

## 1. GENERAL INFORMATION

Company Intenda Net d.o.o. is implementing "inITS" project, in accordance with the project application submitted for the Call for Proposals "*Increasing the development of new products and services that derives from R&D activities*" (ref.: KK.01.2.1.01.) which is approved for funding under the Grant Agreement number: KK.01.2.1.01.0055 implemented by the Croatian Small Business, Innovation and Investment Agency; HAMAG BICRO and the Ministry of Economy, Entrepreneurship and Crafts.

**The project is co-financed by the European Regional Development Fund under the Operational Program Competitiveness and Cohesion 2014 - 2020.**

The project involves industrial research and experimental development of the inITS system within the priority area of Transport and Mobility, a sub thematic priority area Ecologically Acceptable Transport Solutions, i.e. Intelligent Transport Systems and Logistics. The inITS system is future traffic solution software that will change the approach and trend of traffic science and transportation technology of people and goods.

The total value of the project is HRK 13.258.569,35 eligible costs amount to HRK 12.634.149,03 and the expected aid is HRK 7.485.289,00. The estimated duration of the project is 48 months.

## 2. TECHNICAL DESCRIPTION

**The subject-matter of procurement: The purchase of programming services.**

**Procurement number: 09/2020**

**Group 1: Programming services for inITS BACKEND**

**Each described below iteration of development shell include research and solution analysis, development and testing.**

### 2.1. INTRODUCTION

This document defines specification "MSRP service for customer application" that the vendor needs to develop on **nodejs** technology.

Use cases:

- Customer app (backend) – trip service
- Customer app (backend) – credit card payment service
- Customer app (backend) – vehicle position service
- Customer app (backend) – trip status service
- Customer app (backend) – combination service (planning)
- Customer app (backend) – tariff service

## 2.2. USE CASES

### 2.2.1 CUSTOMER APP (BACKEND) – TRIP SERVICE

The service must be able to accept the request from the customer application for the new account and forward it to the inITS external account service. In doing so, it must verify the requirements of the organization, such as mandatory fields, that are defined in the administration.

These are the fields:

- Destination address
- minimum purchase time
- Types of traffic that are allowed for use depending on addresses
- allowed tariffs
- Payment types

If the request for the order meets the requirements of the minimum fields, it is sent to the inITS service "external trip booking" with the parameters:

```
{
  "externalTripId": "12345",
  "tripData": {
    "pickupEvent": {
      "eventUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
      "eventLocation": {
        "locationName": "Mc Donalds",
        "streetName": "1th Street",
        "streetHouseNumber": "50",
        "streetHouseNumberAddition": "A",
        "postCode": "1234ZZ",
        "cityName": "Gotham City",
        "countryCode": "nl",
        "countryName": "Netherlands",
        "gps": {
          "lat": 47.7777,
          "lon": 15.1111
        }
      }
    },
    "note": "Next to McDonalds"
```

```

},
"pickupEventDateTime": "2020-03-24T09:11:30.558Z",
"viaEvents": [
  {
    "eventUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "eventLocation": {
      "locationName": "Mc Donalds",
      "streetName": "1th Street",
      "streetHouseNumber": "50",
      "streetHouseNumberAddition": "A",
      "postCode": "1234ZZ",
      "cityName": "Gotham City",
      "countryCode": "nl",
      "countryName": "Netherlands",
      "gps": {
        "lat": 47.7777,
        "lon": 15.1111
      }
    },
    "note": "Next to McDonalds"
  }
],
"dropoffEvent": {
  "eventUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "eventLocation": {
    "locationName": "Mc Donalds",
    "streetName": "1th Street",
    "streetHouseNumber": "50",
    "streetHouseNumberAddition": "A",
    "postCode": "1234ZZ",
    "cityName": "Gotham City",
    "countryCode": "nl",
    "countryName": "Netherlands",
    "gps": {
      "lat": 47.7777,
      "lon": 15.1111
    }
  }
}

```

```

    }
  },
  "note": "Next to McDonalds"
},
"dropoffEventDateTime": "2020-03-24T09:11:30.558Z",
"transportObjects": [
  {
    "transportObjectName": "PERSON",
    "quantity": 1
  }
],
"noteForDriver": "Woman in red dress :)",
"noteForDispatcher": "REF:93949348",
"vehicleTypes": [
  "CAR"
],
"vehicleCategoryTags": [
  "VCT1"
],
"tags": [
  "TAG1"
]
},
"customer": {
  "name": "John",
  "surname": "Doe",
  "phoneNumber": "+385981234567",
  "email": "john.doe@mail.com",
  "referenceNumber": "23123123",
  "customerNumber": "NL1234"
},
"passenger": {
  "name": "John",
  "surname": "Doe",
  "phoneNumber": "+385981234567",
  "email": "john.doe@mail.com",

```

```

    "referenceNumber": "23123123"
  },
  "tariff": {
    "tariffUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "amountCents": 5000,
    "paymentType": "CASH",
    "route": {
      "distanceInMeters": "1000",
      "timeInSeconds": "400",
      "polylineGeometry": "_p~iF~ps|U_ulLnnqC_mqNvxq`@"
    },
    "paymentExtras": [
      {
        "paymentExtraName": "WAYPOINT",
        "quantity": 1
      }
    ],
    "paymentDiscounts": [
      "PD1"
    ],
    "isFixPriceTariff": true,
    "currencyISOCode": 5000,
    "vat": 600,
    "description": "arbitrary text"
  },
  "tripAdditionalInfo": {
    "flightNumber": "KL678",
    "flightTime": "11:00",
    "flightDestination": "AMSTERDAM",
    "roomNumber": "112"
  },
  "returnForExternalTripId": "12345"
}

```

Here are the answers of the inITS External trip booking service:

Code	Description
200	<p>trip created</p> <p><b>Example Value</b> Model</p> <pre>{   "tripId": {     "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",     "tripDisplayCode": "180002345",     "externalTripId": "12345"   },   "responseCode": "OK" }</pre>
400	<p>invalid input, object invalid</p> <p><b>Example Value</b> Model</p> <pre>{   "name": "string",   "detail": "string" }</pre>
403	<p>not authenticated</p> <p><b>Example Value</b> Model</p> <pre>{   "name": "string",   "detail": "string" }</pre>
500	<p>internal error</p> <p><b>Example Value</b> Model</p> <pre>{</pre>

**Code****Description**

```
"name": "string",  
  "detail": "string"  
}
```

## 2.2.2 CUSTOMER APP (BACKEND) – CREDIT CARD PAYMENT SERVICE

The service creates a new profile and does the tokenization.

Profile creation:

create config request

- Example Value
- Model

```
{  
  "organizationUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",  
  "data": {  
    "displayName": "TEST1 Corvus",  
    "paymentGatewayType": "CORVUS",  
    "paymentGatewayCorvus": {  
      "test": true,  
      "timeout": 60000,  
      "storeId": 3011,  
      "key": "1NsuoUae123SmDXHn10Mj8o54wVxA8m8fQ",  
      "keystoreFilename": "/etc/config/ekotaxi_test_24052018.p12",  
      "keystorePassword": 1234  
    },  
    "paymentGatewayMSP": {  
      "test": true,  
      "timeout": 60000,  
      "accountId": 90142098,  
      "apiKey": "ceb52ed3475534654340ac46599a36d655ef7292"  
    },  
    "tokenizationConfig": {  
      "amount": 100,  
      "currencyISOCode": "EUR",  

```

```

    "redirectBaseUrl": "https://msrptest.intaxisolutions.com",
    "timeoutIntervalSeconds": 300,
    "localizedDescriptions": [
      {
        "languageISOCode": "en",
        "description": "inTaxi credit card registration for subsequent trip payment"
      }
    ],
    "redirectResponseHtml": "<html><body>Thank you!</body></html>",
    "redirectResponseRedirectUri": "customuri://"
  },
  "purchaseDeclinedConfig": {
    "retryStartAfterDays": 1,
    "retryNextDayExponent": 1.5,
    "retryDaysLimit": 60,
    "retryMaxNumberOfResends": 60,
    "retryReuseInitialTransactionId": 60
  },
  "purchaseConfig": {
    "minAmountForPurchase": 100,
    "localizedDescriptions": [
      {
        "languageISOCode": "en",
        "description": "inTaxi credit card registration for subsequent trip payment"
      }
    ]
  },
  "timeZoneId": "Europe/Amsterdam"
}

```

Tokenization:

Crequest

- **Example Value**
- Model

```
{
  "onlineCreditCardUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",
  "creditCardData": {
    "customer": {
      "customerUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",
      "customerIdentification": "92834jff0jwieor09jr",
      "languageISOCode": "nl"
    },
    "onlinePaymentConfigUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",
    "paymentType": "VISA"
  },
  "tokenizationData": {
    "maskedPan": 1111,
    "token": 4444,
    "validTill": "2020-03-24T09:35:14.643Z"
  }
}
```

Credit card tokenization start request

- **Example Value**
- **Model**

```
{
  "customerUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",
  "customerIdentification": "92834jff0jwieor09jr",
  "customer": {
    "name": "John",
    "surname": "Doe",
    "addressStreet": "Sheffieldstraat 21",
    "addressCity": "Rotterdam",
    "addressPostCode": "3047AN",
    "addressCountry": "Netherlands",
    "phone": 385663322114,
    "email": "john.doe@test.com"
  },
  "onlinePaymentConfigUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694",
  "paymentType": "VISA",
  "languageISOCode": "en"
}
```

Transaction:

transaction data

**Example Value**  
Model

```
{
  "status": "IN_PROCESS",
  "purchaseStartData": {
    "amount": 2000,
    "currencyISOCODE": "EUR",
    "retryOnDecline": true,
    "differentOnlinePaymentConfigUid": "cd9a285a-f8a7-4c4a-b296-e86d58636694"
  },
  "purchaseResponseData": {
    "approvalCode": "AC394930",
    "referenceNumber": "REF11111"
  },
  "declineReason": "INSUFFICIENT_FUNDS",
  "declineReasonDescription": "description"
}
```

### 2.2.3 CUSTOMER APP (BACKEND) – VEHICLE POSITION SERVICE

Service is a proxy between inITS microservice

[/fleet\\_vehiclelocations/{organizationUid}](#)

and a user application that displays free traffic. This is a call:

[/fleet\\_vehiclelocations/{organizationUid}](#)

get per vehicle or get all by organization if vehicles not defined

- **Example Value**
- Model

```
{
  "vehicles": [
    "d290f1ee-6c54-4b01-90e6-d701748f0851"
  ],
  "shifts": [
```

```

    "d290f1ee-6c54-4b01-90e6-d701748f0851"
  ],
  "fleets": [
    "d290f1ee-6c54-4b01-90e6-d701748f0851"
  ],
  "alive": false
}

```

Here is the server response:

vehicles location retrieved

- Example Value
- Model

```

{
  "vehicles": [
    {
      "organizationUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
      "vehicleUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
      "vehicle": {
        "vehicleUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "displayName": "VEHICLE1",
        "vehicleTags": [
          {
            "tagUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
            "displayName": "TAG1"
          }
        ],
        "vehicleType": {
          "vehicleTypeUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
          "displayName": "Bus",
          "baseIcon": "icon"
        },
        "fleetUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "vehicleSkillTags": [
          {
            "tagUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",

```

```

        "displayName": "TAG1",
        "validFromDate": "2017-05-03",
        "validToDate": "2017-05-03"
    }
]
},
"shift": {
    "shiftUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "driver": {
        "driverUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "name": "Name",
        "surname": "Surname",
        "ssn": "34234234234",
        "phoneNumber": "134234234",
        "driverSkills": [
            {
                "driverSkillUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
                "displayName": "SKILL1"
            }
        ],
        "driverTags": [
            {
                "tagUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
                "displayName": "TAG1"
            }
        ]
    },
    "devices": [
        {
            "deviceUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
            "deviceType": "DRIVER_APP"
        }
    ],
    "transportServices": [
        {
            "transportServiceUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",

```

```

        "displayName": "TS1"
    }
],
"fleet": {
    "fleetUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "displayName": "TS1"
},
"validTill": "2020-03-24T09:31:06.130Z",
"openedFrom": "2020-03-24T09:31:06.130Z"
},
"trips": [
    {
        "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851"
    }
],
"geofences": [
    {
        "vehicleDispatchGeofenceUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "position": 1,
        "addedDateTime": "2020-03-24T09:31:06.130Z"
    }
],
"breakInfo": {
    "breakStartDatetime": "2020-03-24T09:31:06.130Z"
},
"driverSuspensions": [
    {
        "suspensionUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "suspensionType": "AUTOMATIC_TRIP",
        "reasonType": "AUTOMATIC_TRIP_OFFERED_VIA_DISPATCH_DECLINED",
        "affectType": "REMOVE_FROM_VEHICLE_DISPATCH_GEOFENCING",
        "durationLeftMinutes": 1,
        "suspensionStartDatetime": "2020-03-24T09:31:06.130Z",
        "suspensionExpectedEndDatetime": "2020-03-24T09:31:06.130Z",
        "driverNote": "Driver note",
        "internalNote": "Internal note",
    }
]

```

```

    "trips": [
      {
        "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "tripDisplayCode": 1,
        "declineDatetime": "2020-03-24T09:31:06.130Z"
      }
    ],
    "active": true,
    "endDriverNote": "Driver suspension end note",
    "endInternalNote": "Internal suspension end note"
  }
],
"status": "UNDEFINED",
"location": {
  "latitude": 45.8123402,
  "longitude": 15.9633434,
  "bearing": 1,
  "velocity": 3,
  "gpsFix": "NO_FIX",
  "gpsAccuracy": 1,
  "timestamp": "2017-09-06T16:06:49.847Z"
}
},
],
"responseType": "ALL",
"tripDispatchModes": [
  {
    "transportServiceGroupUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "fleetUids": [
      "d290f1ee-6c54-4b01-90e6-d701748f0851"
    ],
    "tripDispatchModeUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "displayName": "Default dispatch mode",
    "description": "Default dispatch mode"
  }
]

```

```
}
```

This response is sent to the user application.

#### 2.2.4 CUSTOMER APP (BACKEND) – TRIP STATUS SERVICE

The service implements a webhook that changes the status of a particular account and forwards it to the user application via a push mechanism.

Webhooks:

[/trip\\_booking\\_webhook/canceled](#)

event information

##### Example Value

Model

```
{
  "tripId": {
    "tripUId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "tripDisplayCode": "180002345",
    "externalTripId": "12345"
  },
  "timestamp": "2020-03-24T09:19:13.625Z",
  "note": "My note",
  "cancelByType": "API",
  "paymentType": "CASH"
}
```

[/trip\\_booking\\_webhook/updated](#)

event information

- Example Value
- Model

```
{
  "tripId": {
    "tripUId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "tripDisplayCode": "180002345",
    "externalTripId": "12345"
  },
  "timestamp": "2020-03-24T09:20:11.365Z",
  "tripData": {
```

```

"pickupEvent": {
  "eventId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "eventLocation": {
    "locationName": "Mc Donalds",
    "streetName": "1th Street",
    "streetHouseNumber": "50",
    "streetHouseNumberAddition": "A",
    "postCode": "1234ZZ",
    "cityName": "Gotham City",
    "countryCode": "nl",
    "countryName": "Netherlands",
    "gps": {
      "lat": 47.7777,
      "lon": 15.1111
    }
  },
  "note": "Next to McDonalds"
},
"pickupEventDateTime": "2020-03-24T09:20:11.365Z",
"viaEvents": [
  {
    "eventId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "eventLocation": {
      "locationName": "Mc Donalds",
      "streetName": "1th Street",
      "streetHouseNumber": "50",
      "streetHouseNumberAddition": "A",
      "postCode": "1234ZZ",
      "cityName": "Gotham City",
      "countryCode": "nl",
      "countryName": "Netherlands",
      "gps": {
        "lat": 47.7777,
        "lon": 15.1111
      }
    }
  },

```

```

        "note": "Next to McDonalds"
    }
],
"dropoffEvent": {
    "eventUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "eventLocation": {
        "locationName": "Mc Donalds",
        "streetName": "1th Street",
        "streetHouseNumber": "50",
        "streetHouseNumberAddition": "A",
        "postCode": "1234ZZ",
        "cityName": "Gotham City",
        "countryCode": "nl",
        "countryName": "Netherlands",
        "gps": {
            "lat": 47.7777,
            "lon": 15.1111
        }
    },
    "note": "Next to McDonalds"
},
"dropoffEventDateTime": "2020-03-24T09:20:11.365Z",
"transportObjects": [
    {
        "transportObjectName": "PERSON",
        "quantity": 1
    }
],
"noteForDriver": "Woman in red dress :)",
"noteForDispatcher": "REF:93949348",
"vehicleTypes": [
    "CAR"
],
"vehicleCategoryTags": [
    "VCT1"
],

```

```

    "tags": [
      "TAG1"
    ]
  },
  "customer": {
    "name": "John",
    "surname": "Doe",
    "phoneNumber": "+385981234567",
    "email": "john.doe@mail.com",
    "referenceNumber": "23123123",
    "customerNumber": "NL1234"
  },
  "passenger": {
    "name": "John",
    "surname": "Doe",
    "phoneNumber": "+385981234567",
    "email": "john.doe@mail.com",
    "referenceNumber": "23123123"
  },
  "tariff": {
    "tariffUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "amountCents": 5000,
    "paymentType": "CASH",
    "route": {
      "distanceInMeters": "1000",
      "timeInSeconds": "400",
      "polylineGeometry": "_p~iF~ps|U_ulLnnqC_mqNvxq`@"
    }
  },
  "paymentExtras": [
    {
      "paymentExtraName": "WAYPOINT",
      "quantity": 1
    }
  ],
  "paymentDiscounts": [
    "PD1"
  ]
}

```

```

    ],
    "isFixPriceTariff": true,
    "currencyISOCODE": "5000",
    "vat": "600",
    "description": "arbitrary text"
  },
  "updateByType": "API",
  "tripAdditionalInfo": {
    "flightNumber": "KL678",
    "flightTime": "11:00",
    "flightDestination": "AMSTERDAM",
    "roomNumber": "112"
  }
}

```

[/trip\\_booking\\_webhook/accepted](#)

event information

- **Example Value**
- Model

```

{
  "tripId": {
    "tripUId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "tripDisplayCode": "180002345",
    "externalTripId": "12345"
  },
  "timestamp": "2020-03-24T09:21:00.445Z",
  "vehicle": {
    "vehicleUId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "displayName": "Vehicle 1",
    "licensePlate": "ZG-4760-FK",
    "fleetUId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "model": "VW",
    "pictureUrl": "http://mysite.com/vehicle1.jpg"
  },
  "vehicleGps": {
    "lat": 47.7777,

```

```

    "lon": 15.1111,
    "bearing": 1.3
  },
  "driver": {
    "driverUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "name": "John",
    "surname": "John",
    "phoneNumber": "+385981234567",
    "ssn": "4238742938749",
    "pictureUrl": "http://site.com/driver1.jpg"
  }
}

```

[/trip\\_booking\\_webhook/started](#)

event information

- **Example Value**
- **Model**

```

{
  "tripId": {
    "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "tripDisplayCode": "180002345",
    "externalTripId": "12345"
  },
  "timestamp": "2020-03-24T09:21:41.743Z",
  "vehicle": {
    "vehicleUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "displayName": "Vehicle 1",
    "licensePlate": "ZG-4760-FK",
    "fleetUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "model": "VW",
    "pictureUrl": "http://mysite.com/vehicle1.jpg"
  },
  "vehicleGps": {
    "lat": 47.7777,
    "lon": 15.1111,
    "bearing": 1.3
  },
  "driver": {

```

```

    "driverUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "name": "John",
    "surname": "John",
    "phoneNumber": "+385981234567",
    "ssn": "4238742938749",
    "pictureUrl": "http://site.com/driver1.jpg"
  }
}

```

[/trip\\_booking\\_webhook/ended](#)

event information

- **Example Value**
- Model

```

{
  "tripId": {
    "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "tripDisplayCode": "180002345",
    "externalTripId": "12345"
  },
  "timestamp": "2020-03-24T09:22:11.388Z"
}

```

## 2.2.5 CUSTOMER APP (BACKEND) – COMBINATION SERVICE (PLANNING)

The service works the combinations and returns them to the user application. This is a planning call:

planning trip data used to create planning trip

- **Example Value**
- Model

```

{
  "tripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "productUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "data": {
    "events": [
      {
        "eventUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "eventType": "PICKUP",

```

```

    "eventLocation": {
      "locationName": "Pivnica Medvegrad",
      "streetName": "Ilica",
      "streetHouseNumber": "50",
      "streetHouseNumberAddition": "A",
      "postCode": "10000",
      "cityName": "Zagreb",
      "countryCode": "hr",
      "countryName": "Hrvatska",
      "gps": {
        "lat": 47.7777,
        "lon": 15.1111
      },
      "note": "This is location message"
    },
    "eventTime": {
      "arrivalDatetime": "2017-05-03T08:30:47.360Z",
      "earlyArrivalDatetime": "2017-05-03T08:15:47.360Z",
      "lateArrivalDatetime": "2017-05-03T08:45:47.360Z"
    },
    "customer": {
      "customerUid": "d290flee-6c54-4b01-90e6-d701748f0851",
      "customerIdentificationCode": "bni34g"
    },
    "tripEventAdditionalInfo": {
      "contactPhoneNumber": "+385981234567",
      "contactEmail": "john.doe@company.com",
      "contactPerson": "John Doe",
      "referenceNumber": "12345"
    },
    "note": "This is event message"
  }
],
"tariff": {
  "tariffUid": "d290flee-6c54-4b01-90e6-d701748f0851",
  "pricePlanUid": "d290flee-6c54-4b01-90e6-d701748f0851",
  "customerFixAmountCents": 5000,
  "userProvidedCustomerFixAmountCents": 4500,
  "tariffPaymentType": "TRIP_TARIFF_PAYMENT_TYPE_CASH",
  "paymentExtras": [
    {

```

```

        "paymentExtraUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "quantity": 1,
        "amount": 1000,
        "unchangeable": true,
        "amountTotal": 1000
    }
],
"paymentDiscounts": [
    {
        "paymentDiscountUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "amount": 1000,
        "percentage": 10,
        "unchangeable": true,
        "quantity": 1,
        "amountTotal": 1000
    }
]
},
"transportObjects": [
    {
        "transportObjectUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
        "quantity": 1
    }
],
"tags": [
    {
        "tagUid": "d290f1ee-6c54-4b01-90e6-d701748f0851"
    }
],
"tripAdditionalInfo": {
    "flightNumber": "OU481",
    "flightTime": "19:00",
    "flightDestination": "Amsterdam",
    "roomNumber": "512"
},
"note": "This is trip message",
"debtor": {
    "debtorUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "contactPhoneNumber": "+385914672930",
    "contactEmail": "john.doe@company.com",
    "contactPerson": "Jane Doe",

```

```

"referenceNumber": "89152",
"debtorOverrideInformation": {
  "companyName": "Corp d.o.o",
  "contact": "Jane Doe",
  "address": {
    "locationName": "Pivnica Medvegrad",
    "streetName": "Ilica",
    "streetHouseNumber": "50",
    "streetHouseNumberAddition": "A",
    "postCode": "10000",
    "cityName": "Zagreb",
    "countryCode": "hr",
    "countryName": "Hrvatska"
  },
  "phoneNumber": "+385123456798",
  "email": "jane.doe@example.com",
  "chamberOfCommerceNumber": "56583052",
  "invoiceSendType": "EMAIL",
  "invoiceAddress": {
    "locationName": "Pivnica Medvegrad",
    "streetName": "Ilica",
    "streetHouseNumber": "50",
    "streetHouseNumberAddition": "A",
    "postCode": "10000",
    "cityName": "Zagreb",
    "countryCode": "hr",
    "countryName": "Hrvatska"
  },
  "invoiceEmail": "jane.doe@example.com"
},
"principal": {
  "principalUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "contactPhoneNumber": "+385914672930",
  "contactEmail": "john.doe@company.com",
  "contactPerson": "Jane Doe",
  "referenceNumber": "89152"
},
"fixedTripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"routePolyline": "fXh7e0hjcGlad0BrSE1vQWlKdERjRHZBY0BFTVNTUVVFTT9RRE9ITVBXPgDackFHSHVAZkBXrHZBWU55QGZAU1RXWk1UZUJUrh1CcEVvQWhDeUZqS3NCcERxQHpaZUBwQG1AaEFraEB3QH

```

```

xEZ0FyRlN6QE1wQVZkQmxAck9GfEFLakRJakFMakB2QHhDZkF6RXBBekZcdEFiQmhIcEFoR3JAeERWfkFQ
ckJMfENAbkJRdkRzQ2xmQGtAaEpVZkNTYEJRfkBjQHRCaUBoQnNBcERnQXhCbUJsQ2tBfkF5QG5AYURyRH
tDfkRtRWxHe0JkRHNAYEF3Qm5Dd0d+SHtHak19TmZRFUhqSnNSZFV7RXhGY0BmQGdAVE9MbUJwQnVBdEFh
QF×TSmlAUl9ASGNARHFBQUdBR0dVY0BfQHVASVl1QGVDUR7TT9tQWRKX0s=",
  "routeDistance": 6909,
  "routeTime": 752,
  "externalId": "100010",
  "internalNote": "This message is not visible to driver",
  "priceCalculatorResult": {
    "route": {
      "routeUid": "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c",
      "routeDistance": 5000,
      "routeTime": 600
    },
    "customerTariff": {
      "tariffUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
      "data": {
        "name": "Airport tariff",
        "tariffType": "FIXED_PRICE",
        "productUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
        "displayName": "Airport tariff",
        "vat": 2550,
        "isHail": false,
        "paymentTypes": [
          "TRIP_TARIFF_PAYMENT_TYPE_CASH"
        ],
        "pickupPoiGeofenceUids": [
          "ea3f223b-3666-488a-ba04-57faa9aaa4de"
        ],
        "dropoffPoiGeofenceUids": [
          "ea3f223b-3666-488a-ba04-57faa9aaa4de"
        ],
        "validFromDatetime": "2017-01-01T00:00:00.000Z",
        "validToDatetime": "2018-01-01T00:00:00.000Z",
        "distanceRangeStart": 50000,
        "distanceRangeEnd": 100000,
        "pricePlanType": "REGULAR",
        "pricePlan": {
          "pricePlanUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
          "name": "Airport tariff 1-4 persons",
          "displayName": "Airport tariff 1-4 persons",
          "vehicleTypeUids": [

```

```

        "d290f1ee-6c54-4b01-90e6-d701748f0851"
    ],
    "assignmentVehicleTypeUids": [
        "d290f1ee-6c54-4b01-90e6-d701748f0851"
    ],
    "vehicleCategoryTagUids": [
        "d290f1ee-6c54-4b01-90e6-d701748f0851"
    ],
    "pricePlanTimeframes": [
        {
            "onMonday": true,
            "onTuesday": true,
            "onWednesday": true,
            "onThursday": true,
            "onFriday": true,
            "onSaturday": true,
            "onSunday": true,
            "onHoliday": true,
            "timeframeStartTime": "07:30",
            "timeframeEndTime": "09:30"
        }
    ],
    "regularPricePlan": {
        "startAmount": 285,
        "pricesPerKm": [
            {
                "distanceRangeStart": 50000,
                "distanceRangeEnd": 100000,
                "amount": 175
            }
        ],
        "drivePerHourAmount": 35,
        "minimumTotalAmount": 500
    },
    "fixedPricePricePlan": {
        "amount": 1000
    },
    "distanceBasedPricePlan": {
        "startAmount": 285,
        "distanceIncludedInStart": 1000,
        "waitPerHourAmount": 66,

```

```

        "pricePerKm": 155,
        "minimumTotalAmount": 500,
        "thresholdVelocityKmPerHour": 0,
        "denominationAmount": 50
    },
    "timeBasedPricePlan": {
        "startAmount": 285,
        "drivePerHourAmount": 35,
        "minutesIncludedInStart": 1000,
        "minimumTotalAmount": 500,
        "denominationAmount": 50
    },
    "totalPricePerKmRangePricePlan": {
        "pricesPerKm": [
            {
                "distanceRangeStart": 50000,
                "distanceRangeEnd": 100000,
                "amount": 175
            }
        ]
    },
    "isDebtorTariff": false,
    "forReservationType": "ALL"
},
"tariffFor": "CUSTOMER"
},
"customerAmounts": {
    "amountStart": 1000,
    "amountPerHourList": [
        {
            "timeRangeStart": 0,
            "timeRangeEnd": 30,
            "amountPerHour": 1000,
            "time": 30,
            "amountTotal": 1770
        }
    ],
    "amountByTimeTotal": 1770,
    "amountPerKmList": [
        {

```

```

        "distanceRangeStart": 0,
        "distanceRangeEnd": 2000,
        "amountPerKm": 100,
        "distance": 1000,
        "amountTotal": 100
    }
],
"amountByDistanceTotal": 100,
"amountBase": 1870,
"amountPaymentExtras": [
    {
        "paymentExtraUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
        "quantity": 2,
        "amount": 500,
        "amountTotal": 1000,
        "addedByPriceCalculator": false
    }
],
"amountPaymentExtrasTotal": 1000,
"amountPaymentDiscounts": [
    {
        "paymentDiscountUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
        "quantity": 2,
        "amount": 500,
        "amountTotal": 1000,
        "percentage": 1000,
        "percentageTotal": 2000,
        "addedByPriceCalculator": false
    }
],
"amountPaymentDiscountsTotal": 1000,
"percentagePaymentDiscountsTotal": 2000,
"amountTotal": 4870,
"amountMinimum": 2000
},
"customerContributionTariff": {
    "tariffUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
    "data": {
        "name": "Airport tariff",
        "tariffType": "FIXED_PRICE",
        "productUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",

```

```
"displayName": "Airport tariff",
"vat": 2550,
"isHail": false,
"paymentTypes": [
  "TRIP_TARIFF_PAYMENT_TYPE_CASH"
],
"pickupPoiGeofenceUids": [
  "ea3f223b-3666-488a-ba04-57faa9aaa4de"
],
"dropoffPoiGeofenceUids": [
  "ea3f223b-3666-488a-ba04-57faa9aaa4de"
],
"validFromDatetime": "2017-01-01T00:00:00.000Z",
"validToDatetime": "2018-01-01T00:00:00.000Z",
"distanceRangeStart": 50000,
"distanceRangeEnd": 100000,
"pricePlanType": "REGULAR",
"pricePlan": {
  "pricePlanUid": "d290flee-6c54-4b01-90e6-d701748f0851",
  "name": "Airport tariff 1-4 persons",
  "displayName": "Airport tariff 1-4 persons",
  "vehicleTypeUids": [
    "d290flee-6c54-4b01-90e6-d701748f0851"
  ],
  "assignmentVehicleTypeUids": [
    "d290flee-6c54-4b01-90e6-d701748f0851"
  ],
  "vehicleCategoryTagUids": [
    "d290flee-6c54-4b01-90e6-d701748f0851"
  ],
  "pricePlanTimeframes": [
    {
      "onMonday": true,
      "onTuesday": true,
      "onWednesday": true,
      "onThursday": true,
      "onFriday": true,
      "onSaturday": true,
      "onSunday": true,
      "onHoliday": true,
      "timeframeStartTime": "07:30",
```

```

        "timeframeEndTime": "09:30"
    }
],
"regularPricePlan": {
    "startAmount": 285,
    "pricesPerKm": [
        {
            "distanceRangeStart": 50000,
            "distanceRangeEnd": 100000,
            "amount": 175
        }
    ],
    "drivePerHourAmount": 35,
    "minimumTotalAmount": 500
},
"fixedPricePricePlan": {
    "amount": 1000
},
"distanceBasedPricePlan": {
    "startAmount": 285,
    "distanceIncludedInStart": 1000,
    "waitPerHourAmount": 66,
    "pricePerKm": 155,
    "minimumTotalAmount": 500,
    "thresholdVelocityKmPerHour": 0,
    "denominationAmount": 50
},
"timeBasedPricePlan": {
    "startAmount": 285,
    "drivePerHourAmount": 35,
    "minutesIncludedInStart": 1000,
    "minimumTotalAmount": 500,
    "denominationAmount": 50
},
"totalPricePerKmRangePricePlan": {
    "pricesPerKm": [
        {
            "distanceRangeStart": 50000,
            "distanceRangeEnd": 100000,
            "amount": 175
        }
    ]
}

```

```

        ]
    }
},
"isDebtorTariff": false,
"forReservationType": "ALL"
},
"tariffFor": "CUSTOMER"
},
"customerContributionPercentage": 10000,
"customerContributionAmounts": {
    "amountStart": 1000,
    "amountPerHourList": [
        {
            "timeRangeStart": 0,
            "timeRangeEnd": 30,
            "amountPerHour": 1000,
            "time": 30,
            "amountTotal": 1770
        }
    ],
    "amountByTimeTotal": 1770,
    "amountPerKmList": [
        {
            "distanceRangeStart": 0,
            "distanceRangeEnd": 2000,
            "amountPerKm": 100,
            "distance": 1000,
            "amountTotal": 100
        }
    ],
    "amountByDistanceTotal": 100,
    "amountBase": 1870,
    "amountPaymentExtras": [
        {
            "paymentExtraUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
            "quantity": 2,
            "amount": 500,
            "amountTotal": 1000,
            "addedByPriceCalculator": false
        }
    ],
}

```

```

    "amountPaymentExtrasTotal": 1000,
    "amountPaymentDiscounts": [
      {
        "paymentDiscountUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
        "quantity": 2,
        "amount": 500,
        "amountTotal": 1000,
        "percentage": 1000,
        "percentageTotal": 2000,
        "addedByPriceCalculator": false
      }
    ],
    "amountPaymentDiscountsTotal": 1000,
    "percentagePaymentDiscountsTotal": 2000,
    "amountTotal": 4870,
    "amountMinimum": 2000
  }
},
"vehicleTypeUids": [
  "d290f1ee-6c54-4b01-90e6-d701748f0851"
],
"vehicleTypeGroupUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"extraDispatchTimeSeconds": 0,
"customerTariff": {
  "tariffUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "pricePlanUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
  "customerPercentage": 3000,
  "customerFixAmountCents": 5000,
  "userProvidedCustomerFixAmountCents": 4500,
  "tariffPaymentType": "TRIP_TARIFF_PAYMENT_TYPE_CASH"
},
"zoneCount": 2
},
"refTripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"returnFromTripUid": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"isPrivateTrip": false,
"callUid": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}

```

## 2.2.6 CUSTOMER APP (BACKEND) – TARIFF SERVICE

The service fetches tariffs from inITS microservice `/tariffs/{tariffUid}` and returns them to the user application.

This is the call:

tariff retrieved

- Example Value
- Model

```
{
  "tariffUid": "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c",
  "organizationUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
  "tariffFor": "CUSTOMER",
  "data": {
    "name": "Airport tariff",
    "tariffType": "FIXED_PRICE",
    "productUids": [
      "ea3f223b-3666-488a-ba04-57faa9aaa4de"
    ],
    "displayName": "Airport tariff",
    "vat": 2550,
    "isHail": false,
    "paymentTypes": [
      "TRIP_TARIFF_PAYMENT_TYPE_CASH"
    ],
    "pickupPoiGeofenceUids": [
      "ea3f223b-3666-488a-ba04-57faa9aaa4de"
    ],
    "dropoffPoiGeofenceUids": [
      "ea3f223b-3666-488a-ba04-57faa9aaa4de"
    ],
    "validFromDatetime": "2017-01-01T00:00:00.000Z",
    "validToDatetime": "2018-01-01T00:00:00.000Z",
    "distanceRangeStart": 50000,
    "distanceRangeEnd": 100000,
    "forReservationType": "ALL",
    "pricePlanType": "REGULAR",
    "pricePlans": [
```

```

{
  "pricePlanUid": "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c",
  "name": "Airport tariff 1-4 persons",
  "displayName": "Airport tariff 1-4 persons",
  "vehicleTypeUids": [
    "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c"
  ],
  "assignmentVehicleTypeUids": [
    "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c"
  ],
  "vehicleCategoryTagUids": [
    "871a45c6-7b3d-4574-8a9b-a6ad7681dd1c"
  ],
  "pricePlanTimeframes": [
    {
      "onMonday": true,
      "onTuesday": true,
      "onWednesday": true,
      "onThursday": true,
      "onFriday": true,
      "onSaturday": true,
      "onSunday": true,
      "onHoliday": true,
      "timeframeStartTime": "07:30",
      "timeframeEndTime": "09:30",
      "timeframeStartTimeWithOffset": "22:00+01:00",
      "timeframeEndTimeWithOffset": "02:00+01:00"
    }
  ],
  "regularPricePlan": {
    "startAmount": 285,
    "pricesPerKm": [
      {
        "distanceRangeStart": 50000,
        "distanceRangeEnd": 100000,
        "amount": 175
      }
    ]
  }
}

```

```

    }
  ],
  "drivePerHourAmount": 35,
  "minimumTotalAmount": 500,
  "minimumPriceRangePercentage": 10,
  "maximumPriceRangePercentage": 12.5
},
"fixedPricePricePlan": {
  "amount": 1000
},
"distanceBasedPricePlan": {
  "startAmount": 285,
  "distanceIncludedInStart": 1000,
  "waitPerHourAmount": 66,
  "pricePerKm": 155,
  "minimumTotalAmount": 500,
  "thresholdVelocityKmPerHour": 0,
  "denominationAmount": 50,
  "maxPriceType": "NO_MAX_PRICE",
  "maxPriceToleranceFactor": 1.2,
  "timeCalculateType": "BASED_ON_VELOCITY",
  "minimumPriceRangePercentage": 10,
  "maximumPriceRangePercentage": 12.5
},
"timeBasedPricePlan": {
  "startAmount": 285,
  "drivePerHourAmount": 35,
  "minutesIncludedInStart": 1000,
  "minimumTotalAmount": 500,
  "denominationAmount": 50,
  "minimumPriceRangePercentage": 10,
  "maximumPriceRangePercentage": 12.5
},
"totalPricePerKmRangePricePlan": {
  "pricesPerKm": [
    {

```

```

        "distanceRangeStart": 50000,
        "distanceRangeEnd": 100000,
        "amount": 175
    }
],
    "minimumPriceRangePercentage": 10,
    "maximumPriceRangePercentage": 12.5
},
    "zoneBasedPricePlan": {
        "amountPerZone": 175
    },
    "note": "Price plan description",
    "description": "arbitrary text"
}
],
    "isDebtorTariff": false,
    "note": "Tariff description",
    "minTimeBeforePickupForReservationFlagSeconds": 300,
    "userApis": [
        {
            "userApiUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de",
            "productUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de"
        }
    ],
    "isUserApiTariff": false,
    "currencyCode": "EUR",
    "currencySymbol": "€",
    "description": "arbitrary text",
    "partnerCentralServiceUid": "ea3f223b-3666-488a-ba04-57faa9aaa4de"
},
    "status": "CREATED"
}

```

### 3. TENDER

Tenderer confirms that he offers the required services described in item 2. TECHNICAL DESCRIPTION OF THE Annex IV – Technical description for Group 1, by submitting signed and certified Annex IV – Technical description for Group 1.

FOR TENDERER:

At \_\_\_\_\_, on \_\_\_\_\_

LS \_\_\_\_\_

*(first name, last name, title and signature of authorized person)*