

OpenSC -

- 1
 - 1.1 [OpenSC](#)
- 2 [Opensc-tool](#)
 - 2.1
 - 2.2
- 3 [Opensc-explorer](#)

 :

- Astra Linux Special Edition .10015-01 (1.7), .10015-10
- Astra Linux Special Edition .10015-17
- Astra Linux Special Edition .10015-37 (7.7)
- Astra Linux Special Edition .10152-02 (4.7)
- Astra Linux Special Edition .10015-01 (1.6) [20211126SE16 \(10\)](#)
- Astra Linux Special Edition .10265-01 (8.1) [20211019SE81](#)
- Astra Linux Common Edition 2.12.45

OpenSC (opensc) — (-), .

 , , JaCarta.

OpenSC

opensc :

```
sudo apt install opensc
```

Opensc-tool

, :

```
opensc-tool --name --atr --serial
```

```
Using reader with a card: Aktiv Co. Rutoken S 00 00
3b:6f:00:ff:00:56:72:73:54:ff:6b:6e:73:30:20:00:00:90:00
Rutoken S card
```

, :

```
opensc-tool --list-files
```

:

Opensc-explorer

opensc-explorer :

opensc-explorer

info:

info 3F00

Dedicated File ID 3F00

```
File path:      3F00$ opensc-tool --list-files File size:      0 bytes
ACL for SELECT:      NONE
ACL for LOCK:        N/A
ACL for DELETE:      NEVR
ACL for CREATE:      CHV2
ACL for REHABILITATE: N/A
ACL for INVALIDATE:  N/A
ACL for LIST FILES:  NONE
ACL for CRYPTO:      N/A
ACL for DELETE SELF: N/A
Security attributes: 47 02 02 01 00 00 00 FF 00 00 00 00 00 00 00
```



- 3F00 - id

//.

8888/1F00 :

test.bin :

```
dd if=/dev/urandom of=test.bin bs=1024 count=1
```

1+0

1+0 1024 (1,0 kB), 0,000283354 c, 3,6 MB/c

:

opensc-explorer

```
OpenSC [3F00]> mkdir 8888 256
```

```
OpenSC [3F00]> cd 8888
```

```
OpenSC [3F00/8888]> create 1F00 1024
```

```
OpenSC [3F00/8888]> put 1F00 test.bin
Total of 1024 bytes written.
```

```
OpenSC [3F00/8888]> info 1F00
```

Elementary File ID 1F00

File path: 3F00/8888/1F00

File size: 1024 bytes

```
EF structure: Transparent
ACL for READ: N/A
ACL for UPDATE: N/A
ACL for DELETE: N/A
ACL for WRITE: N/A
ACL for REHABILITATE: N/A
ACL for INVALIDATE: N/A
ACL for LIST FILES: N/A
ACL for CRYPTO: N/A
```

```
OpenSC [3F00/8888]> get 1F00 check.bin
Total of 1024 bytes read from 1F00 and saved to check.bin.
```

```
OpenSC [3F00/8888]> rm 1F00
```

```
OpenSC [3F00/8888]> cd ..
```

```
OpenSC [3F00]> rm 8888
```

, test.bin check.bin :

```
md5sum test.bin check.bin
```

..:

1. SmartCardHSM: <https://github.com/OpenSC/OpenSC/wiki/SmartCardHSM>
2. OpenSC GUI: <https://github.com/tis-innovation-park/OpenSC-GUI/wiki>