

Secure Element Applet API

Communication with a Secure element Applet API is performed through standard APDU commands.

For a detailed description of APDU communication, APDU commands data structure and particular bytes meaning, please refer to ISO/IEC 7816-4 standard.

Commands are grouped into three categories based on the type of usage:

1. General
2. Fiscalization
3. Audit

Important Notes

1. All APDU commands are sent to the Smart Card using T1 communication protocol
2. All amounts or counter values are submitted to/received from the Secure element using Big-endian. Big-endian is an order in which the "big end" (most significant value in the sequence) is stored first (at the lowest storage address)
3. P1 and P2 values considered in the request processing when,
 1. Select Applet Command
 2. force using CRC for Data in APDU transimission
4. PIN is sent in ASCII hex format from SE applet version 3.2.2.
5. CRC is available from SE applet version 3.2.5, and it is optional to use.

Content

1.
[General Commands](#)
Secure Element Applet is installed as a non-default applet on a smart card. Before any APDU command is invoked, the applet is selected using the standard Select command.
2.
[Fiscalization](#)
PIN verification is a method that "unlocks" a card for invoice signing and other operations protected by PIN code. Depending on the SE applet version, PIN is sent in decimal or hex format with ASCII encoding, and it is sent as an array of byte digits.
3.
[Audit](#)
Returns 259 bytes data structure represents public card key (256 bytes modulus and 3 bytes exponent). This key is used to encrypt Audit packages.
4.
[Secure Element Specific APDU Error Codes](#)
This table contains the expected error codes and descriptions that a caller may encounter while working

with the Secure Element Applet.