

LICENSE VERIFICATION SYSTEM

PROBLEM STATEMENT

This project has to do with verifying a document such as a “driver’s license”. A police officer looks at the physical driver’s license card and simply assumes that the license, together with the information it contains, was issued by the “transport authority”.

Given that it is not so difficult to copy, alter or produce afresh a plastic card, how can one use technology to verify on the go the veracity of a driver license card, when shown to a police officer on the road or elsewhere.

INTRODUCTION

Suppose police wants to verify driver's license shown by him on the road. He will confirm the veracity from a central server by requesting the license id. He will check for :-

1. Expiry of license
2. Tampering of license
3. Replay attack by the server

For this purpose, digital signatures are used by the server to provide message integrity and authentication.

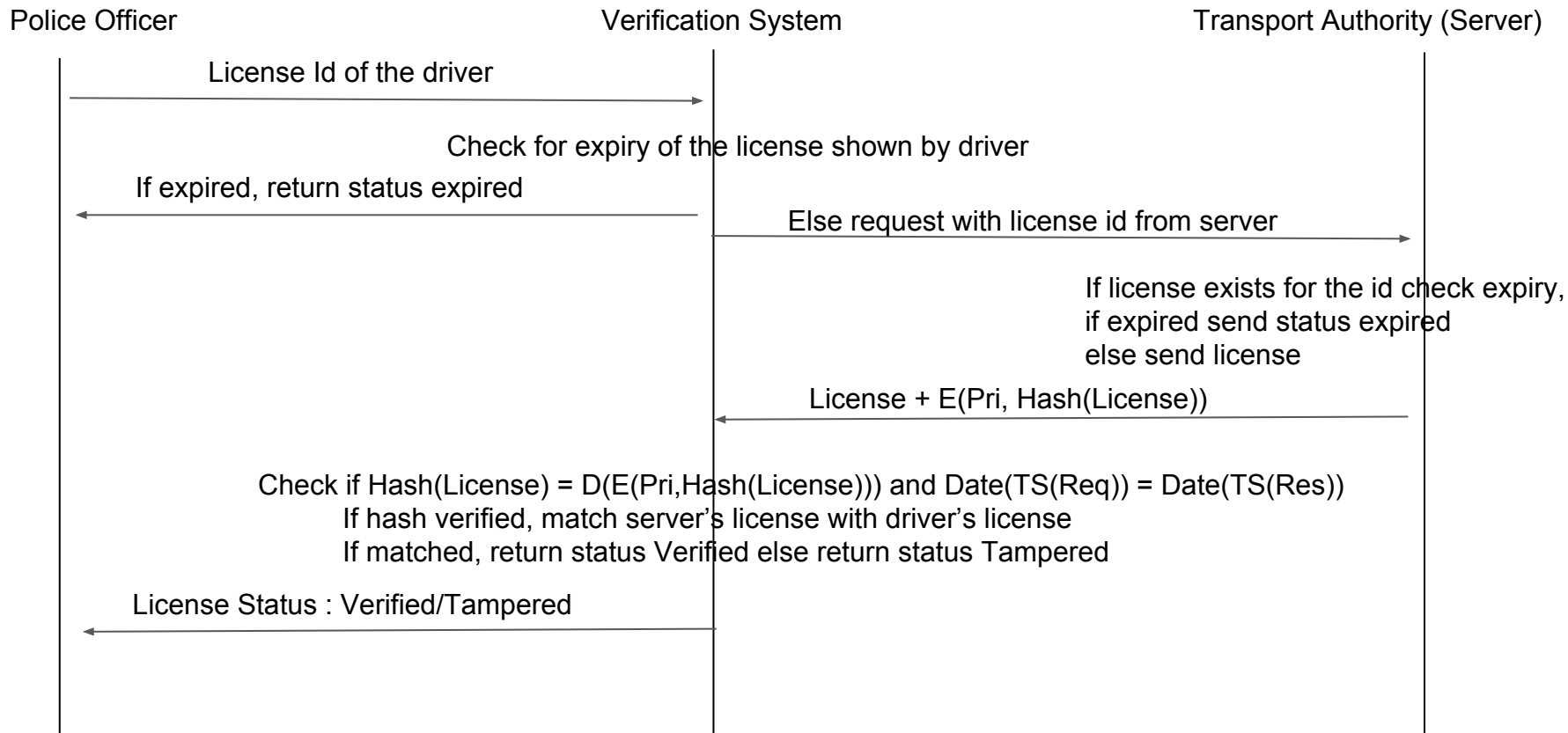
SYSTEM SPECIFICATION

Language used : Python

Assumptions

1. There is a central server having a repository of all the license documents of all the drivers.
2. Police has access to system used for verification of physical license.

SYSTEM DESIGN



IMPLEMENTATION

Case 1. License shown by driver is expired.

```
meh@meh-Len:~/Documents/nss/ass3$ python client.py
WELCOME TO ID VERIFICATION SYSTEM !!
Press q to quit.
Please enter your id number : 541232
License has expired !!
```

Case 2. License shown by driver is correct.

```
Please enter your id number : 543322
```

```
Response sent by Server:
```

```
Id : 543322
```

```
Name : Anant
```

```
Expiry Date :20-12-2020
```

```
License produced by driver:
```

```
Id : 543322
```

```
Name : Anant
```

```
Expiry Date :20-12-2020
```

```
License verified !!
```

Case 3. License is found expired at server end.

```
Please enter your id number : 551123
Response sent by Server:
License has expired (on server side)!!
License produced by driver:
Id : 551123
Name : Mannat
Expiry Date :04-01-2020

License tampering found !!
```


Case 4. License is found tampered.

```
Please enter your id number : 543211
Response sent by Server:
Id : 543211
Name : Sunandha
Expiry Date :05-03-2020

License produced by driver:
Id : 543211
Name : Sunandha
Expiry Date :05-03-2021

License tampering found !!
543211
```

THANKYOU

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