserted card. Secure element responded with 0x6302 or 0x6303;
- "2110" - The number of allowed PIN entries exceeded. The card is locked for further use and has to be returned to Tax Office. Secure element responded with 0x6310;
- "1300" - E-SDC detects that the smart card is not inserted (or E-SDC fails to connect to it due to card or card reader issues or some other internal malfunction);
- "2220" - E-SDC cannot connect to the Secure Element applet;
- ~~"2210" - Secure Element is locked due to the card limit set by the Tax Service. No additional invoices can be signed before the audit (local or remote) is completed;~~
- ~~"2230" - Secure Element does not support requested protocol version (reserved for later use);~~
- "2400" - SDC device is not fully configured for invoice signing (i.e. tax rates or verification URL are missing etc.)
- "2806" - If provided PIN is in invalid format, other than ASCII digits 0-9.
- "1999" - E-SDC could not verify PIN, but specific case reason is not determined by error codes. Field *message* may contain more description. Manufacturer can use manufacturer-specific codes to describe warning in more details.

For more information consult [Status and Error Codes](#) sections.

## Example

"0100"