Java Messaging Service (JMS) Agreement between P1 Receive Images and P2 Image Recognition

Figure 1 - Message Diagram

Queue Name:

p1ReceiveImages for P1 to post messages to and for P2 to receive messages from.

JMS Message:

Should contain the below JSON object definition.

JSON Object Definition

```json
{
    "uuid": "123e4567-e89b-12d3-a456-556642440000",
    "camera": 1,
    "timestamp": "2020.11.03.06.43.19",
    "numberplate": "",
    "photo": "/9j/4S/WRXhpZgAASUkqAAgAAAAJAA8BAgAQAAAAegAAABABAgAdAAAAigAAABIB
AwABAAAAAQAAABoBBQABAAAApwAAABsBBQABAAAArwAAACgBAwABAAAAAgAAADIBAgAVAAAAtwAAAB
MCAwABAAAAAQAAAGm..."
}
```

Definition

UUID: is the universal unique identifier for the image in the database created by P1.

Camera: is the camera ID

Timestamp: is the timestamp of the image taken. It is in a format that can be parsed separated by full stops. (yyyy.MM.dd.HH.mm.ss)

Numberplate: will be the recognised numberplate.

Photo: is the base64 encoded image.

Object Serialisation and deserialization:

Will be done using JSON in Java. (https://github.com/stleary/JSON-java)

Image Format:

Should be sent as Base64/JPG image.

Base64 Conversion:

The JSON image string should be able to be decoded with the base64 Java utility.
(https://docs.oracle.com/javase/8/docs/api/java/util/Base64.html)