



# Toll Company endpoint analysis

TL21-21 is a web app who's goal is to achieve interoperability between the Toll Stations of the Greek highway system. It allows easy access for toll company employees to add recorded events and offers quick processing of information.

## Environmental Variables:

Environmental Variable Name	Description
baseurl	The URL to the server's api. (https://localhost:9103/interoperability/api (https://localhost:9103/interoperability/api) in our case)

## GET PassesPerStation

```
https://localhost:9103/interoperability/api/PassesPerStation/AO10/20201001/20201131
```

Passes per Station returns all the passes that happened in a station in a certain time frame.

To use the Passes per Station command you want to insert the command /PassesPerStation to the base url, then the toll company (/station) and the time frame you care about in YYYYMMDD format (start\_day/end\_day). Hence the url should look something like this:

```
https://localhost:9103/interoperability/api/PassesPerStation/AO10/20201001/20201031  
(https://localhost:9103/interoperability/api/PassesPerStation/AO10/20201001/20201031%60)
```

Example Request

PassesPerStation ▼

```
curl --location --request GET 'https://localhost:9103/interoperability/api/PassesPerStation/AI
```

Example Response

200 OK

Body      Header (10)



```
{
  "Station": "A010",
  "StationOperator": "aodos",
  "RequestTimestamp": "2022-02-25 20:44:55",
  "PeriodFrom": "2020-10-01 00:00:00",
  "PeriodTo": "2020-10-31 00:00:00",
  "NumberOfPasses": 4,
  "PassesList": [
    {
      "PassIndex": 1,
```

[View More](#)

## GET PassesAnalysis

```
https://localhost:9103/interoperability/api/PassesAnalysis/AO/GF/20200101/20201031
```

Passes Analysis returns all the passes that happened in a station (station1) from the vehicles registered at another station (station2) in a certain time frame.

To use the Passes Analysis command you want to insert the command /PassesAnalysis to the base url, then the toll companies (/station1/station2) and the time frame you care about in YYYYMMDD format (/start\_day/end\_day). Hence the url should look something like this:

```
https://localhost:9103/interoperability/api/PassesAnalysis/AO/GF/20200101/20201031
```

### Example Request

PassesAnalysis

```
curl --location --request GET 'https://localhost:9103/interoperability/api/PassesAnalysis/AO/GF/20200101/20201031'
```

### Example Response

200 OK

Body Header (10)

```
{
  "op1_ID": "A0",
  "op2_ID": "GF",
  "RequestTimestamp": "2022-02-25 16:39:01",
  "PeriodFrom": "2020-01-01 00:00:00",
  "PeriodTo": "2020-10-31 00:00:00",
  "NumberOfPasses": 103,
  "PassesList": [
    {
      "PassIndex": 1,
```

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## GET PassesCost

```
https://localhost:9103/interoperability/api/PassesCost/AO/EG/20200101/20201231
```

Passes Analysis returns the sum of all the passes that happened in a station (station1) from the vehicles registered at another station (station2) in a certain time frame.

To use the Passes Analysis command you want to insert the command /PassesCost o the base url, then the toll companies (/station1/station2) and the time frame you care about in YYYYMMDD format (/start\_day/end\_day). Hence the url should look something like this:

```
https://localhost:9103/interoperability/api/PassesCost/AO/EG/20200101/20201231  
(https://desktop.postman.com/?desktopVersion=9.13.0&userId=19708200&teamId=0)
```

Example Request

PassesCost

```
curl --location --request GET 'https://localhost:9103/interoperability/api/PassesCost/AO/EG/20200101/20201231'
```

Example Response

200 OK

Body Header (10)

```
{  
  "op1_ID": "AO",  
  "op2_ID": "EG",  
  "RequestTimestamp": "2022-02-25 16:42:54",  
  "PeriodFrom": "2020-01-01",  
  "PeriodTo": "2020-12-31",  
  "NumberOfPasses": 102,  
  "PassesCost": 285.6  
}
```

[View More](#)

## GET ChargesBy

```
https://localhost:9103/interoperability/api/ChargesBy/GF/20190101/20190630
```

Charges By returns the sum of all passes that happened in a station by vehicles registered to other toll companies in a certain time frame.

To use the Charges By command you want to insert the command /ChargesBy to the base url, then the

toll company (/station) and the time frame you care about in YYYYMMDD format (start\_day/end\_day).  
Hence the url should look something like this:

Documentation Settings ▼

https://localhost:9103/interoperability/api/ChargesBy/GF/20190101/20190630  
(https://localhost:9103/interoperability/api/ChargesBy/GF/20190101/20190630%60)

#### Example Request

ChargesBy

```
curl --location --request GET 'https://localhost:9103/interoperability/api/ChargesBy/GF/20190101/20190630%60'
```

#### Example Response

200 OK

Body Header (10)

```
{
  "op_ID": "GF",
  "RequestTimestamp": "2022-02-25 20:36:12",
  "PeriodFrom": "2019-01-01 00:00:00",
  "PeriodTo": "2019-06-30 00:00:00",
  "PPOList": [
    {
      "VisitingOperator": "A0",
      "NumberOfPasses": 2,
      "PassesCost": 26
```

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## GET Settlements

```
https://localhost:9103/interoperability/api/Settlements/KO
```

Settlements returns the differences of income between passes that happened in a toll station by all other toll companies and the opposite one by one.

To use the Charges By command you want to insert the command /Settlements to the base url and then the toll company (/station). Hence the url should look something like this:

https://localhost:9103/interoperability/api/Settlements/GF  
(https://localhost:9103/interoperability/api/ChargesBy/GF/20190101/20190630%60)

#### Example Request

Settlements

```
curl --location --request GET 'https://localhost:9103/interoperability/api/Settlements/KO'
```

Body      Header (10)

```
[
  {
    "Operator": "A0",
    "Status": "You owe them",
    "Amount": 574.55
  },
  {
    "Operator": "GF",
    "Status": "They owe you",
    "Amount": 181.35
  }
]
```

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