

	AB „LIETUVOS GELEŽINKELIAI“
<i>API v2</i> <i>Project: DE025 - Įspėjamųjų lapelių duomenų perdavimas (MILIS)</i>	Version 1.0 Author Jaroslav Belskij Date 2021-04-20

Įspėjamųjų lapelių duomenų perdavimas (MILIS) API v2

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AUTHORISATION

Approval of this document indicates the mandated purpose, composition, derivation, format, presentation, and quality criteria of this document.

Program Manager

_____ [Date]

Document Owner

_____ [Date]

VERSION CONTROL

Date	Version No.	Comments
2021-04-27	1	First Document Draft

DISTRIBUTION LIST

Title	Name

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- **DOCUMENT SUMMARY**

- 1.1 **PURPOSE**

The goal of API v2 document is describe services and methods needed for Milis v2 implementation.

This document is providing a detailed description of API methods for MILIS project.

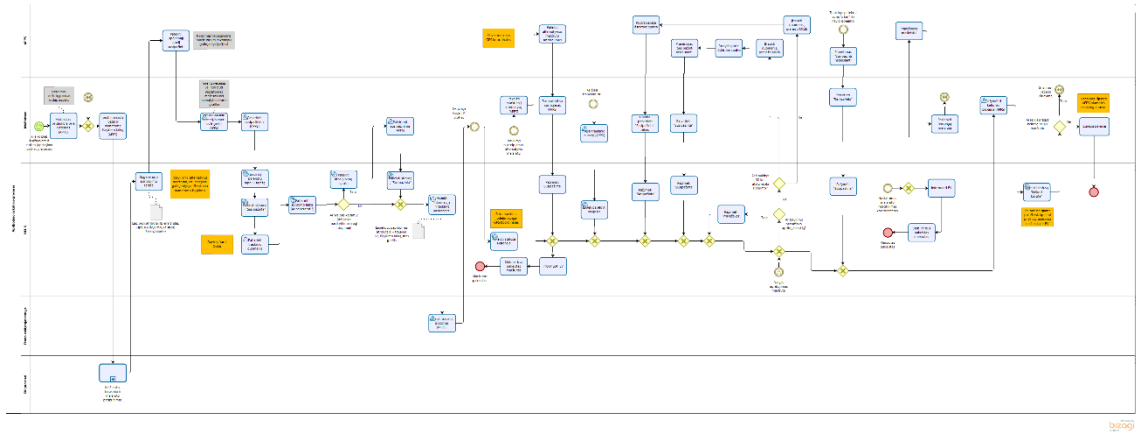
- **INTRODUCTION**

MILIS project goal is digitize the transmission of traffic situation and restriction alerts, thus ensuring the security of the infrastructure and avoiding the use of paper in the process:

- 3 Digitized and implemented transmission of alert information;
- 4 Programmed and operational new traffic alert and restriction alert system with ITC assistance;
- 5 The system will have integration with the traffic management system;
- 6 Equivalent data transmission to all carriers is ensured, they will be responsible for data transmission to their driver;
- 7 Old MILIS – turn off.

• **BUSINESS FLOW**

<https://lgt.sharepoint.com/sites/DE025spjamjlapeliduomenperdavimas/Bendrai%20naudojami%20dokumentai/General/1%20Informacija%20suinteresuotoms%20%C5%A1alims/Procesai/MILIS%20procesai%2011%2010%20plan%C5%A1et%C4%97.png>



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- **API services and methods**

API services and methods description was created with Swagger Editor

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POST /trip

Create a new Trip. (tripPost)

Trip is main entity for Milis system. During the trip train driver gets all warnings

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body `TripRequestModel` (required)

Body Parameter –

example: {

```

    "trainId" : 112,
    "driverId" : 256,
    "routeId" : 400,
    "startStationId" : 122,
    "plannedDepartureTime" : "2021-04-27 15:06"
  }

```

Return type

`CreateModelResponse`

Example data

Content-Type: application/json

```

{
  "id" : "id",
  "errors" : {
    "total" : 0,
    "errors" : [ "errors", "errors" ]
  }
}

```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success `CreateModelResponse`

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GET /trip/{id}

Get the Trip information. (**tripIdGet**)

Trip contains information about Trip, Train, Driver, Route

Path parameters

id (required)

Path Parameter – Trip identificator format: int32

Return type

TripModel

Example data

Content-Type: application/json

```
{
  "route" : {
    "beginStation" : {
      "name" : "name",
      "id" : "id"
    },
    "name" : "name",
    "duration" : 0,
    "id" : "id"
  },
  "trainDriver" : {
    "driverId" : "driverId"
  },
  "train" : {
    "number" : "number",
    "trainType" : {
      "name" : "name",
      "id" : "id"
    },
    "tractionType" : {
      "name" : "name",
      "id" : "id"
    },
    "id" : "id"
  }
}
```

Produces

- application/json

Responses

	AB „LIETUVOS GELEŽINKELIAI“
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200
Success [TripModel](#)

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GET /trip/{id}/warnings

Get all Warnings related to the Trip. (**tripIdWarningsGet**)

Warnings depends on Trip, Train and Route

Path parameters

id (required)

Path Parameter – Trip identificator format: int32

Return type

WarningsResponseModel

Example data

Content-Type: application/json

```
{
  "total" : 1,
  "warnings" : [ {
    "readed" : true,
    "passed" : true,
    "incident" : {
      "place" : "place",
      "incidentId" : 6,
      "type" : "type",
      "message" : "message"
    },
    "warningId" : 0
  }, {
    "readed" : true,
    "passed" : true,
    "incident" : {
      "place" : "place",
      "incidentId" : 6,
      "type" : "type",
      "message" : "message"
    },
    "warningId" : 0
  } ]
}
```

Produces

application/json

Responses

200

Success **WarningsResponseModel**

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POST /trip/{id}/readyToStart

Ready to start the Trip. (**tripIdReadyToStartPost**)

When Train Driver reports that it is ready, Station Watchman could allow to start a Trip

Path parameters

id (required)

Path Parameter – Trip identificator format: int32

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

	AB „LIETUVOS GELEŽINKELIAI“
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POST /trip/{id}/start

Start the Trip (**tripIdStartPost**)

Post message by Station Watchman about beginning a Trip.

Path parameters

id (required)

Path Parameter – Trip identifier format: int32

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

	AB „LIETUVOS GELEŽINKELIAI“
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POST /trip/{id}/finish

Finish the Trip (**tripIdFinishPost**)

Post message by Train Driver about finishing a Trip.

Path parameters

id (required)

Path Parameter – Trip identificator format: int3

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

	AB „LIETUVOS GELEŽINKELIAI“
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POST /trip/{id}/changeRoute

Change Route (tripIdChangeRoutePost)

Change Route to some alternative starting from some Station.

Path parameters

id (required)

Path Parameter – Trip identificator format: int32

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body ChangeRouteRequestModel (required)

Body Parameter –

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

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POST /trip/{id}/changeTrainNumber

Change Train Number (**tripIdChangeTrainNumberPost**)

Change Train Number to another one starting from some Station.

Path parameters

id (required)

Path Parameter – format: int32

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body ChangeTrainNumberRequestModel (required)

Body Parameter –

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

	AB „LIETUVOS GELEŽINKELIAI“
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POST /warning/{id}/markAsPassed

(warningIdMarkAsPassedPost)

Path parameters

id (required)

Path Parameter – format: int32

Return type

CommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ "errors", "errors" ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **CommandResponse**

	AB „LIETUVOS GELEŽINKELIAI“
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POST /warnings/markAsRead

Mark list of Warnings as readed by Train Driver (**warningsMarkAsReadPost**)
 Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body **MarkAsReadWarningsRequestModel** (optional)

Body Parameter –

Return type

MultipleItemsCommandResponse

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "errors" : [ {
    "itemId" : "itemId",
    "error" : "error"
  }, {
    "itemId" : "itemId",
    "error" : "error"
  } ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **MultipleItemsCommandResponse**

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POST /position

Set Train GPS position in Milis. (**positionPost**)

Consumes

This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body [PositionRequestModel](#) (optional)

Body Parameter –

Return type

CreateModelResponse

Example data

Content-Type: application/json

```
{
  "id" : "id",
  "errors" : {
    "total" : 0,
    "errors" : [ "errors", "errors" ]
  }
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success [CreateModelResponse](#)

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GET /routes

(routesGet)

Return type

RoutesResponseModel

Example data

Content-Type: application/json

```
{
  "routes" : [ {
    "beginStation" : {
      "name" : "name",
      "id" : "id"
    },
    "name" : "name",
    "duraton" : 0,
    "id" : "id"
  }, {
    "beginStation" : {
      "name" : "name",
      "id" : "id"
    },
    "name" : "name",
    "duraton" : 0,
    "id" : "id"
  } ],
  "total" : 0
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **RoutesResponseModel**

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GET /routes/{id}

(routesIdGet)

Path parameters

id (required)

Path Parameter – Route Id

Return type

RouteModel

Example data

Content-Type: application/json

```
{
  "beginStation" : {
    "name" : "name",
    "id" : "id"
  },
  "name" : "name",
  "duraton" : 0,
  "id" : "id"
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **RouteModel**

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GET /stations

(stationsGet)

Return type

StationsResponseModel

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "stations" : [ {
    "name" : "name",
    "id" : "id"
  }, {
    "name" : "name",
    "id" : "id"
  } ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **StationsResponseModel**

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GET /stations/{id}

(stationsIdGet)

Path parameters

id (required)

Path Parameter – Station Id

Return type

StationModel

Example data

Content-Type: application/json

```
{
  "name" : "name",
  "id" : "id"
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **StationModel**

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GET /stations/{routeId}

(stationsRouteIdGet)

Path parameters

routeId (required)

Path Parameter – RouteId

Return type

StationsResponseModel

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "stations" : [ {
    "name" : "name",
    "id" : "id"
  }, {
    "name" : "name",
    "id" : "id"
  } ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **StationsResponseModel**

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GET /train/{number}

(trainNumberGet)

Path parameters

number (required)

Path Parameter – Train number

Return type

TrainModel

Example data

Content-Type: application/json

```
{
  "number" : "number",
  "trainType" : {
    "name" : "name",
    "id" : "id"
  },
  "tractionType" : {
    "name" : "name",
    "id" : "id"
  },
  "id" : "id"
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **TrainModel**

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GET /traintypes

(traintypesGet)

Return type

TrainTypesResponseModel

Example data

Content-Type: application/json

```
{
  "total" : 0,
  "trainTypes" : [ {
    "name" : "name",
    "id" : "id"
  }, {
    "name" : "name",
    "id" : "id"
  } ]
}
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses

200

Success **TrainTypesResponseModel**

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ChangeRouteRequestModel

oldRouteId (optional)
String
newRouteId (optional)
String
changeStationId (optional)
String

ChangeTrainNumberRequestModel

oldTrainNumber (optional)
String
newTrainNumber (optional)
String
changeStationId (optional)
String

CommandResponse

errors (optional)
array[String]
total (optional)
Integer format: int32

CreateModelResponse

id (optional)
String
errors (optional)
CommandResponse

IncidentModel

incidentId (optional)
Integer
place (optional)
String
type (optional)
String
message (optional)
String

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ItemErrorModel

itemId (optional)
String
 error (optional)
String

MarkAsReadWarningsRequestModel

warningIds (optional)
array[String]
 trainDriverId (optional)
String

MultipleItemsCommandResponse

errors (optional)
array[ItemErrorModel]
 total (optional)
Integer format: int32

PositionRequestModel

tripld (optional)
String
 trainId (optional)
String
 positionX (optional)
String
 positionY (optional)
String
 positionTime (optional)
String

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RouteModel

id (optional)
String
 name (optional)
String
 duraton (optional)
Integer
 beginStation (optional)
StationModel
 endStation (optional)
StationModel
 intermediateStation (optional)
StationModel

RoutesResponseModel

routes (optional)
array[RouteModel]
 total (optional)
Integer format: int32
 StationModel **Up**
 id (optional)
String
 name (optional)
String

StationsResponseModel

stations (optional)
array[StationModel]
 total (optional)
Integer format: int32
 TractionTypeModel **Up**
 id (optional)
String
 name (optional)
String

TractionTypesResponseModel **Up**

tractionTypes (optional)
array[TractionTypeModel]
 total (optional)
Integer format: int32

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TrainDriverModel

driverId (optional)
String

TrainModel

id (optional)
String
 number (optional)
String
 trainType (optional)
TrainTypeModel
 tractionType (optional)
TractionTypeModel

TrainTypeModel

id (optional)
String
 name (optional)
String

TrainTypesResponseModel

trainTypes (optional)
array[TrainTypeModel]
 total (optional)
Integer format: int32

TripModel

train (optional)
TrainModel
 trainDriver (optional)
TrainDriverModel
 route (optional)
RouteModel
 station (optional)
StationModel

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TripRequestModel

trainId (optional)
String
 driverId (optional)
String
 routeId (optional)
String
 startStationId (optional)
String
 plannedDepartureTime (optional)
String

WarningModel

warningId (optional)
Integer
 incident (optional)
IncidentModel
 readed (optional)
Boolean
 passed (optional)
Boolean

WarningsResponseModel

warnings (optional)
array[WarningModel]
 total (optional)
Integer format: int32