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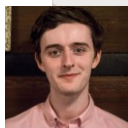
Invalid Checksum

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7. September 2020 at 16:09

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Joel Russell

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I am attempting to read data from a Desfire EV1 using TapLinX 1.7.

The cards have one application with multiple files and 3DES encryption.

I call (we say for example that file 2 has 8 bytes):

```
`  
objDESFireEV1.authenticate(keyNo, IDESFireEV1.AuthType.Native, KeyType.THREEDES, kd);  
byte[] data = objDESFireEV1.readData(3,0,10, IDESFireEV1.CommunicationType.Enciphered, 10);  
String stringData = Utilities.bytesToString(data);  
Log.d(TAG, "Bytes as string: " + stringData);  
`
```

Whenever I go to read the card I get SecurityException: Invalid Checksum

The authentication is clearly working in some sense because if I change the key, I get 'Authentication error'

Even stranger, if I switch to AuthType.ISO, I get returned bytes, but they are different and random every time! Does anyone know why this could happen?

Many thanks

+0 | -0

7. September 2020 at 16:14

Re: Invalid Checksum

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Hi Joel,

I must test this code snippet on my Android device. Please give me one more day.

By the way: why do you use 3DES cipher? Do you must be compatible with an existing project? I recommend using only AES cipher as most secure cipher. All DES implementations are for backward compatibility.

The TapLinx team

+0 | -0

16. September 2020 at 11:15

Re: Invalid Checksum

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Sorry for the delay, but we all are very busy at the moment.

The authentication was also ask in previous posts. In the answers you will find code snippets and this might help you.

Please check this links:

<https://www.mifare.net/support/forum/topic/authentication-error-with-taplinx-1-3-and-1-4-but-ok-with-taplinx-1-2/#post-30886>

<https://www.mifare.net/support/forum/topic/desfireev1-changekey-fail/#post-21296>

<https://www.mifare.net/support/forum/topic/desfire-ev1-cant-change-key-back-to-default/#post-22645>

The TapLinX team

+0 | -0

22. April 2021 at 19:15

Re: Invalid Checksum

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dexter



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anything. My test code is tiny, I am using taplinx 1.8, I created an application with 5 keys, and I created a file of enciphered mode and then `writeData` into the file. Now, TagInfo can show the encrypted bytes. But my test app using taplinx cannot read these bytes and I instead get `invalid checksum` after when doing `readData()`.

[+0](#) | [-0](#)

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Tags:

3DES, checksum, ev1



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