

Mateusz Krusiński

LAB1

Serial : C3378173

Check byte: 06

Manufacturer data: 880400C847002000000015

8804 - electronic purse Fourth Way - Alpetour Fourth Way NW part of Sloven4 01.01.98 Automatic Fare Co  
Trgovina in Informatika d.o

### **ZAD 1**

Zinterpretować zawartość bloku 0

C337817306880400C847002000000015

jest to pierwszy blok danych pierwszego sektora. zawiera dane producenta IC. Ze względu na bezpieczeństwo i wymagania systemowe blok ten jest chroniony przed zapisem po zaprogramowaniu przez producenta IC podczas produkcji

Blok 1:

00000000000000000000000000000000

Blok 2:

00000000000000000000000000000000

Blok 1 i 2 przeznaczone są dla aplikacji dodatkowych

Blok 3:

000000000000008778FC1000000000000

### **ZAD 2**

**Serial 6c290d1f**

Blok 3 GPB - 69

Key B 000000000000

Key A FFFFFFFFFFFF

Acces Condition : FF078069

### **ZAD 3**

Blok 4

| Connected Readers                               |                                    | Reader Related Function  |  |  |               |
|---|------------------------------------|--|--|--|---------------|
| AKS VR 0  | Write Mifare Key To Reader         | Key Nr.  | Tr. Option   | En. Key Nr.                              | Key (A0A1...) |
| OMNIKEY CardMan 5x21 0                          |                                    | 00   | <input type="radio"/> Plain <input checked="" type="radio"/> Secured | 80                                       |               |
| OMNIKEY CardMan 5x21-CL                         |                                    |  |  |  |               |
| 3b8f8001804f0ca000000306030001000000006a        |                                    | 6c290d1f   |  | Mifare_Standard_1K                       |               |
| ATR   |                                    | UID  |  | Card Name                                |               |
| Mifare Functions using Sync API                 |                                    |  |  |  |               |
| Authenticate                                    | 4                                  | Access Option  |  | Authentication Mode                      |               |
|   | Block Nr                           | <input type="radio"/> Key Number <input checked="" type="radio"/> 6-byte Key | <input checked="" type="radio"/> Mode A <input type="radio"/> Mode B |  |               |
| Read  | 0000000000000000000000000000000044 |  | Write  | 0000000000000000000000000000000044       |               |
| Data Read                                       |                                    | Data to Write (16 bytes hex)   |  |  |               |
| Increment                                       | by                                 | Decrement  | by   | Write complete card and show performance |               |
| Value (4 bytes hex)                             |                                    | Value (4 bytes hex)  |  |  |               |
| ISO 7816 / iCLASS / PCSC 2.01 - APDUs           |                                    |  |  |  |               |
| Transmit  | 0                                  |  |  |  |               |
|   | # byte                             |  |  |  |               |
|   | 0                                  |  |  |  |               |
|   | # byte                             |  |  |  |               |
| Refresh Output Screen                           | Mifare Emulation                   | Last Operation Status  |  | Exit                                     |               |
|   |                                    | <input checked="" type="checkbox"/> Success                                  | <input type="checkbox"/> Error                                       |  |               |
| Currently executed operation took : 00:000 Sec  |                                    |  |  |  |               |
| The length of the data to be written must be 16 |                                    |  |  |  |               |
| Writing has been done successfully              |                                    |  |  |  |               |
| Currently executed operation took : 00:016 Sec  |                                    |  |  |  |               |
| Reading has been done successfully              |                                    |  |  |  |               |
| Currently executed operation took : 00:000 Sec  |                                    |  |  |  |               |

## Blok 5

[illegible]

## Blok 6

Omnikey CardMan 5121 Contact-Less Demo Application Programming

| Connected Readers  |  | Reader Related Function  |  |  |               |
|--|--|--|--|--|---------------|
| AKS VR 0   | Write Mifare Key To Reader               | Key Nr.  | Tr. Option   | En. Key Nr.  | Key (A0A1...) |
| OMNIKEY CardMan 5x21 0   |  | 00   | <input type="radio"/> Plain <input checked="" type="radio"/> Secured | 80   |               |
| OMNIKEY CardMan 5x21-CL  |  |  |  |  |               |
| 3b8f8001804f0ca000000306030001000000006a   |  | 6c290d1f   |  | Mifare_Standard_1K   |               |
| ATR  |  | UID  |  | Card Name  |               |
| Mifare Functions using Sync API  |  |  |  |  |               |
| Authenticate   | 6  | Access Option  |  | Authentication Mode  |               |
|  | Block Nr                                 | <input type="radio"/> Key Number <input checked="" type="radio"/> 6-byte Key |  | <input checked="" type="radio"/> Mode A <input type="radio"/> Mode B       |               |
|  |  |  |  | Read complete card and show performance                                    |               |
| Read   | 0000000000000000000000000000000000000066 |  | Write  | 0000000000000000000000000000000000000066                                   |               |
|  |  | Data Read  |  | Data to Write (16 bytes hex)   |               |
| Increment  | by                                       | Decrement  | by   |  |               |
| Value (4 bytes hex)  |  | Value (4 bytes hex)  |  | Write complete card and show performance                                   |               |
| ISO 7816 / iCLASS / PCSC 2.01 - APDUs  |  |  |  |  |               |
| Transmit   | 0  |  |  |  |               |
|  | # byte                                   |  |  |  |               |
|  | 0  |  |  |  |               |
|  | # byte                                   |  |  |  |               |
| Refresh Output Screen  |  | Mifare Emulation   |  | Last Operation Status  |               |
|  |  |  |  | <input checked="" type="checkbox"/> Success <input type="checkbox"/> Error |               |
|  |  |  |  | Exit   |               |
| Reading has been done successfully<br>Currently executed operation took : 00:016 Sec<br>Writing has been done successfully<br>Currently executed operation took : 00:015 Sec<br>Reading has been done successfully<br>Currently executed operation took : 00:000 Sec |  |  |  |  |               |

## Zad 4

Omnikey CardMan 5121 Contact-Less Demo Application Programming

**Connected Readers**

AKS VR 0  
OMNIKEY CardMan 5x21 0  
OMNIKEY CardMan 5x21-CL

**Reader Related Function**

Write Mifare Key To Reader Key Nr. 00 Tr. Option ☐ Plain ☒ Secured En. Key Nr. 80 Key (A0A1...)

3b8f8001804f0ca000000306030001000000006a 6c290d1f Mifare\_Standard\_1K

ATR UID Card Name

**Mifare Functions using Sync API**

**Authenticate** 4 Block Nr  Access Option ☐ Key Number ☒ 6-byte Key Authentication Mode ☒ Mode A ☐ Mode B Read complete card and show performance

**Read** 00000018FFFFFFE70000001810EF10EF **Write** 00000000FFFFFFF0000000010EF10EF


Data Read Data to Write (16 bytes hex)

**Increment** by 00000008 **Decrement** by  Value (4 bytes hex) Write complete card and show performance

**ISO 7816 / iCLASS / PCSC 2.01 - APDUs**

**Transmit** 0 # byte  0 # byte

**Last Operation Status**

Refresh Output Screen Mifare Emulation ☒ Success ☐ Error  Exit

Reading has been done successfully  
Currently executed operation took : 00:016 Sec  
Increment value has been done successfully  
Currently executed operation took : 00:031 Sec  
Reading has been done successfully  
Currently executed operation took : 00:015 Sec