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

{

    "uuid": "123e4567-e89b-12d3-a456-556642440000",

    "camera": 1,

    "timestamp": "2020.11.03.06.43.19",

    "numberplate": "",

    "photo": "/9j/4S/WRXhpZgAASUkqAAgAAAAJAA8BAgAQAAAAegAAABABAgAdAAAAigAAABIBAwABAAAAAQAAABoBBQABAAAApwAAABsBBQABAAAArwAAACgBAwABAAAAAgAAADIBAgAVAAAAtwAAABMCAwABAAAAAQAAAGm..."

}

**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>)

Java Messaging Service (JMS) Agreement between P2 Image Recognition and P3 Reconcile Charging Exit

# Queue Name:

p2imagerecognition for P2 to post messages to and for P3 to receive messages from.

# JMS Message:

Should contain the below JSON object definition.

# JSON Object Definition

{

    "uuid": "123e4567-e89b-12d3-a456-556642440000",

    "camera": 1,

    "timestamp": "2020.11.03.06.43.19",

    "numberplate": "PP587AO",

    "photo": ""

}

**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)